

**APPENDIX 1.1 – STATEMENTS OF AUTHORITY TO PARTICIPATE**

# Statement of Authority - Participating

## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the Township of Aberdeen has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: John Powers and Robert Brady ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality *Aberdeen Township*

Name & Title of Authorizing Individual *Holly Reycraft, Township Manager*

Authorizing Signature and Date *Holly Reycraft* 7/11/12

Representative's Name & Title *John T. Powers, OEM Coordinator*

Representative's Address *One Aberdeen Square, Aberdeen, NJ 07747*

Representative's Phone, Fax and Email *732-583-4200 ext. 221, 732-583-7058, john.powers@aberdeennj.org*

X

Alternate's Name & Title *Robert Brady, Director of Public Works*

Alternate's Address *One Aberdeen Square, Aberdeen, NJ 07747*

Alternate's Phone, Fax and Email *732-583-4200 ext. 400, 732-290-3171, bob.brady@aberdeennj.org*

X

## Statement of Authority - Participating

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

**Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator**

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the Borough of Allenhurst has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Chief Robert C. Richter and Captain Michael B. Schneider ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality: ALLENHURST BOROUGH

Name & Title of Authorizing Individual: Robert C. Richter - Chief of Police

Authorizing Signature and Date Robert Richter 7/23/2012

Representative's Name & Title: Robert C. Richter

Representative's Address: 125 Corlies Avenue Allenhurst, NJ 07711

Representative's Phone, Fax and Email: 732-531-2255, 732-531-2258, chiefrichter@allenhurstnj.org

Alternate's Name & Title: Michael B. Schneider - Captain of Police

Alternate's Address: 125 Corlies Avenue Allenhurst, NJ 07711

Alternate's Phone, Fax and Email: 732-531-2255, 732-531-2258,

### Statement of Authority - Participating

## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of Allentown Borough has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Lt. Daniel Panckeri and Stuart Fierstein ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality Borough of Allentown

Name & Title of Authorizing Individual Stuart Fierstein Mayor

Authorizing Signature and Date [Signature] 9/17/12

Representative's Name & Title Stuart Fierstein

Representative's Address PO Box 487 Allentown NJ 08501

Representative's Phone, Fax and Email 609-259-3151 juliemartin1@verizon.net

Alternate's Name & Title Daniel Panckeri

Alternate's Address PO Box 487 Allentown NJ 08501

Alternate's Phone, Fax and Email 609-259-3491 Fax 609-259-1293 E-mail DPanckeri@corast.net

Statement of Authority - Participating

**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update - 2012**

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator

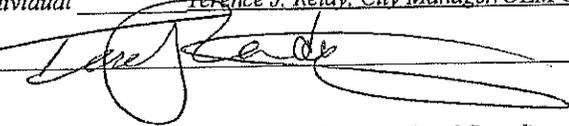
This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of Asbury Park has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Kevin Keddy and Joe Cunha ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality Asbury Park

Name & Title of Authorizing Individual Terence J. Reidy, City Manager/OEM Coordinator

Authorizing Signature and Date 

Representative's Name & Title D. Kevin Keddy, Fire Chief/Deputy OEM Coordinator

Representative's Address 800 Main Street, Asbury Park NJ, 07712

Representative's Phone, Fax and Email Office: (732)502-0186, Mobile: (848)207-0534, Fax: (732)775-7681,  
Email: Kevin.Keddy@cityofasburypark.com

Alternate's Name & Title Joe Cunha, City Engineer/Director of Public Works

Alternate's Address 9 Main Street, Asbury Park NJ, 07712

Alternate's Phone, Fax and Email Office: (732)775-0900, Mobile: (908)692-5624, Fax: (732)775-8169;  
Email: Joe.Cunha@cityofasburypark.com

X

X

## Statement of Authority - Participating

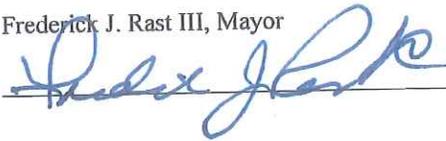
### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the Borough of Atlantic Highlands **has opted to participate** in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Adam Hubeny and Richard White ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

<i>Name of Municipality:</i>	Borough of Atlantic Highlands
<i>Name &amp; Title of Authorizing Individual:</i>	Frederick J. Rast III, Mayor
<i>Authorizing Signature and Date:</i>	
<i>Representative's Name &amp; Title:</i>	Adam Hubeny, OEM Coordinator / Borough Administrator
<i>Representative's Address:</i>	100 First Avenue, Atlantic Highlands, NJ 07716
<i>Representative's Phone, Fax and Email:</i>	732-291-1444 x3101 / 732-291-9725 / ahubeny@ahnj.com
<i>Alternate's Name &amp; Title:</i>	Richard White
<i>Alternate's Address:</i>	100 First Avenue, Atlantic Highlands, NJ 07716
<i>Alternate's Phone, Fax and Email:</i>	732-904-0194 / 732-291-9725 / rwhitesr@comcast.net

**Statement of Authority - Participating**

**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update - 2012**

**Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator**

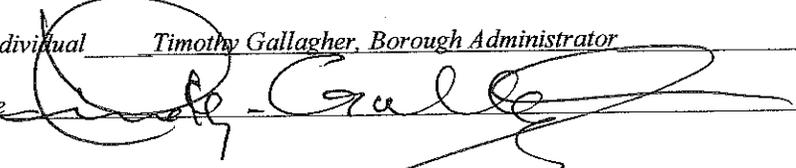
This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the Borough of Avon By The Sea **has opted to participate** in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Kenneth Child, OEM Coordinator and Timothy Gallagher, Borough Administrator, respectively as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality Avon By The Sea

Name & Title of Authorizing Individual Timothy Gallagher, Borough Administrator

Authorizing Signature and Date  7/17/2012

Representative's Name & Title Kenneth Child, OEM Coordinator

Representative's Address 611 Main St Avon, NJ 07717

Representative's Phone, Fax and Email 732 904 6186 kenchild@optonline.net

Alternate's Name & Title Tim Gallagher, Borough Administrator

Alternate's Address 301 Main St Avon, NJ 07717

Alternate's Phone, Fax and Email 732-502-4510 Avonboro@aol.com

Statement of Authority - Participating

Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of BELMAR has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: BILL YOUNG and DENNIS RYAN ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

*cconnolly@boro.belmar.nj.us*      *Colleen Connelly*  
*732 681-9191*

Name of Municipality Belmar

Name & Title of Authorizing Individual Bill Young - Boro Administrator

Authorizing Signature and Date *Bill Young*

Representative's Name & Title DENNIS RYAN COORD. OEM

Representative's Address 6<sup>th</sup> AVE & MAIN ST. BELMAR, NJ 07719

Representative's Phone, Fax and Email 732-904-0175 OEM @ BORO, BELMAR, NJ, US

Alternate's Name & Title Bill Young - Business Admin

Alternate's Address 303 9<sup>th</sup> Ave - Belmar, NJ 07719

Alternate's Phone, Fax and Email 732-272-8588 *WYoung@boro.belmar.nj.us*

Fran Hines Deputy OEM  
*Fhines@boro.belmar.nj.us*

**Statement of Authority - Participating**

**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update - 2012**

**Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator**

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of Bradley Beach has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Norman Goldfarb and Stephen Fahnholz ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

*Name of Municipality: Borough of Bradley Beach NJ*

*Name & Title of Authorizing Individual: Leonard A. Guida, Coordinator*

*Authorizing Signature and Date:*

*Representative's Name & Title: Norman Goldfarb, 1<sup>st</sup>, Deputy Coordinator*

*Representative's Address: 701 Main Street Bradley Beach NJ 07720*

*Representative's Phone, Fax and Email: Phone (732) 775-6900, Fax (732) 774-3108, E-Mail goldline@optonline.net*

*Alternate's Name & Title: Stephen Fahnholz*

*Alternate's Address: 701 Main Street Bradley Beach NJ 07720*

*Alternate's Phone, Fax and Email: Phone (732) 775-6900, Fax (732) 774-3108, E-Mail sfahnholz@bradleybeachpd.com*

# Statement of Authority - Participating

## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

**Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator**

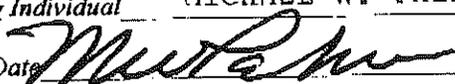
This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of Borough of Brielle has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Chief Michael W. Pamler and Thomas Nolan ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

*Name of Municipality* BOROUGH OF BRIELLE

*Name & Title of Authorizing Individual* MICHAEL W. PALMER, CHIEF OF POLICE

*Authorizing Signature and Date*  8-6-12

*Representative's Name & Title* MICHAEL W. PALMER, CHIEF OF POLICE ✓

*Representative's Address* 601 UNION LANE, BRIELLE, NJ 08730

*Representative's Phone, Fax and Email* 732-528-5050 (Phone); 732-904-5944 (Cell)  
732-528-5057 (fax) mwp141@verizon.net

*Alternate's Name & Title* THOMAS NOLAN, BOROUGH ADMINISTRATOR

*Alternate's Address* 601 UNION LANE, BRIELLE, NJ 08730 ✓

*Alternate's Phone, Fax and Email* 732-528-6600 ext. 100 (phone) 732-528-6677(fax).  
briellesec@bytheshore.com

### Statement of Authority - Participating

## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

**Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator**

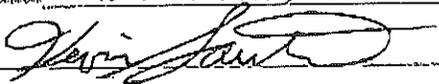
This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of Colts Neck has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Kevin Sauter and Edward Thompson ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality Colts Neck Township

Name & Title of Authorizing Individual Kevin Sauter, OEM Coordinator

Authorizing Signature and Date 

Representative's Name & Title Chief Kevin Sauter, OEM Coordinator

Representative's Address 124 Cedar Drive, Colts Neck, NJ 07722

Representative's Phone, Fax and Email 732-780-7323, 732-462-6240, ksauter@coltsneckpolice.com

Alternate's Name & Title Edward Thompson, Director of Public Works

Alternate's Address 124 Ceadr Drive, Colts Neck, NJ 07722

Alternate's Phone, Fax and Email 732-462-7998, 732-431-3237, coltsneckdpw@gmail.com

**Statement of Authority - Participating**

**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update - 2012**

**Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator**

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the **Borough of Deal** has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: **Chief Stephen Carasia** and **Captain Earl Alexander** ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality: **Borough of Deal**

Name & Title of Authorizing Individual: **Borough Administrator James Rogers**

Authorizing Signature and Date James Rogers 7/31/12

Representative's Name & Title: **Chief Stephen Carasia**

Representative's Address: **190 Norwood Avenue, Deal, New Jersey 07723**

Representative's Phone, Fax and Email: **732-531-1113, 732-531-3231, scarasia@dealpolice.org**

Alternate's Name & Title: Captain Earl Alexander

Alternate's Address: **190 Norwood Avenue, Deal, New Jersey 07723**

Alternate's Phone, Fax and Email: **732-531-1113, 732-531-3231, ealexander@dealpolice.org**

### Statement of Authority - Participating

## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of EATONTOWN has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: William MEGO and RUDY TRASK ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality Borough of EATONTOWN

Name & Title of Authorizing Individual William MEGO OEM COORDINATOR

Authorizing Signature and Date [Signature]

Representative's Name & Title William A MEGO III

Representative's Address 45 VILLA PLACE ✓

Representative's Phone, Fax and Email 732-904-6950 F- 732-389-7659

Alternate's Name & Title RUDY TRASK DEP. COORDINATOR

Alternate's Address 47 BRAD ST ✓

Alternate's Phone, Fax and Email 732-389-7620 732-389-7659

### Statement of Authority - Participating

## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office

Office of Emergency Management

300 Halls Mill Road

Freehold, New Jersey 07728

Michael E. Oppegaard, Coordinator

Contact: Margaret Murnane, Deputy Coordinator

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, ~~Township~~, City, ~~Village~~) of Englishtown has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Peter Cooke and Tom Herits ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality Borough of Englishtown

Name & Title of Authorizing Individual LAURIE FINGER, Borough Administrator

Authorizing Signature and Date [Signature] 7/31/12

Representative's Name & Title Peter S. Cooke, Jr. OEM Coordinator

Representative's Address 15 main Street, Englishtown, NJ 07726-1544 ✓

Representative's Phone, Fax and Email 732-446-7001 x30 732-786-0212 oem@englishtownnj.com

Alternate's Name & Title Thomas Herits, Borough Engineer ✓

Alternate's Address 331 Newman Springs Road Red Bank NJ 07701

Alternate's Phone, Fax and Email 732-383-1950, 732-383-1984 therits@maserconsulting.com

Statement of Authority - Participating

Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of FAIR HAVEN has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: LT. JOSEPH McGOVERN and SAT JESSE DYKSTRA ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality FAIR HAVEN BOROUGH

Name & Title of Authorizing Individual LT/OEM JOSEPH MCGOVERN

Authorizing Signature and Date [Signature] 7/31/12

Representative's Name & Title JOSEPH MCGOVERN, LT

Representative's Address 35 FISIK ST FAIR HAVEN, NJ 07704 ✓

Representative's Phone, Fax and Email 908-601-3753, 732-747-7431 JMcGOVERN@FHBORO.NJ

Alternate's Name & Title JESSE DYKSTRA, SCT

Alternate's Address 35 FISIK ST, FAIR HAVEN, NJ 07704 X

Alternate's Phone, Fax and Email 908-661-2626, 732-747-7431 JDYKSTRA@FHBORO.NJ

## Statement of Authority - Participating

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road

Freehold, New Jersey 07728

Michael E. Oppegard, Coordinator

Contact: Margaret Murnane, Deputy Coordinator

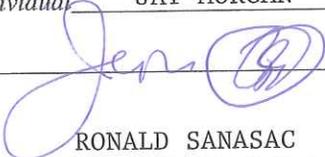
This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of FARMINGDALE has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: RONALD SANASAC and ROBERT HOTMAR ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality FARMINGDALE BOROUGH

Name & Title of Authorizing Individual JAY MORGAN

Authorizing Signature and Date 

Representative's Name & Title RONALD SANASAC

Representative's Address 33 PATTERSON DRIVE, FREEHOLD, NEW JERSEY 07728

Representative's Phone, Fax and Email (732) 904-8601 (732) 938-7411 OEM199@twp.howell.nj.us

Alternate's Name & Title ROBERT HOTMAR

Alternate's Address P.O. BOX 580, HOWELL, NEW JERSEY 07731

Alternate's Phone, Fax and Email (732) 938-4500 (732) 938-7411 rhotmar@twp.howell.nj.us

# Statement of Authority - Participating

## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of FREEHOLD BOROUGH has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: HENRY A. STRYKER III and DANIEL MEGILL ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality FREEHOLD BOROUGH

Name & Title of Authorizing Individual J. Nolan Higgins, Mayor

Authorizing Signature and Date J. Nolan Higgins Aug 10, 2012

Representative's Name & Title HENRY A. STRYKER III OEM COORDINATOR

Representative's Address 51 WEST MAIN STREET FREEHOLD NJ 07728

Representative's Phone, Fax and Email 732-598-7680 / HSTRYKER@FREEHOLDBORO.ORG

Alternate's Name & Title DANIEL MEGILL OEM DEPUTY COORDINATOR

Alternate's Address 51 WEST MAIN STREET FREEHOLD NJ 07728

Alternate's Phone, Fax and Email 732-462-4000 / DMEGILL@FREEHOLDBORO.ORG

**Statement of Authority - Participating**

**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update - 2012**

**Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator**

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the **Township of Freehold has opted to participate** in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: **Raymond Piccolini-Emergency Management Coordinator** and **Timothy White-Township Engineer** ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

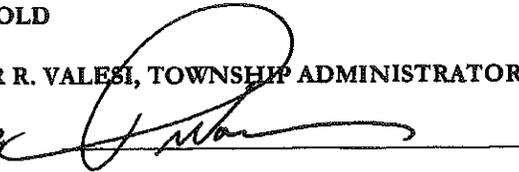
At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

*Name of Municipality*     **TOWNSHIP OF FREEHOLD**

*Name & Title of Authorizing Individual*     **PETER R. VALESI, TOWNSHIP ADMINISTRATOR**

*Authorizing Signature and Date*

**7-31-12**



*Representative's Name & Title*     **RAYMOND PICCOLINI, EMERGENCY MANAGEMENT COORDINATOR**

*Representative's Address*     **TOWNSHIP OF FREEHOLD, 1 MUNICIPAL PLAZA, FREEHOLD, NJ 07728**

*Representative's Phone, Fax and Email*     **732-294-2144, 732-308-9115, rpiccolini@twp.freehold.nj.us**

*Alternate's Name & Title*     **TIMOTHY WHITE, TOWNSHIP ENGINEER**

*Alternate's Address*     **TOWNSHIP OF FREEHOLD, 1 MUNICIPAL PLAZA, FREEHOLD, NJ 07728**

*Alternate's Phone, Fax and Email*     **732-294-2070, 732-431-0449, twhite@twp.freehold.nj.us**

## Statement of Authority - Participating

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of HAZLET has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: THOMAS HORNER and BRIAN VALENTINO ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality HAZLET TOWNSHIP

Name & Title of Authorizing Individual THOMAS HORNER OEM COORDINATOR

Authorizing Signature and Date THH / h 7-19-12

Representative's Name & Title THOMAS HORNER OEM COORDINATOR

Representative's Address 22 BUTTWOOD PL HAZLET ✕

Representative's Phone, Fax and Email 732-865-4591 OEM@HAZLETTWP.ORG

Alternate's Name & Title BRIAN VALENTINO DPT COORDINATOR / TWP ADMINISTRATOR

Alternate's Address 1766 UNION AVE HAZLET

Alternate's Phone, Fax and Email 732-264-1700 EXT 8682 BVALENTINO@HAZLETTWP.ORG ✓

## Statement of Authority - Participating

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of Borough of Highlands has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: David Parker and Tim Hill ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality Borough of Highlands

Name & Title of Authorizing Individual David Parker OEM Coordinator

Authorizing Signature and Date David M Parker 7/23/12

Representative's Name & Title David Parker OEM Coordinator

Representative's Address 17-1 Shore Drive Highlands, NJ 07732

Representative's Phone, Fax and Email P-732-889-6220 F-732-872-6747 FirePrevention@highlandsBorough.org X

Alternate's Name & Title Tim Hill Borough Administrator

Alternate's Address 171 Bay Ave Highlands, NJ 07732

Alternate's Phone, Fax and Email P-732-872-1224 Ext 203 F-732-872-0670 Thill@highlandsBorough.org X

**Statement of Authority - Participating**

**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update - 2012**

**Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator**

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the Township of Holmdel **has opted to participate** in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Michael D. Simpson and Chief John Mioduszewski ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

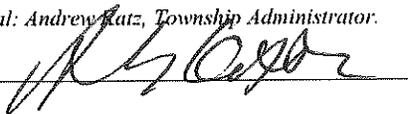
We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

*Name of Municipality: Holmdel Township*

*Name & Title of Authorizing Individual: Andrew Katz, Township Administrator.*

*Authorizing Signature and Date*

 7.23.12

*Representative's Name & Title: Michael D. Simpson, OEM Coordinator*

*Representative's Address: Holmdel Twp. Police Department, 4 Crawfords Corner Road, Holmdel NJ 07733.*

*Representative's Phone, Fax and Email: 732 688-6745(Cell) -- 866 871-4788 (Fax) -- mikesimpson911@gmail.com.*

X

*Alternate's Name & Title: John Mioduszewski, Chief of Police.*

*Alternate's Address: Holmdel Twp. Police Department, 4 Crawfords Corner Road, Holmdel NJ 07733*

*Alternate's Phone, Fax and Email: 732 946-4400 -- 732 946-3778(Fax) - jmioduszewski@holmdelpolice.org*

X

**Statement of Authority - Participating**

**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update - 2012**

**Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator**

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the Township of Howell has **opted to participate** in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Ronald Sanasac and George Gravatt ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality Howell Township

Name & Title of Authorizing Individual Helene Schlegel, Township Manager

Authorizing Signature and Date Helene Schlegel July 30, 2012

Representative's Name & Title Ronald Sanasac

Representative's Address PO Box 580 Howell Township, NJ 07731

Representative's Phone, Fax and Email 732-904-8601, 732-938-7411 OEM199@twp.howell.nj.us

Alternate's Name & Title George Gravatt

Alternate's Address PO Box 580 Howell Township, NJ 07731

Alternate's Phone, Fax and Email 732-938-4500, 732-938-7411 OEM199@twp.howell.nj.us

Statement of Authority - Participating

Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the Borough of Deal has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Chief Stephen Carasia and Captain Earl Alexander ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality: Interlaken Borough  
Borough of Deal (with handwritten "Deal 122" circled)

Name & Title of Authorizing Individual: Borough Administrator Dawn McDonald

Authorizing Signature and Date: \_\_\_\_\_  
7/31/12 (with signature circled)

Representative's Name & Title: Chief Stephen Carasia

Representative's Address: 190 Norwood Avenue, Deal, New Jersey 07723

Representative's Phone, Fax and Email: 732-531-1113, 732-531-3231, scarasia@dealpolice.org

Alternate's Name & Title: Captain Earl Alexander

Alternate's Address: 190 Norwood Avenue, Deal, New Jersey 07723

Alternate's Phone, Fax and Email: 732-531-1113, 732-531-3231, ealexander@dealpolice.org

### Statement of Authority - Participating

## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of Keansburg has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Raymond O'Hare and Ginger Rogan ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality Keansburg

Name & Title of Authorizing Individual Raymond O'Hare Borough Manager

Authorizing Signature and Date *Raymond B O'Hare* 7/16/12

Representative's Name & Title Raymond O'Hare (COEM)

Representative's Address 29 Church ST, Keansburg NJ 07734 chiefohare

Representative's Phone, Fax and Email (732)787-0215 x201 (732)787-5997 @aol

Alternate's Name & Title Ginger Rogan (Deputy OEM)

Alternate's Address 179 Czrr Ave, Keansburg NJ 07734

Alternate's Phone, Fax and Email (732)787-0600 (732)787-0354 dispgint1@  
aol.com

**Statement of Authority - Participating**

**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update - 2012**

**Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator**

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of Borough of Keyport has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Ken Krohe and Thomas Gallo ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality Borough of Keyport

Name & Title of Authorizing Individual Lorene K. Wright

Authorizing Signature and Date [Signature]

Representative's Name & Title Ken Krohe - OEM Coordinator

Representative's Address 70 West Front St Keyport NJ 07735

Representative's Phone, Fax and Email \_\_\_\_\_

Alternate's Name & Title Thomas Gallo

Alternate's Address 70 West Front St Keyport NJ 07735

Alternate's Phone, Fax and Email \_\_\_\_\_

### Statement of Authority - Participating

## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

**Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator**

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of LAKE COMO has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Fred W Hope and LOUISE MEKOSH ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality BOROUGH OF LAKE COMO

Name & Title of Authorizing Individual Chief Fred W Hope (O.E.M. COORDINATOR)

Authorizing Signature and Date Chief Fred W. Hope 8/8/2012

Representative's Name & Title Chief Fred W. Hope X

Representative's Address 1730 MAIN STREET LAKE COMO, NJ 07719

Representative's Phone, Fax and Email 732-681-3084 - 732-681-4920 fhope@boro.lake-como.nj.us

Alternate's Name & Title LOUISE MEKOSH BORO ADMINISTRATOR

Alternate's Address 1740 MAIN STREET, LAKE COMO, NJ 07719 X

Alternate's Phone, Fax and Email 732-681-3232 - 732-681-8981 LMEKOSH@BORO.LAKE-COMO-NJ.US

**Statement of Authority - Participating**

**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update - 2012**

**Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator**

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of BOROUGH OF LITTLE SILVER has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: FRANK SALERNO and GREGORY BLASH ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

*Name of Municipality* BOROUGH OF LITTLE SILVER

*Name & Title of Authorizing Individual* HELEN GORMLEY, ADMINISTRATOR/CLERK

*Authorizing Signature and Date* AUGUST 15, 2012 

*Representative's Name & Title* OEM COORDINATOR FRANK SALERNO

*Representative's Address* 480 PROSPECT AVE, LITTLE SILVER, NJ 07739 

*Representative's Phone, Fax and Email* 732-747-5900 732-741-5218

*Alternate's Name & Title* GREGORY BLASH, BOROUGH ENGINEER 

*Alternate's Address* 480 PROSPECT AVENUE, LITTLE SILVER, NJ 07739

*Alternate's Phone, Fax and Email* 732-922-9229 gblash@verizon.net

Statement of Authority - Participating

Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the Village of Loch Arbour has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Lorraine Carafa and Patrick Harvey ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality Village of Loch Arbour  
Name & Title of Authorizing Individual Lorraine Carafa, Clerk - Admin  
Authorizing Signature and Date Lorraine Carafa 7-11-2012  
Representative's Name & Title LORRAINE CARAFA  
Representative's Address 550 MAIN STREET LOCH ARBOUR NJ 07711 X  
Representative's Phone, Fax and Email 732-531-4740 lcarafa@locharbour.nj.us  
Alternate's Name & Title PATRICK HARVEY  
Alternate's Address 16 Buena Vista Court, Loch Arbour NJ 07711 X  
Alternate's Phone, Fax and Email nutleyeg@verizon.net

**Statement of Authority - Participating**

**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update - 2012**

**Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator**

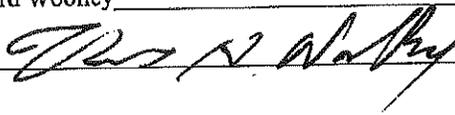
This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the City of Long Branch has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Stanley Dziuba and Charles F. Shirley Jr. ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality: City of Long Branch

Name & Title of Authorizing Individual: Howard Woolley

Authorizing Signature and Date: 7/31/2012  X

Representative's Name & Title: Charles F. Shirley Jr.

Representative's Address: 344 Broadway Long Branch NJ 07740

Representative's Phone, Fax and Email: (732) 803-5144 Cshirley@longbranch.org

Alternate's Name & Title: Stanley Dziuba

Alternate's Address: 344 Broadway Long Branch NJ 07740 X

Alternate's Phone, Fax and Email: (732) 904-4743 Sdziuba@ci.long-branch.nj.us

Statement of Authority - Participating

**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update - 2012**

**Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator**

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of Township of Manalapan has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Richard W. Hogan and James Winckowski ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality Township of Manalapan

Name & Title of Authorizing Individual Richard W. Hogan, OEM Coord.

Authorizing Signature and Date [Signature] 7/31/12

Representative's Name & Title Richard W. Hogan

Representative's Address 120 Route 522 Manalapan NJ 07726

Representative's Phone, Fax and Email 732-446-8318, 732-446-1366, rhogan@tp.manalapan.nj.us

Alternate's Name & Title James Winckowski, P.E. CME Associates

Alternate's Address 1460 U.S. Highway 9, Howell NJ 07731

Alternate's Phone, Fax and Email 732-887-9528, 732-462-7400

## Statement of Authority - Participating

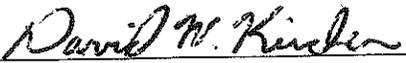
### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the Borough of Manasquan **has opted to participate** in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following three individuals: David W. Kircher, OEM Coordinator and Christopher Tucker, Deputy OEM Coordinator, and Mr. Joseph DeIorio, Borough Administrator ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

<i>Name of Municipality</i>	Borough of Manasquan
<i>Name &amp; Title of Authorizing Individual</i>	David W. Kircher, OEM Coordinator
<i>Authorizing Signature and Date</i>	
<i>Representative's Name &amp; Title</i>	David W. Kircher, OEM Coordinator & Christopher Tucker, Deputy Coordinator
<i>Representative's Address</i>	201 East Main Street, Manasquan, NJ 08736
<i>Representative's Phone, Fax and Email</i>	Kircher Cell: 732-299-7490 Tucker Cell: 732-299-7190 Fax: 732-223-0587 e-mail: oem@manasquan-nj.com
<i>Alternate's Name &amp; Title</i>	Joseph DeIorio, Borough Administrator
<i>Alternate's Address</i>	201 East Main Street, Manasquan, NJ 08736
<i>Alternate's Phone, Fax and Email</i>	Desk: 732-223-9530 Fax: 732-223-1300 e-mail: jdeiorio@manasquan-nj.com

### Statement of Authority - Participating

## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of Marlboro **has opted to participate** in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals; Robert Miller and Bob DiMarco ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality Township of Marlboro

Name & Title of Authorizing Individual: Bruce E. Hall, Emergency Management Coordinator

Authorizing Signature and Date  29 June 2012

Representative's Name & Title: Robert Miller, Deputy Emergency Management Coordinator

Representative's Address: 1979 Township Dr. Marlboro N.J. 07746

Representative's Phone, Fax and Email: BMiller@marlboro-nj.gov  
732-536-0188 Office 732-617-0448

Alternate's Name & Title Bob DiMarco, Director of Public Works

Alternate's Address 1979 Township Dr. Marlboro N.J. 07746

Alternate's Phone, Fax and Email 732-536-0188 Office  
732-617-0448 Fax Bdimarco@marlboro-nj.gov

Statement of Authority - Participating

**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update - 2012**

**Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator**

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the Borough of Matawan **has opted to participate** in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Thomas Falco as Representative and Richard Michitsch as Alternate Representative as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

*Name of Municipality:* **Borough of Matawan**

*Name & Title of Authorizing Individual:* **Paul Buccellato, AIA - Mayor, Borough of Matawan**

*Authorizing Signature and Date:*  **August 3, 2012**

*Representative's Name & Title:* **Thomas Falco, OEM Coordinator**

*Representative's Address:* **150 Main Street, Matawan, NJ 07747**

*Representative's Phone, Fax and Email:* **908-601-0317      tfalco@matawanpolice.org**

*Alternate's Name & Title:* **Richard Michitsch, 1st Deputy OEM Coordinator**

*Alternate's Address:* **201 Broad Street, Matawan, NJ 07747**

*Alternate's Phone, Fax and Email:* **908-461-5129      richard.michitsch@gmail.com**

X

X

Statement of Authority - Participating

**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update - 2012**

**Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator**

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the Township of Middletown has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Charles W. Rogers, OEM Coordinator and Cindy Herrschaft, P.I.O. ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality: Middletown Township

Name & Title of Authorizing Individual: Anthony Mercantante, Township Administrator

Authorizing Signature and Date:  July 11, 2012

Representative's Name & Title: Charles W. Rogers, III OEM Coordinator

Representative's Address: 52 Kanen Lane, Middletown, NJ 07748

Representative's Phone, Fax & Email: Phone 732-615-2129, Fax 732-615-9104, E-mail crogers@middletownnj.org

Alternate's Name & Title: Cindy Herrschaft, Public Information Officer

Alternate's Address: One Kings Highway, Middletown, NJ 07748

Alternate's Phone, Fax and Email: Phone 732-615-2287, Fax 732-671-6211, E-mail cherrschr@middletownnj.org

732-409-7532

### Statement of Authority - Participating

## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

**Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator**

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of Millstone Township has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Michael T. Kuczinski and MANNY BLANCO ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality Millstone Township

Name & Title of Authorizing Individual Michael T. Kuczinski, DEM Coordinator

Authorizing Signature and Date Michael T. Kuczinski 07-23-2012

Representative's Name & Title Michael T. Kuczinski, DEM Coordinator

Representative's Address 24 WAGNER FARM LANE, MILLSTONE TWP, NJ 08535

Representative's Phone, Fax and Email 732-895-3802, 732-786-8416 M-KUCZINSKI@MILLSTONE.NJ.US

Alternate's Name & Title MANNY BLANCO, DEM Deputy Coord.

Alternate's Address 7 PETERS COURT, MILLSTONE TWP, NJ 08535

Alternate's Phone, Fax and Email 1-732-599-5540, BLANCOM@OPTONLINE.NET

## Statement of Authority - Participating

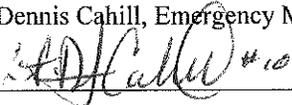
### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the Borough of Monmouth Beach **has opted to participate** in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Dennis Cahill and Cranston Van Bloem ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

<i>Name of Municipality</i>	Borough of Monmouth Beach
<i>Name &amp; Title of Authorizing Individual</i>	Dennis Cahill, Emergency Management Coordinator
<i>Authorizing Signature and Date</i>	 _____
<i>Representative's Name &amp; Title</i>	Dennis Cahill, Emergency Management Coordinator
<i>Representative's Address</i>	14 Willow Ave., Monmouth Beach, NJ 07750
<i>Representative's Phone, Fax and Email</i>	(C) 732-904-1817; (F) 732-229-7450; <a href="mailto:monmouthbeachoem@gmail.com">monmouthbeachoem@gmail.com</a>
<i>Alternate's Name &amp; Title</i>	Cranston Van Bloem, Deputy EMC
<i>Alternate's Address</i>	7 Asbury Ave., Oceanport, NJ 07757
<i>Alternate's Phone, Fax and Email</i>	

**Statement of Authority - Participating**

**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update - 2012**

**Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator**

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the Borough of Neptune City **has opted to participate** in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Robert Temple and John Matthews ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality NEPTUNE CITY

Name & Title of Authorizing Individual MARY E SAPP, BOROUGH ADMINISTRATOR

Authorizing Signature and Date Mary E Sapp

Representative's Name & Title Robert Temple Deputy coordinator

Representative's Address 106 W. Sylvania Ave. X

Representative's Phone, Fax and Email 732-6618-6367, 732-776-5162 btemple@firchousemail.com

Alternate's Name & Title JOHN MATTHEWS, POLICE LIEUTENANT

Alternate's Address 106 W SYLVANIA AVE X

Alternate's Phone, Fax and Email 732-775-1298 EXT 38-732-776-5162  
NCPD037@optonline.net

### Statement of Authority - Participating

## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator

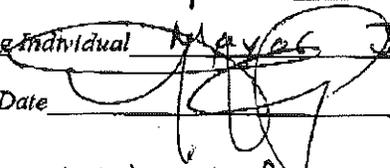
This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of NEPTUNE has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Michael Bascom and Leanne Hoffmann ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality Township of Neptune

Name & Title of Authorizing Individual Mayor J. Randy Bishop

Authorizing Signature and Date 

Representative's Name & Title Michael Bascom, Emergency Mgt.

Representative's Address 25 Neptune Blvd, Neptune, NJ 07753

Representative's Phone, Fax and Email 732-988-5200 x241, 732-897-4333  
m.bascom@neptunetownship.org

Alternate's Name & Title Leanne Hoffmann

Alternate's Address 25 Neptune Blvd., Neptune NJ 07753

Alternate's Phone, Fax and Email 732-988-5200 x228, 732-897-4333  
L.Hoffmann@neptunetownship.org

## Statement of Authority - Participating

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

**Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator**

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the **Township of Ocean has opted to participate** in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Tom Caruso and Andrew Brannen ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality Ocean Township

Name & Title of Authorizing Individual Andrew Brannen, Township Manager

Authorizing Signature and Date  7/2/12

Representative's Name & Title Tom Caruso, Emergency Management Director

Representative's Address 399 Monmouth rd, Oakhurst, NJ 07755

Representative's Phone, Fax and Email (732) 531-5000, x3378; Fax- (732) 897-6066; tcaruso@oceantwp.org

Alternate's Name & Title Andrew Brannen, Township Manager

Alternate's Address 399 Monmouth rd, Oakhurst, NJ 07755

Alternate's Phone, Fax and Email (732) 531-5000, x3378; Fax- (732) 531-5286; abrannen@oceantwp.org

**Statement of Authority - Participating**

**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update - 2012**

**Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator**

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of **Borough of Oceanport** has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: **Mauro Baldanza** and **Chris Baggot** ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

*Name of Municipality- Borough of Oceanport*

*Name & Title of Authorizing Individual- Mauro V. Baldanza, Coordinator*

*Authorizing Signature and Date* Mauro V. Baldanza 7/1/12

*Representative's Name & Title- Mauro V. Baldanza*

*Representative's Address: 43 Algonquin Ave Oceanport, NJ 07757*

*Representative's Phone, Fax and Email: 732-904-0520, 732-571-0615, opd415@verizon.net*

*Alternate's Name & Title: Chris Baggot, Dep. Coordinator*

*Alternate's Address: 200 Comanche Dr Oceanport, NJ 07757*

*Alternate's Phone, Fax and Email: (732) 233-9058;; cbchrisbaggot@gmail.com*

# Statement of Authority - Participating

## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of RED BANK has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: THOMAS J. WELSH and ROBERT HOLIDAY JR. ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality BOROUGH OF RED BANK

Name & Title of Authorizing Individual PASQUALE MENNA, MAYOR

Authorizing Signature and Date  8/14/2012

Representative's Name & Title THOMAS J. WELSH, OEM COORDINATOR

Representative's Address 90 MONMOUTH STREET, RED BANK, NJ 07701

Representative's Phone, Fax and Email 732-530-2777 x 496 (office), 732-904-6865 (cell)  
732-450-9109 (fax) twelsh@redbanknj.org

Alternate's Name & Title ROBERT HOLIDAY, JR, DPW SUPERVISOR

Alternate's Address 75 CHESTNUT STREET, RED BANK, NJ 07701

Alternate's Phone, Fax and Email 732-530-2770 (office), 732-904-7061 (cell)  
732-530-4718 (fax) bholiday@redbanknj.org

## Statement of Authority - Participating

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

**Lead Agency: Monmouth County Sheriff's Office**  
**Office of Emergency Management**  
**300 Halls Mill Road**  
**Freehold, New Jersey 07728**  
**Michael E. Oppegaard, Coordinator**  
**Contact: Margaret Murnane, Deputy Coordinator**

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of Borough of Roosevelt has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Ralph Warnick and Michael Ticktin ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality Borough of Roosevelt

Name & Title of Authorizing Individual Elisbeth Battel, Mayor

Authorizing Signature and Date Elisbeth Battel

Representative's Name & Title Ralph Warnick Councilmember

Representative's Address P.O. Box 3 Roosevelt NJ 08555

Representative's Phone, Fax and Email 609 490 0702 ralphwarnick@verizon.net

Alternate's Name & Title Michael L. Ticktin

Alternate's Address P.O. Box 298, 37 N. Valley Rd, Roosevelt NJ

Alternate's Phone, Fax and Email 609-947-0491 (cell)  
609-448-0363 (home)  
609-448-4997 (fax)  
MTicktin@aol.com

Statement of Authority - **Participating**

**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update - 2012**

**Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator**

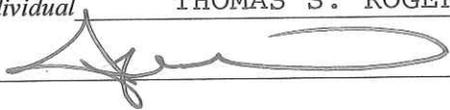
This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, ~~Township~~, ~~City~~, ~~Village~~) of RUMSON **has opted to participate** in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: JAMES HEMPSTEAD and THOMAS ROGERS ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality BOROUGH OF RUMSON

Name & Title of Authorizing Individual THOMAS S. ROGERS

Authorizing Signature and Date  August 1, 2012

Representative's Name & Title JAMES HEMPSTEAD, RUMSON OEM DIRECTOR

Representative's Address 80 East River Road, Rumson, NJ 07760 ✓

Representative's Phone, Fax and Email 732-842-3300/732-219-0714 James.Hempstead@Moodys.com

Alternate's Name & Title THOMAS S. ROGERS, MUNICIPAL CLERK/ADMINISTRATOR

Alternate's Address 80 East River Road, Rumson, NJ 07760

Alternate's Phone, Fax and Email 732-842-3300/732-219-0714 trogers@rumsonnj.gov ✓

## Statement of Authority - Participating

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

**Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator**

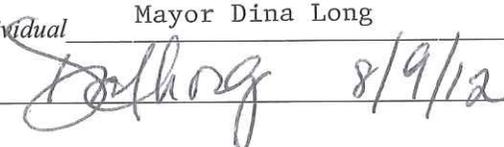
This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of Sea Bright has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Daniel Drogin and Richard M. Kachmar ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality Sea Bright Borough

Name & Title of Authorizing Individual Mayor Dina Long

Authorizing Signature and Date  8/9/12

Representative's Name & Title Daniel Drogin Emergency Manager

Representative's Address 1167 Ocean Ave. Sea Bright, NJ 07760 X

Representative's Phone, Fax and Email 732-500-5237 Fax 732-741-3116 Asgard@aol.com

Alternate's Name & Title Richard M. Kachmar Administrator / Municipal Clerk

Alternate's Address 1167 Ocean Ave. Sea Bright, NJ 07760 X

Alternate's Phone, Fax and Email 732-842-0099 Ext 13 Fax 732-741-3116 Seabrightclerk@comcast.net

# Statement of Authority – Sea Girt Borough

## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

**Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator**

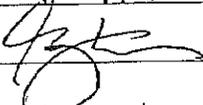
This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of Borough of Sea Girt has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Tim Harmon and Ed Sidley ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality Borough of Sea Girt

Name & Title of Authorizing Individual Tim Harmon - OEM Coordinator

Authorizing Signature and Date  7/30/12

Representative's Name & Title Tim Harmon - Emergency Mgmt Coordinator

Representative's Address P.O. Box 463 Sea Girt NJ 08750 ✓

Representative's Phone, Fax and Email 732-245-2860 / 732-974-8357 / tharmon@seagirtboro.com ✓

Alternate's Name & Title Ed Sidley - Deputy OEM Coordinator

Alternate's Address \_\_\_\_\_

Alternate's Phone, Fax and Email 732-259-5393 c. ESidley@seagirtboro.com ✓

## Statement of Authority - Participating

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator

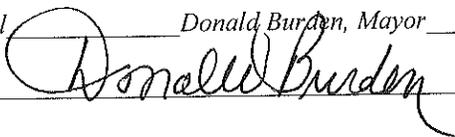
This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the Borough of Shrewsbury **has opted to participate** in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Jerzy Chojnacki and Mark Bradley ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality Shrewsbury Borough

Name & Title of Authorizing Individual Donald Burden, Mayor DONALD W. BURDEN

Authorizing Signature and Date 

Representative's Name & Title Jerzy Chojnacki, OEM Coordinator

Representative's Address 419 Sycamore Ave Shrewsbury, NJ, 07702

Representative's Phone, Fax and Email (732) 796-8331 Cell (732) 741-0978 Fax shrewsburyoem@yahoo.com X

Alternate's Name & Title Mark Bradley, OEM Deputy Coordinator

Alternate's Address 419 Sycamore Ave, Shrewsbury, NJ 07702 X

Alternate's Phone, Fax and Email (732) 859-1184 Cell (732) 741-0978 Fax bradleyk5@verizon.net

### Statement of Authority - Participating

## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of Shrewsbury has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Daniel Dunn and \_\_\_\_\_ ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality: Township of Shrewsbury  
Name & Title of Authorizing Individual: EDWARD P. NOLAN / MAYOR  
Authorizing Signature and Date: [Signature] 7/12/2012

Representative's Name & Title: Daniel Dunn - OEM Coordinator  
Representative's Address: 89 Barker Avenue Shrewsbury Township, NJ 07724  
Representative's Phone, Fax and Email: (c)732-986-3207 (f)732-935-1348 e-mail: dunn.daniel.j@gmail.com

Alternate's Name & Title \_\_\_\_\_  
Alternate's Address \_\_\_\_\_  
Alternate's Phone, Fax and Email \_\_\_\_\_

X

## Statement of Authority - Participating

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

**Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator**

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of Borough of Spring Lake has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: James Mullen and Chief Edward Kerr ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality Borough of Spring Lake

Name & Title of Authorizing Individual W. Bryan Dempsey Borough Administrator X

Authorizing Signature and Date W. Bryan Dempsey 7/11/12 X

Representative's Name & Title James Mullen, Office of Emergency Management  
Coordinator

Representative's Address 306 Ocean Road Spring Lake, NJ 07762 X

Representative's Phone, Fax and Email 732-539-6959 fax 732-449-8797 vze2hz2@  
verizon.net X

Alternate's Name & Title Ed Kerr, Police Chief X

Alternate's Address 309 Washington Ave Spring Lake, NJ 07762

Alternate's Phone, Fax and Email 732-449-1234, office for 732-449-8696  
732-904-4810 cell ekerr@springlakeboro.org

**Statement of Authority - Participating**

**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update - 2012**

**Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator**

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of Spring Lake Heights **has opted to participate** in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: William Graetz \_\_\_\_\_ and Jay Delaney \_\_\_\_\_ ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality *Spring Lake Heights*

Name & Title of Authorizing Individual *J. Delaney, Borough Adm.*

Authorizing Signature and Date *Jay Delaney* *7/25/12*

Representative's Name & Title *William Graetz OEM Coordinator*

Representative's Address *555 Brighton Avenue, Spring Lake Heights, NJ 07762*

Representative's Phone, Fax and Email *732-496-8611, wgraetz@springlakehts.com*

Alternate's Name & Title *Jay Delaney*

Alternate's Address *555 Brighton Avenue, Spring Lake Heights, NJ 07762*

Alternate's Phone, Fax and Email *732-449-3500, jdelaney@springlakehts.com*

## Statement of Authority - Participating

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of **BOROUGH OF TINTON FALLS** has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: David Marks and John Mack ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality BOROUGH OF TINTON FALLS

Name & Title of Authorizing Individual Gerald M. Turning, Borough Admin

Authorizing Signature and Date  3/13/12  
David Boehring, Fire Prevention, OEM deputy coordinator

Representative's Name & Title David Marks, Engineer

Representative's Address 556 Tinton Ave, Tinton Falls, NJ 07724

Representative's Phone, Fax and Email (732) 542-3400, dimm@tintonfalls.com

Alternate's Name & Title John Mack OEM Coordinator

Alternate's Address 556 Tinton Ave, Tinton Falls, NJ 07724

Alternate's Phone, Fax and Email (732) 542-3400 x222, jmack@tintonfalls.com

### Statement of Authority - Participating

## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of UNION BEACH has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: MICHAEL HARRIOTT and DENNIS DAYBACK ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality BOROUGH OF UNION BEACH  
Name & Title of Authorizing Individual JENNIFER MAIER, BOROUGH ADMINISTRATOR  
Authorizing Signature and Date [Signature] 7/17/12  
Representative's Name & Title MICHAEL HARRIOTT - OEM COORDINATOR  
Representative's Address 400 FLORENCE AVE, UNION BEACH N.J. 07735  
Representative's Phone, Fax and Email 732-264-7484 (W) 732-620-5035 (C) 4REMC1@gmail.com  
Alternate's Name & Title DENNIS DAYBACK - BOROUGH ENGINEER  
Alternate's Address 11 Tindall Road, Middletown, NJ 07748  
Alternate's Phone, Fax and Email 732-671-6400 F 732-671-7365

d.dayback@TandM associates.com

Statement of Authority - Participating

Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the Township of Upper Freehold **has opted to participate** in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Michael Conroy and LoriSue H. Mount ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

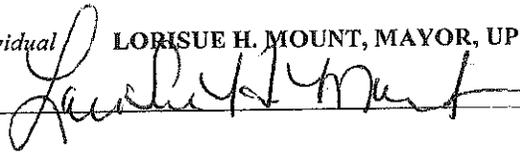
Name of Municipality

UPPER FREEHOLD TOWNSHIP

Name & Title of Authorizing Individual

LORISUE H. MOUNT, MAYOR, UPPER FREEHOLD TOWNSHIP

Authorizing Signature and Date



Representative's Name & Title

MICHAEL CONROY

Representative's Address

OFFICE OF EMERGENCY MANAGEMENT, 314 ROUTE 539, CREAM RIDGE, NJ 08514

Representative's Phone, Fax and Email Phone (609) 548-7191, Fax (609) 498-7532, Email oem@uftnj.com

Alternate's Name & Title

LORISUE H. MOUNT, MAYOR UPPER FREEHOLD TOWNSHIP

Alternate's Address

314 ROUTE 539, CREAM RIDGE, NJ 08514

Alternate's Phone, Fax and Email

Phone (609) 758-7738, Fax (609) 758-1183, Email llansroh@yahoo.com

## Statement of Authority - Participating

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator

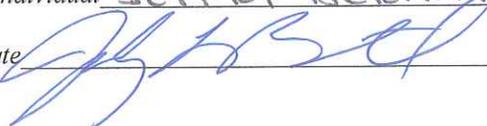
This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, Township, City, Village) of WALL has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: JOSEPH WILBERT and ROBERT BRECE ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality TOWNSHIP OF WALL

Name & Title of Authorizing Individual JEFFRY BERTRAND, TOWNSHIP ADMINISTRATOR

Authorizing Signature and Date  7-24-12

Representative's Name & Title JOSEPH WILBERT, DEPUTY COORDINATOR

Representative's Address 2700 ALLASLE ROAD WALL, NJ 07719

Representative's Phone, Fax and Email 732-449-4500 EXT. 1135  
732-449-1273  
JWILBERT@wallpaice.org X

Alternate's Name & Title ROBERT BRECE, COORDINATOR

Alternate's Address 2700 ALLASLE ROAD WALL, NJ 07719

Alternate's Phone, Fax and Email 732-449-4500 EXT. 1135  
732-449-1273  
RBRECE@wallpaice.org X

## Statement of Authority - Participating

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - 2012

Lead Agency: Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mill Road  
Freehold, New Jersey 07728  
Michael E. Oppegaard, Coordinator  
Contact: Margaret Murnane, Deputy Coordinator

This document is prepared as a statement of the authority advising Monmouth County Sheriff's Office, Office of Emergency Management, that the (Borough, ~~Township, City, Village~~) of West Long Branch has opted to participate in the first update of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. Our municipality has committed to participating in the development of an updated county-wide, multi-jurisdictional hazard mitigation plan. We have authorized the following two individuals: Chief Arthur N. Cosentino and Lieutenant Paul Habermann ("Representative" and "Alternate", respectively) as local members serving on the Multi-Jurisdictional Core Planning Group and to actively participate as requested throughout the planning process.

We understand that our municipal Local Emergency Planning Committee (LEPC) will serve as its own local hazard mitigation planning committee ("Jurisdictional Assessment Team").

At the end of the project, when FEMA approves the plan, it is understood that our municipality will need to pass a resolution formally adopting the final plan, which is a requirement if we wish to apply for future funding for mitigation projects. This resolution will be provided immediately to the Monmouth County Sheriff's Office, Office of Emergency Management for submittal to FEMA, who requires the resolution on file.

Name of Municipality Borough of West Long Branch

Name & Title of Authorizing Individual Janet W. Tucci, Mayor

Authorizing Signature and Date *Janet W. Tucci*

Representative's Name & Title Chief Arthur N. Cosentino

Representative's Address 965 Broadway, West Long Branch, NJ 07764

Representative's Phone, Fax and Email (732) 229-5000 (Phone) (732) 229-6727 (Fax)  
acosentino@westlongbranch.org

Alternate's Name & Title Lieutenant Paul Habermann

Alternate's Address 965 Broadway, West Long Branch, NJ 07764

Alternate's Phone, Fax and Email (732) 229-5000 (Phone) (732) 229-6727 (Fax)  
phabermann@westlongbranch.org

**APPENDIX 1.10 – OUTREACH LOGS**



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** Monmouth County (1 of 8)

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
6/29/12	Press Release	Discussed plan update process, submitted to local papers and posted on county website	OEM Coordinator, OEM Deputy Coordinator and PIO
6/29/12	Letter and Fact Sheet to Municipal Officials and Stakeholders	Letters describing the plan process and update; intent to participate forms	OEM Coordinator and OEM Deputy Coordinator
6/29/12	Added hazard mitigation link to MCSO OEM website	All forms and documents posted	OEM Coordinator and OEM Deputy Coordinator, MCSO IT
7/25/12 to 7/29/12	Fact Sheet	Distributed at Monmouth County Fair	OEM Coordinator and OEM Deputy Coordinator, Public Affairs Office

**Please add additional pages as needed and return via email by July 18, 2014 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.**



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** Monmouth County (2 of 8)

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
8/7/12	Union Beach National Night Out	Distributed Fact Sheet	OEM Deputy Coordinator
7/31/12	WOBM at Kickoff meeting	Interviewing Communities	OEM Coordinator, OEM Deputy Coordinator, PIO
8/20/12	Fact Sheet to Manasquan Borough	For distribution in municipal building and library	OEM Deputy Coordinator, Manasquan Deputy Coordinator
10/16/12	Web survey press release	Natural Hazard survey	OEM Deputy Coordinator, PIO

**Please add additional pages as needed and return via email by July 18, 2014 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.**



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** Monmouth County (3 of 8)

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
3/1/13	Hazard Mitigation information on social media	Posted on Monmouth County Face book page	OEM Deputy Coordinator, PIO
3/8/13	Promoting flood mapping website on social media	JCNERR-Rutgers University njfloodmapper.org promoted on County Face book page to raise awareness of sea level rise, FEMA/NJDEP Flood Maps and Sandy inundation	OEM Deputy Coordinator, PIO, JCNERR-Rutgers
4/1/13	Sea Bright Mitigation Video on social media	Video from FEMA on Monmouth County Face book page	OEM Deputy Coordinator, PIO
5/22/13	Bayshore Emergency Management Association Public Meeting for Hazard Mitigation Plan Update	Panel discussion, questions answered from public, Fact Sheet distributed. Eleven municipalities are included in this association.	BEMA, OEM Coordinator, OEM Deputy Coordinator
6/3/13	FEMA video	Manasquan Mitigation efforts after Sandy	FEMA, Monmouth County OEM, Manasquan OEM

**Please add additional pages as needed and return via email by July 18, 2014 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.**



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** Monmouth County (4 of 8)

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
6/20/13	Press release	Describing Hazard Mitigation Plan Update and planning process, distributed to local newspapers	OEM Coordinator, OEM Deputy Coordinator, PIO
6/20/13	Press Release	Describing Hazard Mitigation Plan Update and planning process, posted on Face book	OEM Coordinator, OEM Deputy Coordinator, PIO
7/24/13 to 7/28/13	Fact Sheet distributed	Monmouth County Fair	OEM Coordinator, OEM Deputy Coordinator
11/18/13	Regular public meeting of the Monmouth County Planning Board	Hazard Mitigation Plan on Agenda	MC Planning Board, Assistant Director

**Please add additional pages as needed and return via email by July 18, 2014 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.**



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** Monmouth County (5 of 8)

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
1/27/14	Stakeholder assistance	Jacques Cousteau Reserve assisted Monmouth County by providing GIS shape files for the Mitigation Plan update	OEM Deputy Coordinator
2/18/14	Regular public meeting of the Monmouth County Planning Board	Hazard Mitigation Plan on Agenda	MC Planning Board, Assistant Director
3/4/14	Press Release	Hazard Mitigation Plan update process and Mitigation Strategy to local papers for publication	OEM Coordinator, OEM Deputy Coordinator, PIO
3/4/14	Press Release	Hazard Mitigation Plan update process and Mitigation Strategy posted to Monmouth County Face book page	OEM Coordinator, OEM Deputy Coordinator, PIO

**Please add additional pages as needed and return via email by July 18, 2014 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.**



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:**  Monmouth County  (6 of 8) \_\_\_\_\_

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
3/17/14	Regular public meeting of the Monmouth County Planning Board	Hazard Mitigation Plan on Agenda	MC Planning Board, Assistant Director
4/21/14	Regular public meeting of the Monmouth County Planning Board	Hazard Mitigation Plan on Agenda	MC Planning Board, Assistant Director
5/19/14	Regular public meeting of the Monmouth County Planning Board	Hazard Mitigation Plan on Agenda	MC Planning Board, Assistant Director
6/6/14	Social Media	Posted FEMA tweet "Ahead of the Game: NJ's Hazard Mitigation Initiative will Pay Off in Future Storms"	OEM Deputy Coordinator, PIO
7/23/14 to 7/27/14	Fact Sheet	Distributed at Monmouth County Fair	OEM Coordinator and OEM Deputy Coordinator, Public Affairs Office, Planning Board

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** \_\_\_\_\_ **Monmouth County (7 of 8)** \_\_\_\_\_

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
Sept/Oct 2014	Press Release	Press Release submitted to local media outlets regarding the release of the Draft Hazard Mitigation Plan for Public review/comment	OEM Coordinator, OEM Deputy Coordinator, Public Affairs Office, Sheriff's Office PIO
Sept/Oct 2014	Press Release Posted to Social Media	Posted on Face Book and twitter	OEM Coordinator, OEM Deputy Coordinator, Public Affairs Office, Sheriff's Office PIO
Sept/Oct 2014	Press Release	Posted to County Website and Sheriff's website	OEM Coordinator, OEM Deputy Coordinator, Public Affairs Office, Sheriff's Office PIO
August/September/ October/November 2014	Regular monthly public meeting of the Monmouth County Planning Board	Hazard Mitigation Plan notification at meeting of pending draft release and actual draft release. Post message on Planning Division website.	MC Planning Board members, Assistant Director of the Planning Board

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** Monmouth County (8 of 8)

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
August/September/ October/November 2014	Regular monthly public meeting of the Monmouth County Board of Chosen Freeholders	Notification of Draft Hazard Mitigation Plan release, pending and when officially released. Available on the County website for review.	OEM Coordinator, OEM Deputy Coordinator, Clerk of the Board, Freeholders

**Please add additional pages as needed and return via email by July 18, 2014 to Anna Foley at:**  
**[anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.**



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: \_\_Monmouth County (miscellaneous) \_#9**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
May 22, 2013	Press release	County and BEMA (11 Bayshore Emergency Management Association towns) to hold Public Meeting regarding the Hazard mitigation Plan Update at the RAVE Theatre in Hazlet	County Emergency Management BEMA Emergency Management PIO Local Media
May 23, 2013	Press Article NJ.com	Article regarding the 5/22/13 Public meeting for the hazard mitigation plan update	NJ.com
June 10, 2013	Social Media	Retweeted FEMA tweet "Mitigation Worked for NJ Couple" on County Sheriff's twitter site	FEMA County Emergency Management County PIO
August 8, 2013	Social Media	Retweeted FEMA tweet "Mitigation is Important" on County Sheriff's twitter site	FEMA County Emergency Management County PIO



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: ABERDEEN TOWNSHIP

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
10/18/12	Press Release	MCSO Press Release posted to Township website. Copies available at Reception & Building Dept. in Townhall.	OEM Coordinator
4/23/13	Public Meeting	Discussed HMPG w/ Cliffwood Beach Residents at informational meeting at Townhall.	OEM Coordinator Floodplain Manager/ Building Official
5/22/13	Public Meeting	Participated in Outreach meeting for Bayshore Region organized by B.E.M.A. at RAVE Theatre, Hazlet.	OEM Coordinator Bayshore Emergency Management Alliance
5/23/13	Website Posting	MCSO update information posted with link to Natural Hazard Survey.	OEM Coordinator Township Webmaster
6/13/13	Public Meeting	Spoke about HMPG at Town Council Meeting.	OEM Coordinator

**Please add additional pages as needed and return via email by May 1, 2013 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.**





**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: ABERDEEN TOWNSHIP

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
6/20/13	Website Posting	Monmouth County HMPG fact sheet posted to Township website.	OEM Coordinator
6/20/13	Literature	HMPG fact sheet copies available at Reception, Building Dept., Municipal Clerk.	OEM Coordinator
7/25/13	Public Meeting	Discussed HMPG at an Emergency Preparedness Meeting w/Township Residents at Matawan Aberdeen Middle School.	OEM Coordinator Township Staff
3/14/14	Website Posting	MCSO News Release Update posted to website.	OEM Coordinator Public Information Office

Please add additional pages as needed and return via email by May 1, 2013 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.





## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: \_\_\_\_\_ Allenhurst Borough \_\_\_\_\_

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
6/21/2013	INFORMATION POSTING	Posted Sheriff's Office 6/19/13 Mitigation news release in Borough Hall, Police Department Foyer and Borough Meeting room.	POLICE/OEM – Chief Richter
8/29/2013	INFORMATION POSTING AND LINKAGE	Had the Borough IT Specialist place the County Sheriff's Mitigation link to the Borough's website "OEM" section.	POLICE/OEM – Chief Richter
5/20/2014	INFORMATION POSTING	Reposted/restocked Sheriff's Office 6/19/13 Mitigation news release in Borough Hall, Police Department Foyer and Borough Meeting room.	POLICE/OEM – Chief Richter
7/15/14	INFORMATION POSTING	Posted Sheriff's Office 2014 Mitigation news update in Borough Hall, Police Department Foyer and Borough Meeting room. It was also place on the Borough's website.	POLICE/OEM – Chief Richter

**Please add additional pages as needed and return via email by July 18, 2014 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.**



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION:     Allentown Borough    #1    

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
August 6, 2012	Community Outreach	Posted Fact Sheet and Press Release in Borough Hall, Police Department, and Library  Press Release Mon. Co. Plan Update Process June 29, 2012	Deputy Municipal OEM
September 2012	Notice to Allentown Municipal Officials and Stakeholders	Discuss Hazard Mitigation Plan update process	Deputy Municipal OEM
October 2012	Website updated	Link to Monmouth County Sheriff's Office, OEM, Hazard mitigation planning process webpage	Deputy Municipal OEM
October 2012	Community Outreach	Posted Hazard mitigation Plan Update Fact Sheet in all Borough Offices	Deputy Municipal OEM
April 2013	Letter and Fact Sheet resent to Municipal officials and Stakeholders	Discussed Hazard Mitigation Plan update process (resumed after Sandy)	Municipal OEM, Floodplain Manager, Deputy Municipal OEM

***Please add additional pages as needed and return via email by July 18, 2014 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.***



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:**     Allentown #2    

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
June 12, 2013	Community Outreach	Posted News Article: "Monmouth County Works on Updating Hazard Mitigation Plan" in all Municipal Buildings/Offices and Library	Deputy Municipal OEM
August, 2013	Community Outreach	Council Meeting explaining Hazard Mitigation Plan (meeting open to the public)	Deputy Municipal OEM
October, 2012	Community Outreach	Council Meeting explaining Hazard Mitigation Plan (meeting open to the public)	Deputy Municipal OEM
January 14, 2014	Community Outreach	Council Meeting explaining Hazard Mitigation Plan (meeting open to the public)	Deputy Municipal OEM

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:**     Allentown #3    

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
March, 2014	Community Outreach	Council Meeting explaining Hazard Mitigation Plan (meeting open to the public)	Deputy Municipal OEM
May 2014	Community Outreach	Council Meeting explaining Hazard Mitigation Plan (meeting open to the public)	Deputy Municipal OEM
July 15, 2014	Community Outreach	Posted Hazard Mitigation Fact Sheet in Borough hall, Police Department and Library	Deputy Municipal OEM
August 12, 2014	Community Outreach	Council Meeting explaining draft Hazard Mitigation Plan release (meeting open to the public)	Deputy Municipal OEM

**Please add additional pages as needed and return via email by July 18, 2014 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.**



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** \_\_\_\_\_ Allentown #4 \_\_\_\_\_

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
September and October, 2014	Community Outreach	Will post on Municipal website: Hazard mitigation plan Fact Sheet and notice of draft plan release for public review	Deputy Municipal OEM
September and October 2014	Community Outreach	Council Meeting explaining Hazard Mitigation Plan (meeting open to the public)	Deputy Municipal OEM

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** \_\_\_\_\_ Asbury Park \_\_\_\_\_ (1) \_\_\_\_\_

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
8/12/12	LEPC Meeting	Discussed the Hazard Mitigation Plan update with City Administration, City Department heads, EMS and Fire	Emergency Management
9/4/12	Hazard Mitigation Plan update Fact Sheet Distributed	Posted in all municipal buildings and offices, copies available for residents to pick up	Emergency Management Department Heads
10/3/12	City Council/Public Meeting	Hazard Mitigation Plan Fact Sheets distributed at meeting	Emergency Management Council members
4/25/13	LEPC Meeting	Discussed the ongoing Hazard Mitigation Plan update process with City Administration, City Department heads, EMS and Fire	Emergency Management
June 2013	Hazard Mitigation Plan update Fact Sheet Distributed	Posted in all municipal buildings and offices, copies available for residents to pick up	Emergency Management Department Heads

8/1/13	Public Outreach/Community Event	Hazard Mitigation Plan update Fact Sheet distributed during National Night Out. Copies available for residents to pick up. Discussed plan update with interested residents	Emergency Management PIO
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**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** \_\_\_\_\_ Asbury Park \_\_\_\_\_ (2)\_\_\_\_\_

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
9/24/13	Hazard Mitigation Plan update Fact Sheet Distributed	Posted in all municipal buildings and offices, copies available for residents to pick up	Emergency Management Department Heads
2/5/14	Hazard Mitigation Plan update Fact Sheet Distributed	Posted in all municipal buildings and offices, copies available for residents to pick up	Emergency Management Department Heads
6/4/14	City Council/Public Meeting	Hazard Mitigation Plan Fact Sheets distributed at meeting	Emergency Management Council members

8/5/14	Public Outreach/Community Event	Hazard Mitigation Plan update Fact Sheet distributed during National Night Out. Copies available for residents to pick up. Discussed plan update with interested residents	Emergency Management PIO
August 2014	Website updated	Asbury Park website linked to County website, pending draft plan release notification to residents	Emergency Management Administration PIO
8/22/14	Hazard Mitigation Plan update Fact Sheet Distributed	Posted in all municipal buildings and offices, copies available for residents to pick up	Emergency Management Department Heads

**PARTICIPATING JURISDICTION:** \_\_\_\_\_ Asbury Park \_\_\_\_\_ (3)\_\_\_

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
September through December 2014	City Council/Public meeting	At one meeting each month, council will notify residents of hazard mitigation draft plan release. Will direct residents to the County website to review.	Emergency Management Council members
September through December 2014	Planning Board/Public Meeting	At one meeting each month, council will notify residents of hazard mitigation draft plan release. Will direct residents to the County website to review.	Emergency Management Planning Board members

ASBURY PARK

September through December 2014	Public outreach via resident website "Next Door"	Will post hazard mitigation draft plan release update on website for residents. Direct residents to County website to review.	Emergency Management Website IT
September through December 2014	Public outreach via Asbury park Homeowners Association	Attend HOA meetings to notify residents of draft plan release; email blasts to residents regarding draft plan release. Direct homeowners to County website to review.	Emergency Management
September through December 2014	Public outreach to local businesses	Will notify local businesses of draft plan release through an email blast by the Asbury park Chamber of Commerce. Direct businesses to County website to review.	Emergency Management Chamber of Commerce

***Please add additional pages as needed and return via email by July 18, 2014 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.***



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

#### PARTICIPATING JURISDICTION: Borough of Atlantic Highlands

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
October 18, 2012	Publishing / Post	Review. Post Press Release of MCHMP to Borough web site <a href="http://www.ahnj.com">www.ahnj.com</a> under general and OEM section	OEM Coordinator Adam Hubeny AH Municipal Clerk Dwayne Harris
2/18/13	Public Meeting	Meet to discuss Outreach Strategy With other Bayshore OEM's (10 members belong to BEMA)	Bayshore Emergency Management Association (BEMA) OEM Coordinator Adam Hubeny
3/15/13	Advertisement	Posted MCHMP Information to Borough Web Site: <a href="http://www.ahnj.com">www.ahnj.com</a>	OEM Coordinator Adam Hubeny AH Municipal Clerk Dwayne Harris Web Master Liz @ ZUMU
5/22/13	Public Meeting	Hold open public meeting organized with BEMA (10 member towns) at Rave Movie Theater, Hazlet, NJ	OEM Coordinator Adam Hubeny Deputy OEM Coord Richard White Bayshore Emergency Management Association (BEMA)
6/12/13	Workshop Meeting	Hold discussion at Mayor and Council public workshop on MCHMP. Same listed on agenda	OEM Coordinator Adam Hubeny Deputy OEM Coord Fred Rast



6/21/13 & 6/24/13	Web Site Posting	Post One Page Fact Sheet on MCHMP <a href="http://www.ahnj.com">www.ahnj.com</a> web site and hallway public bulletin board	OEM Coordinator Adam Hubeny Web Master Liz @ ZUMU
6/24/13	E-Newsletter	Send e-mail blast to Borough wide e-mail listings (400+) included was the Fact Sheet for MCHMP	AH Municipal Clerk Dwayne Harris
6/24/13	BEMA Meeting	Meet to discuss Outreach Strategy With other Bayshore OEM's via BEMA (10 member towns)	Bayshore Emergency Management Association (BEMA) OEM Coordinator Adam Hubeny
6/25/13	Atlantic Highlands Harbor Meeting	Discussed and made available 2 page "fact sheet" on MCHMP Update	OEM Coordinator Adam Hubeny
6/26/13	Atlantic Highlands Mayor and Council Meeting	Discussed and made available 2 page "fact sheet" on MCHMP Update	OEM Coordinator Adam Hubeny
9/27/13	Posting Review	Review postings and paperwork to add to web site. See <a href="http://www.ahnj.com/departments/emergency">www.ahnj.com/departments/emergency</a> management	OEM Coordinator Adam Hubeny
7/10/13	Mayor & Council Public Meeting	Discussion - Application for Planning Assistant Grant & Mitigation Update Discussion	AH Mayor & Council OEM Coordinator Adam Hubeny



9/2013	Mayor & Council Public Meeting	Discussed in general open meeting the status of the MCHMP.	OEM Coordinator Adam Hubeny AH Mayor & Council
12/2013	Mayor & Council Public Meeting	Discussed in general open meeting the status of the MCHMP.	OEM Coordinator Adam Hubeny AH Mayor & Council
7/9/14	Mayor & Council Public Meeting	Brief discussion in general open meeting on MCHMP being updated.	OEM Coordinator Adam Hubeny AH Mayor & Council
7/29/14	Posting	Include link to <a href="http://MCSO.NJ.org/sections-read-144.html">MCSO.NJ.org/sections-read-144.html</a> on Atlantic Highlands Web page. Other Links and on Emergency Management page.	AH Municipal Clerk Dwayne Harris
Sept & October 2014	Posting / Web Site Update	Website update. Post Draft of Mitigation Plan on Atlantic Highlands Web Site. Also direct those seeking information to Monmouth County Sheriff's Office Web Site – Press Release	OEM Coordinator Adam Hubeny AH Municipal Clerk Dwayne Harris Webmaster Liz @ ZUMU
October & Nov 2014	Public Meeting	Agenda – Workshop. Post and Report at Public Meeting the draft copy is available on <a href="http://AHNJ.com">AHNJ.com</a> and <a href="http://MCSO.NJ.org">MCSO.NJ.org</a>	OEM Coordinator Adam Hubeny AH Municipal Clerk Dwayne Harris

**Please add additional pages as needed and return via email by May 1, 2013 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.**





**Avon-By-The-Sea  
Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**  
*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Avon-By-The-Sea**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
August 7, 2012	Outreach	Fact Sheet handed out and 2009 plan was on-hand for people to look at during National Night Out.	Ken Child, OEM Coordinator Steven Kegelmann, Deputy OEM Coordinator
November 13, 2012	Outreach	Mitigation activities and Updating plan discussed at Borough Meeting	Charley Rooney, Borough Engineer
January 14, 2013	Outreach	Mitigation activities and Updating plan discussed at Borough Meeting	Charley Rooney, Borough Engineer
February 11, 2013	Outreach	Discussed at Borough Meeting. Information Provided and Point of Contact Provided	Timothy Gallagher, Borough Administrator.

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DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
February 25, 2013	Outreach	Discussion with residents during Borough Meeting. Mitigation Activities that were feasible were discussed along with updating the Plan	Mayor Mahon Tim Gallagher, Borough Administrator
March 11, 2013	Discussion with Residents	Discussion with residents during Borough Meeting. Mitigation Activities that were feasible were discussed along with updating the Plan	Mayor Mahon
April 8, 2013	Discussion with Residents	Update on current and upcoming Mitigation Activities during Borough Meeting	Charley Rooney, Borough Engineer
April 22, 2013	Discussion with Residents	Update on current and upcoming Mitigation Activities during Borough Meeting	Charley Rooney
September 23, 2013	Outreach	Updated residents of progress with the plan and offered to meet with anyone interested in seeing the progress	Steven Kegelman, Dept. OEM Coordinator
June 3, 2013	Outreach	Outreach material posted on Borough Bulletin Board	Steven Kegelman, Dept. OEM Coordinator

August 6 2013	Outreach	Fact Sheet handed out and 2009 plan was on-hand for people to look at during National Night Out.	Ken Child, OEM Coordinator Steven Kegelman, Dept. OEM Coordinator
November 4, 2013	Outreach	Outreach Material Printed in Borough Newsletter	Steven Kegelman, Dept. OEM Coordinator
July 14, 2014	Outreach	Updated residents of progress with the plan and offered to meet with anyone interested in seeing the progress	Tim Gallagher, Borough Administrator



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

#### PARTICIPATING JURISDICTION: Belmar, NJ

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
8/20/12	Link to Monmouth County Hazard Mitigation Site	Link to Monmouth County website added to <a href="http://www.belmar.com">www.belmar.com</a>	Belmar Administration
11/10/12	Public Meeting - Residents	Post-Hurricane Public Meeting on FEMA/Insurance/Hazard Mitigation, plan update, funding options	Belmar Administration
11/13/12	Public Meeting - Residents	Post-Hurricane Public Meeting on FEMA/Insurance/Hazard Mitigation, plan update, funding options	Belmar Administration
11/14/12	Public Meeting - Businesses	Post-Hurricane Public Meeting on FEMA/Insurance/Hazard Mitigation, plan update, funding options	Belmar Administration
11/21/12	Meeting of Mayor & Council	Belmar's Hazard Mitigation projects discussed in detail. Funding options and collaboration, mitigation plan update	Belmar Mayor & Council, Administration

3/14/13	Community Meeting – Rhode Island Point Community	Discussed Belmar's Hazard Mitigation projects with residents, plan update discussed	Belmar Mayor & Administration, Public Works, OEM and Belmar Police Dept.
3/16/13	Public Meeting – Residents	Elevation Workshop: Flood Zones & Residential Home Construction/Repair Hazard mitigation plan	Belmar Flood Plane Administrator, Belmar Administration
June 2013	Press Release	Posted Hazard Mitigation Press Release encouraging input to <a href="http://www.belmar.com">www.belmar.com</a> and emailed local media and stakeholders.	Belmar Administration
8/1/13	Community Meeting – Silver Lake Community	Discussed Belmar's Hazard Mitigation projects with residents, funding options, hazard mitigation plan update	Belmar Mayor & Administration
2/11/14	Community Meeting – Silver Lake Community	Discussed Belmar's Hazard Mitigation projects with residents, funding options, hazard mitigation plan update	Belmar Administration, OEM & Public Works
March 4, 2014	Press Release	Posted County Hazard Mitigation Plan update process to <a href="http://www.belmar.com">www.belmar.com</a> and media/stakeholders list.	Belmar Administration

3/28/14	Community Meeting – Lake Como Community	Discussed Belmar’s Hazard Mitigation projects with residents, funding options, hazard mitigation plan update	Belmar Administration
April 2014	Fact Sheet	Posted at all Belmar Municipal Properties	Belmar Administration/Belmar OEM
5/15/14	Community Meeting – Rhode Island Point Community	Discussed Belmar’s Hazard Mitigation projects with residents, funding options, hazard mitigation plan update	Belmar Mayor & Administration, Public Works, OEM and Belmar Police Dept.
July 2014	Fact Sheet – July 2014	Posted on <a href="http://www.belmar.com">www.belmar.com</a>	Belmar Administration/Belmar OEM
9/15/14	Public Meeting – Belmar Planning Board	At meeting, notification to residents regarding pending and or actual release of the draft hazard mitigation plan, refer residents to County website to review the updated plan, feedback encouraged	Belmar Planning Board Chairman
10/20/14	Public Meeting – Belmar Planning Board	At meeting, notification to residents regarding pending and or actual release of the draft hazard mitigation plan, refer residents to County website to review the updated plan, feedback encouraged	Belmar Planning Board Chairman

11/17/14	Public Meeting – Belmar Planning Board	At meeting, notification to residents regarding pending and or actual release of the draft hazard mitigation plan, refer residents to County website to review the updated plan, feedback encouraged	Belmar Planning Board Chairman
12/15/14	Public Meeting – Belmar Planning Board	At meeting, notification to residents regarding pending and or actual release of the draft hazard mitigation plan, refer residents to County website to review the updated plan, feedback encouraged	Belmar Planning Board Chairman

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:   BOROUGH OF BRADLEY BEACH (1 of 3)**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
OCT 15 2012	OUTREACH	Press release advising residents to complete online survey to assist in dealing with natural disasters as part of the Hazard Mitigation Plan Update process	OEM Coordinator, OEM Deputy Coordinator
OCT 16, 2012	OUTREACH	Public notification at Council Meeting advising of the online survey. Public was notified that this is part of the Hazard Mitigation Plan Update	OEM Coordinator, OEM Deputy Coordinator
OCT 16, 2012	OUTREACH	Link BB website to Monmouth County Mitigation Planning page	OEM Coordinator, OEM Deputy Coordinator
NOV 7, 2012	OUTREACH	Public notices regarding Sandy Survey Data placed in Borough reception area and the fact sheet concerning the Hazard Mitigation Plan update was posted in all Borough Offices	Borough Administrator
NOV 9, 2012	OUTREACH	Sandy Survey Data added to Borough Web Site including advising residents to review the Hazard Mitigation Plan update process as well as a link to the County OEM site	Borough Clerk

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: BOROUGH OF BRADLEY BEACH (2 of 3)**\_\_\_\_\_

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
Jan 3, 2013	OUTREACH	Attended public meeting of Fletcher Lake Commission and reported updates on lake overflow status as well as discussing Hazard Mitigation Plan updates for grant funding	OEM Deputy Coordinator/Councilman Norman Goldfarb
JAN 23, 2013	OUTREACH/DISCUSSION WITH RESIDENTS	The Mayor and Council adopted a resolution waiving Building Permit fees for Sandy repairs. The Hazard Mitigation Plan update process was also discussed	OEM Deputy Coordinator/Councilman Norman Goldfarb, Mayor and Council
FEB 27, 2013	DISCUSSION WITH RESIDENTS AT COUNCIL MEETING	Councilman Goldfarb (OEM Deputy Coordinator) reported on his attendance at the Environmental Commission meeting with updates on beachsweep, Sandy debris and Hazard Mitigation Plan Update	OEM Deputy Coordinator/Councilman Goldfarb
MAR 22, 2013	DISCUSSION WITH RESIDENTS AT COUNCIL MEETING	Updates provided on FEMA items: closing of the Belmar recovery center, and advice on how to proceed with claims as well as Hazard Mitigation Plan updates for future funding	OEM Deputy Coordinator/Councilman Goldfarb

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:   BOROUGH OF BRADLEY BEACH (3 of 3)**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
FEB – MAY 2014	OUTREACH  (ONGOING)	<u>Weekly</u> public update meetings held by Army Corps of Engineers regarding beachfront replenishment progress. In addition Hazard Mitigation plan update was discussed	OEM Coordinator, OEM Deputy Coordinators, Borough Administrator, Public Works Supervisor and members of the public
JUL 2014	OUTREACH	Link to Monmouth County OEM Website added to Borough Site (original link was lost in the transition to a new site), this link will aid the public's knowledge of the Hazard Mitigation Plan Update	OEM Deputy Coordinator and Borough Clerk
AUGUST 5, 2014	OUTREACH	Hazard Mitigation Fact Sheet will be posted in all Borough Public Facilities and distributed at BB National Night Out/Community Event. Discuss plan update with any/all interested residents.	OEM Coordinator , OEM Deputy Coordinator, Councilman
Sept/Oct/Nov 2014	OUTREACH	Notification of Draft Release via BB website, link to County website.  Announcement of Draft Plan release at 1 Council meeting each month.	OEM Coordinator , OEM Deputy Coordinator, Councilman  Councilman

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Borough of Brielle**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
March 4, 2014	Community Outreach	Posted on <b>Community Website</b> ; Press Release Monmouth County Sheriff's Office – Plan update Process	Floodplain Administrator, Key and Elected officials
March 4, 2014	Community Outreach	Posted on <b>Community Bulletin Board</b> ; Press Release Monmouth County Sheriff's Office – Plan update Process	Floodplain Administrator, Key and Elected officials
April 2, 2014	Letter and Fact Sheet to Municipal Officials and Stakeholders	Discussed plan update process worksheet 7	Floodplain Administrator, Key and Elected officials
July 15, 2014	Community Outreach	Posted on <b>Community Website</b> ; Provided link to County OEM website	Floodplain Administrator, Key and Elected officials

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Borough of Brielle**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
July 15, 2014	Community Outreach	Posted on <b>Community Website</b> ; Plan Fact Sheet July 2014 Mon. Co. Multi-Jurisdictional Plan Update	Floodplain Administrator, Key & Elected Officials
August, 2014	Community Outreach	Council Meeting explaining Hazard Mitigation Plan <b><i>This Meeting will be opened to public comment</i></b>	Floodplain Administrator, Key and Elected officials
September 6, 2014	Community Outreach	Will Post at <b>Brielle Day OEM Table</b> ; Press Release Monmouth County Sheriff's Office – Plan Update	Floodplain Administrator, Key and Elected Officials
September, 2014	Community Outreach	Council Meeting explaining Hazard Mitigation Plan <b><i>This Meeting will be opened to public comment</i></b>	Floodplain Administrator, Key and Elected officials

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Borough of Brielle**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
October, 2014	Community Outreach	Council Meeting explaining Hazard Mitigation Plan <b><i>This Meeting will be opened to public comment</i></b>	Floodplain Administrator, Key and Elected officials
October, 2014	Community Outreach	Will Post on <b><i>Community Website</i></b> ; Plan Fact Mon. Co. Multi-Jurisdictional Plan Update	Floodplain Administrator, Key and Elected officials

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: *Borough of Brielle*

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
August 2, 2012	Community Outreach	Posted on <b>Community Bulletin Board</b> ; Press Release Monmouth County Sheriff's Office – Plan update Process June 29, 2012	Floodplain Administrator, Key and Elected Officials
October 19, 2012	Community Outreach	Posted on <b>Community Bulletin Board</b> ; Press Release Monmouth County Sheriff's Office – Plan update Process October 15, 2012	Floodplain Administrator, Key and Elected Officials
May 28, 2012	Community Outreach	Posted on <b>Community Bulletin Board</b> ; Press Release Monmouth County Sheriff's Office – Plan update Process May, 2012 Fact Sheet	Floodplain Administrator, Key and Elected Officials
September 15, 2012	Community Outreach	Posted at <b>Brielle Day OEM Table</b> ; Press Release Monmouth County Sheriff's Office – Plan update Process	Floodplain Administrator, Key and Elected Officials

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Borough of Brielle**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
May 15, 2013	Letter and Fact Sheet to Municipal Officials and Stakeholders	Discussed plan update process worksheets 1 thru 4	Floodplain Administrator, Key and Elected Officials
June 11, 2013	Letter and Fact Sheet to Municipal Officials and Stakeholders	Discussed plan update process worksheet 5	Floodplain Administrator, Key and Elected Officials
September 14, 2013	Community Outreach	Posted at <b>Brielle Day OEM Table</b> ; Press Release Monmouth County Sheriff's Office – Plan Update	Floodplain Administrator, Key and Elected Officials
October 18, 2013	Letter and Fact Sheet to Municipal Officials and Stakeholders	Discussed plan update process Worksheet 6	Floodplain Administrator, Key and Elected Officials

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:**

**Colts Neck Township**

<b>DATE OF ACTIVITY</b>	<b>TYPE OF ACTIVITY</b>	<b>ACTIVITY DETAILS</b>	<b>LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY</b>
5/2/2014	Set up display of fact sheets	A display of fact sheets set up in the Colts Neck library at the information display table, available for residents to pick up	Health Department Health Officer
6/7/2014	Set up display of fact sheets	Copies of fact sheets are on display and available to pick up in the Health Department's informational kiosk.	Health Department Health Officer
7/9/2014	Copy of fact sheet displayed on municipal web site	Access to fact sheets are displayed on both the Colts Neck OEM and Health Dept web page.	Health Department Health Officer
7/10/2014	Set up display of fact sheets	Copies of fact sheets provided in the lobby of the Colts Neck Police Barracks for residents to pick up	Health Department Health Officer
July 10-13, 2014	A display of fact sheets set up at the Annual Colts Neck Fair	The display of fact sheets were provided and set up at the entrance to the fair for residents to pick up	Health Department Health Officer



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Colts Neck Township**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
7/2/2014	Posted information regarding the mitigation plan on the Colts Neck health Department website	A copy of the fact sheet has been posted on our web site for review by township residents	Health Department Health Officer
7/7/2014	Posted information regarding mitigation plan on Colts Neck's OEM website	A copy of the fact sheet has been posted on our web site for review by township residents	Health Department Health Officer
7/10/2014	Provided residents with a link to the County OEM to obtain further insight about the County Mitigation Plan.	This link will be available on both the Colts Neck Health Department and Colts Neck OEM web pages	Health Department Health Officer
August/Sept/Oct/November 2014	Notify residents of draft plan release on Township website	Post on the website the pending and actual release of the draft hazard mitigation plan for review. Link residents to the County hazard planning page	Health Department Health Officer
August/Sept/Oct/November 2014	Notify residents of draft plan release at Three (3)Public Township meeting each month	At a public meeting each month, notify residents of pending and actual draft plan release for review. Link residents to the County hazard planning page	Health Department Health Officer Board of Health members Planning Board Members Township Council members

**Please add additional pages as needed and return via email by October 21, 2013 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.**



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

#### PARTICIPATING JURISDICTION: BorMugh M Deal

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
7/31/2012	Kickoff Meeting	Attended kickoff meeting / obtained goals, objectives, literature	Monmouth County OEM, Deal OEM coordinator and Deal Deputy OEM coordinator.
8/3/2012	Website additions	Added hazard mitigation link and Monmouth County OEM link to Deal Police website and Deal Borough website	Deal OEM coordinator and Deal Deputy OEM coordinator.
8/3/2012	Fact Sheet	Posted at Borough Hall, Posted at Deal Police Headquarters, Posted at Deal Fire Headquarters	Deal OEM coordinator and Deal Deputy OEM coordinator.
10/3/2012	Municipal Commissioners Meeting	Discussed hazard mitigation plan update and possible funding potential at Public Meeting	Deal OEM coordinator and Deal Deputy OEM coordinator.
12/15/2012	Letter to stakeholders	Sent letter to Deal Fire Department, Deal First Aid Squad, and Deal Public Works as well as local businesses advising them of mitigation and requesting their input.	Deal OEM coordinator and Deal Deputy OEM coordinator.



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

1/17/2013	Deal OEM Meeting	Discussed mitigation at Post-Sandy OEM meeting	Deal OEM coordinator and Deal Deputy OEM coordinator.
1/22/2013	Municipal Commissioners Meeting	Discussed Hazard Mitigation Draft Plan, potential funding, and release of plan at regular meeting of commissioners. Provided website for review and copies of press release for residents.	Deal OEM coordinator and Deal Deputy OEM coordinator.
2/11/2013	Municipal Commissioners Meeting	Discussed Hazard Mitigation Draft Plan, potential funding, and release of plan at regular meeting of commissioners. Provided website for review and copies of press release for residents.	Deal OEM coordinator and Deal Deputy OEM coordinator.
2/25/2013	Municipal Commissioners Meeting	Discussed Hazard Mitigation Draft Plan, potential funding, and release of plan at regular meeting of commissioners. Provided website for review and copies of press release for residents.	Deal OEM coordinator and Deal Deputy OEM coordinator.

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

#### PARTICIPATING JURISDICTION: Borough of Deal

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
April 10, 2013	Key & Elected Officials Plan Update	Discussed plan update process worksheet 2	Floodplain Manager, Key and Elected Officials
May 15, 2013	Key & Elected Officials Plan Update	Discussed Hazard Mitigation Draft Plan, potential funding, and release of plan at regular meeting of commissioners. Provided website for review and copies of press release for residents.	Deal OEM coordinator and Deal Deputy OEM coordinator.
June 12, 2013	Key & Elected Officials Plan Update	Discussed Hazard Mitigation Draft Plan, potential funding, and release of plan at regular meeting of commissioners. Provided website for review and copies of press release for residents.	Deal OEM coordinator and Deal Deputy OEM coordinator.
July 16, 2013	Key & Elected Officials Plan Update	Discussed plan update process worksheets 5 & 6	Floodplain Manager, Key and Elected Officials
August 6, 2013	Key & Elected Officials Plan Update	Discussed plan update process Worksheets 5 & 6	Floodplain Manager, Key and Elected Officials



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

October 9, 2013	Key & Elected Officials Plan Update	Discussed plan update process Worksheets 5 & 6	Floodplain Manager, Key and Elected Officials
December 11, 2013	Municipal Commissioners Meeting	Discussed Hazard Mitigation Draft Plan, potential funding, and release of plan at regular meeting of commissioners. Provided website for review and copies of press release for residents	Deal OEM coordinator and Deal Deputy OEM coordinator.
January 8, 2014	Municipal Commissioners Meeting	Discussed Hazard Mitigation Draft Plan, potential funding, and release of plan at regular meeting of commissioners. Provided website for review and copies of press release for residents	Deal OEM coordinator and Deal Deputy OEM coordinator.
February 12, 2014	Municipal Commissioners Meeting	Discussed Hazard Mitigation Draft Plan, potential funding, and release of plan at regular meeting of commissioners. Provided website for review and copies of press release for residents	Deal OEM coordinator and Deal Deputy OEM coordinator.
March 11, 2014	Stakeholder Meeting	Discussed plan update process and revisions for worksheet 7	Floodplain Manager, Key and Elected Officials



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

April 5, 2014	Regular Public Meeting Borough Commission	Mitigation plan update public information on worksheet 7 and current projects	Floodplain Manager, Key and Elected Officials
May 14, 2014	Municipal Commissioners Meeting	Discussed Hazard Mitigation Draft Plan, potential funding, and release of plan at regular meeting of commissioners. Provided website for review and copies of press release for residents	Deal OEM coordinator and Deal Deputy OEM coordinator.
July 15, 2014	Community Outreach	Posted on <b>Community Website</b> ; Plan Fact Sheet July 2014 Mon. Co. Multi-Jurisdictional Plan Update	Floodplain Manager
July 15, 2014	Community Outreach	Posted on <b>Community Website</b> ; Provided link to County OEM website	Floodplain Manager
August 2014	Deal Borough Website	Will post pending draft plan or actual release	Deal OEM coordinator and Deal Deputy OEM coordinator.



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

August 2014	Regular Public Meeting Deal Commissioners	Hazard mitigation plan update will be discussed. Draft plan or actual release will be discussed. Fact sheet will be available	Deal OEM coordinator and Deal Deputy OEM coordinator.
September 2014	Regular Public Meeting Deal Commissioners	Hazard mitigation plan update will be discussed. Draft plan or actual release will be discussed. Fact sheet will be available	Deal OEM coordinator and Deal Deputy OEM coordinator.
October 2014	Regular Public Meeting Deal Commissioners	Hazard mitigation plan update will be discussed. Draft plan or actual release will be discussed. Fact sheet will be available	Deal OEM coordinator and Deal Deputy OEM coordinator.
November 2014	Regular Public Meeting Deal Commissioners	Hazard mitigation plan update will be discussed. Draft plan or actual release will be discussed. Fact sheet will be available	Deal OEM coordinator and Deal Deputy OEM coordinator.

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: \_\_\_\_\_ Eatontown\_\_1\_\_

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
Sept 5 2012	Fact Sheet distributed	Monmouth County Mitigation Plan Update fact Sheet posted in all Borough offices, copies available for residents to pick up	OEM Coordinator, Municipal Officials
Nov 10 2012	Updated Municipal Website	Place link on Eatontown website to Monmouth County OEM, Hazard Mitigation Planning webpage	OEM Coordinator and Boro Human Resources
Dec 4 2012	Mitigation Meeting	Discussed SS Sandy and how the ongoing hazard mitigation plan update will assist with flooding issues in town and has potential funding opportunities	OEM Coordinator, Fire and EMS officials, DPW, Administration, Building/Construction Official
Jan 22 2013	Mitigation Meeting	Continue discussions regarding flooding issues and potential mitigation of Clinton Ave and Eatontown Crest Apartments, hazard mitigation plan update discussion continued	OEM Coordinator, Fire and EMS officials, DPW, Administration, Building/Construction Official

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: Eatontown 2

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
Feb 15 2013	Mitigation Meeting	Continue discussions regarding flooding issues and potential mitigation of Clinton Ave and Eatontown Crest Apartments, hazard mitigation plan update discussed	OEM Coordinator, DPW, Building Department, Borough Engineer, Borough Administration Staff
April 16 2013	Council Meeting/Open Public meeting	Mayor and Council discussed the hazard mitigation plan update as well as general Borough issues	OEM Coordinator, Mayor and Council, Borough Engineer, Residents, Borough officials, residents
May 10 2013	Public Information	Posted Hazard Mitigation Plan update Fact Sheet on public bulletin boards and posted in all Borough Public Buildings, copies available for residents to pick up	OEM Coordinator and Deputy Coordinator
May 22 2013	Mitigation meeting	Discuss with various municipal departments on the hazard mitigation plan update, especially Clinton Ave and Eatontown Crest Apartments	OEM Coordinator, DPW, Building Dept, Eatontown Crest Management, DOT, engineer, Borough Administration Staff

Aug 6 2013	Mitigation meeting	Discuss with various municipal departments the township on the hazard mitigation plan update as well as general borough issues	OEM Coordinator, Fire Chief, EMS Captain, Borough engineer, Administration staff, DPW
Oct. 9 2013	Public Information	Community Day OEM passed out fact sheets to residents and discussed hazard mitigation plan update with residents and stakeholders	OEM Coordinator, Deputy OEM Coordinator
Oct. 17 2013	Stakeholder meeting	Discuss with various municipal departments on the hazard mitigation plan update as well as general borough issues, Website update discussed	OEM Coordinator, Deputy OEM Coordinator Fire Chief, EMS Captain, Construction Official, DPW Director and IT Manager
Nov 21 2013	Website update	Updated Boro website with hazard mitigation plan information/update, Fact Sheet	OEM Coordinator, Clerk, IT
Feb 5 2014	Mitigation Fact Sheet	Re-posted in all municipal borough public buildings, copies available for residents to pick up	Deputy OEM Coordinator
Mar 25 2014	Municipal Resolution Draft	Started to work on drafting a municipal resolution revising the existing Hazard Mitigation Plan, to an agenda at Borough Council/Public meeting	Borough Clerk, OEM Coordinator

<p>Aug 11 2014</p>	<p>Stakeholder Meeting</p>	<p>Review mitigation plan update with stakeholders</p>	<p>OEM, Fire, First Aid, Building Dept, DPW, engineer, Administration staff</p>
<p>Sept/Oct/ Nov/Dec 2014</p>	<p>Public Outreach/Borough Council meetings</p>	<p>Notification of draft plan release will be posted on Borough website and discussed at one council/public meeting each month. Residents will be directed to the County website to review the draft hazard mitigation plan.</p>	<p>OEM Coordinator, Deputy OEM Coordinator, Mayor and Council, engineer, Administration staff, planning board staff</p>



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** BorMugh M Englishtown

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
August 2012	Fact Sheet distributed	Monmouth County Mitigation Plan Update fact Sheet posted on public bulletin board inside Borough Hall, copies available for residents to pick up	Municipal OEM Coordinator
September 2012	Website updated	Linked Englishtown OEM website to the Monmouth County Sheriff's Office, OEM, Hazard Mitigation Planning webpage	Municipal OEM Coordinator, IT
October 2012	Stakeholder Meeting	Discussed with Borough Department Heads and Local Businesses the hazard mitigation plan update	Municipal OEM Coordinator, Department Heads, Business representatives
November 2012	Stakeholder Meeting	Discussed with Borough Fire Department Line Officers the hazard mitigation plan update	Municipal OEM Coordinator
April 24 2013	Council/Public Meeting	Mayor and Council Discussed the hazard mitigation plan update, process resumed after SS Sandy through Monmouth County OEM, general Borough business	Mayor and Council, Municipal OEM Coordinator, Borough Clerk, Borough Engineer, residents

May 22, 2013	Council/Public Meeting	Mayor and Council discussed the hazard mitigation plan update, general Borough business	Mayor and Council, Municipal OEM Coordinator, Borough Clerk Borough Engineer, residents
July 2013	Stakeholder Meeting	Discussed with DPW Foreman the hazard mitigation plan update	Municipal OEM Coordinator
October 2013	Fact Sheet distributed	Monmouth County Mitigation Plan Update fact Sheet posted on public bulletin board inside Borough Hall, copies available for residents to pick up	Municipal OEM Coordinator
February 26, 2014	Council/Public Meeting	Mayor and Council discussed the hazard mitigation plan update, general Borough business	Mayor and Council, Municipal OEM Coordinator, Borough Clerk Borough Engineer, residents
May 2014	Fact Sheet distributed	Monmouth County Mitigation Plan Update fact Sheet posted on public bulletin board inside Borough Hall, copies available for residents to pick up	Municipal OEM Coordinator
August 27, 2014	Council/Public Meeting	Notify residents of draft plan release in early Fall	Mayor and Council, Municipal OEM Coordinator, Borough Clerk, Borough Engineer, residents
September/October/November 2014	Website updated	Post link to Press Release from Monmouth County Sheriff's Office announcing Draft Hazard Mitigation Plan release on Englishtown OEM website and post in Borough Hall	Municipal OEM Coordinator, IT
September/October/November 2014	Council/Public Meeting	Notify Residents of Draft Plan release, available on website for review	Mayor and Council, Municipal OEM Coordinator, Borough Clerk, Borough Engineer, residents

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: FAIR HAVEN 1**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
AUGUST 6, 2012	FACT SHEET DISTRIBUTED	MONMOUTH CTY MITIGATION PLAN UPDATE FACT SHEET POSTED AND COPY'S LEFT AT BOROUGH HALL	OEM COORDINATOR
AUGUST 6, 2012	WEBSITE UPDATED	FAIR HAVEN OEM WEBSITE LINKED WITH MONMOUTH CTY MITIGATION PLANNING WEBSITE	OEM COORDINATOR
AUGUST 7, 2012	COMMUNITY/PUBLIC EVENT	MONMOUTH CTY MITIGATION PLAN UPDATE FACT SHEET POSTED DISTRIBUTED DURING COMMUNITY EVENT (NATIONAL NIGHT OUT), DISCUSSED WITH RESIDENTS	OEM COORDINATOR
AUGUST 21, 2012	STAKEHOLDER MEETING	DISCUSS HAZARD MITIGATION PLAN UPDATE WITH FAIR HAVEN BOARD OF EDUCATION	OEM COORDINATOR, FIR HAVEN SCHOOLO DISTRICT BUSINESS ADMINISTRATOR AND STAFF
APRIL 9, 2013	PUBLIC MEETING	COUNCIL MEETING TO DISCUSS SANDY MITIGATION AND THE HAZARD MITIGATION PLAN UPDATE	OEM COORDINATOR, BOROUGH ENGINEER

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: FAIR HAVEN 2

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
JUNE 11, 2013	WEBSITE UPDATED	FAIR HAVEN OEM WEBSITE LINKED WITH MONMOUTH CTY MITIGATION PLANNING WEBSITE	OEM COORDINATOR
AUGUST 6, 2013	COMMUNITY/PUBLIC EVENT	MONMOUTH CTY MITIGATION PLAN UPDATE FACT SHEET POSTED DISTRIBUTED DURING COMMUNITY EVENT (NATIONAL NIGHT OUT), DISCUSSED WITH RESIDENTS	OEM COORDINATOR
AUGUST 2, 2013	MITIGATION MEETING	DISCUSS FLOODING ISSUES AND THE HAZARD MITIGATION PLAN UPDATE WITH BOROUGH ENGINEER, PLANNING BOARD	OEM COORDINATOR, BOROUGH ENGINEER, PLANNING BOARD
OCTOBER 16, 2013	FACT SHEET DISTRIBUTED	MONMOUTH CTY MITIGATION PLAN POSTED AND COPIES LEFT AT BOROUGH HALL	OEM COORDINATOR

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: \_\_ FAIR HAVEN \_\_\_\_ 3 \_\_\_\_**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
JUNE 2,2014	PUBLIC MEETING	DURING BOROUGH COUNCIL PUBLIC MEETING HAZARD MITIGATION PLAN WAS DISCUSSED WITH STAKEHOLDERS AND RESIDENTS	OEM COORDINATOR
AUGUST 5, 2014	COMMUNITY/PUBLIC EVENT	MONMOUTH CTY MITIGATION PLAN UPDATE FACT SHEET POSTED DISTRIBUTED DURING COMMUNITY EVENT (NATIONAL NIGHT OUT), DISCUSSED WITH RESIDENTS	OEM COORDINATOR
SEPTEMBER 2014	PUBLIC MEETING	DURING PLANNING BOARD MEETING HAZARD MITIGATION PLAN UPDATE WAS DISCUSSED WITH STAKEHOLDERS AND RESIDENTS	OEM COORDINATOR
OCTOBER/NOVEMBER 2014	WEBSITE UPDATED	NOTIFY RESIDENTS THE DRATF PLAN IS AVAILABLE FOR REVIEW	OEM COORDINATOR
OCTOBER/NOVEMBER 2014	PUBLIC MEETINGS	NOTIFY RESIDENTS THE DRATF PLAN IS AVAILABLE FOR REVIEW	OEM COORDINATOR/BOROUGH ENGINEER



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Howell Township & Farmingdale Borough**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
9/4/2012	Posted Fact Sheet	Posted Fact Sheet on Public Bulletin Board in Farmingdale Borough Hall (made copies available for residents)	OEM Deputy Coordinator
2/8/2013	Posted Fact Sheet	Posted Fact Sheet on Public Bulletin Board in Howell Township Municipal Building (made copies available for residents)	OEM Deputy Coordinator
2/19/2013	Regular Public Meeting at Farmingdale Borough Council	Hazardous Mitigation Plans Discussed	OEM Deputy Coordinator/Council Members

**Please add additional pages as needed and return via email by July 18, 2014 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.**



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Howell Township & Farmingdale Borough**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
2/25/2013	Regular Public Meeting: Farmingdale Planning/Zoning Board	Hazard Mitigation Plan Discussed	OEM Deputy Coordinator/Planning Board Members
4/9/2013	Distributed Fact Sheet	Posted Fact Sheet on Farmingdale Community Center Bulletin Board; Made Fact Sheet Available for Residents	OEM Deputy Coordinator
5/10/2013	Open Discussion	Held Open Discussion at Brandywine Senior Living; Made Fact Sheet Available for Residents	OEM Coordinator/OEM Deputy Coordinator
7/6/2013	Distributed Fact Sheet	Distributed Fact Sheet to Residents at "Howell Day" Event	OEM Coordinator/OEM Deputy Coordinator

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Howell Township & Farmingdale Borough**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
7/27/2013	Distributed Fact Sheet	Distributed Fact Sheet to Residents at "Hurricane Preparedness Awareness" Event	OEM Coordinator/OEM Deputy Coordinator
8/6/2013	Distributed Fact Sheet	Distributed Fact Sheet to Residents at "National Night Out" Event	OEM Coordinator/OEM Deputy Coordinator
9/10/2013	Regular Public Meeting at Howell Township Council	Hazardous Mitigation Plans Discussed	Deputy Mayor/OEM Liaison
10/5/2013	Distributed Fact Sheet	Distributed Fact Sheet to Residents at "Farmingdale Community Day & Car Show" Event	OEM Deputy Coordinator

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Howell Township & Farmingdale Borough**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
11/15/2013	Added Hazardous Mitigation Link to Howell Township Website	Added Link on Howell OEM Section of Township's Website	OEM Deputy Coordinator
11/18/2013	Added Hazardous Mitigation Questionnaire Link to Howell Township Website	Added Link on Howell OEM Section of Township's Website	OEM Deputy Coordinator
1/21/2014	Regular Public Meeting at Howell Township Council	Hazardous Mitigation Plans Discussed	Deputy Mayor/OEM Liaison
7/16/2014	Mass Mailing to Residents	In Annual Mailing to Residents: Advised Residents to Visit Howell Township & Monmouth County Websites for More Information on Hazardous Mitigation Plan	OEM Coordinator

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: \_\_\_\_ Freehold Borough #1 \_\_\_\_

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
September 2012	Fact Sheet Distributed	Monmouth County Mitigation Plan Fact Sheet posted in Municipal Buildings	OEM Coordinator
October 2012	Fact sheet Distributed	Monmouth County Mitigation Plan Fact Sheet Posted in Fire Headquarters	OEM Coordinator
December 12, 2012	After Action Meeting	Discussion of SS Sandy and the Hazard Mitigation Plan update with structural damage from fallen trees throughout Freehold Borough during wind/storm events	OEM Coordinator, Deputy OEM Coordinator, Mayor, Council Members, Police Department, Fire Department, EMS, Streets and Roads Department.
February 4, 2013	Council Meeting	Discuss Hazard Mitigation Plan Update	OEM Coordinator

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: Freehold Borough #2

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
June 14, 2013	Local Emergency Planning Meeting	Discussion of 2013 Emergency Operations Plan and Hazard Mitigation Plan Update	OEM Coordinator, Deputy OEM Coordinator and LEPC Committee Members.
August 13, 2013	Mitigation Meeting	Discussion of Flood damage Prevention Plan and Hazard Mitigation Plan	OEM Coordinator, Deputy OEM Coordinator, Borough Business Administrator
October 9, 2013	Stakeholder Meeting	Discuss with different Municipal Departments within Borough about Hazard Mitigation Plan update	OEM Coordinator
December 4, 2013	Public information	Posted Details on Hazard Mitigation Plan Update on public bulletin boards.	OEM Coordinator

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** \_\_\_\_\_ Freehold Borough #3 \_\_\_\_\_

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
February 6, 2014	Local Emergency Planning Committee Meeting	Discussion of upcoming weather event and Hazard Mitigation Plan Update.	OEM Coordinator, Deputy OEM Coordinator and LEPC Committee Members.
June 2014	Website Updated	Post Fact Sheet on Freehold Borough Website	OEM Coordinator
July 2014	Website Updated	Linked Freehold Borough Website to Monmouth County Sheriff's office OEM Hazard Mitigation Planning Webpage	OEM Coordinator
Sept/Oct/ Nov 2014	Website updated	Post Draft hazard mitigation Plan on Freehold Borough Website for residents to review.	OEM Coordinator
Sept/Oct/ Nov 2014	Public Meeting(s)	At Council meetings, on agenda and notify residents of the draft plan release and direct them to the website to review	OEM Coordinator, Council

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** FREEHOLD TOWNSHIP 1

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
08/13/2012	News Release	News release issued to News Transcript, Freehold Patch and other media outlets regarding Freehold Township's participation in the Hazard Mitigation Plan update.	OEM Coordinator
07/25/2012 Through 0729/2012	Fact Sheet Distribution and Public Outreach	Hazard Mitigation Plan fact sheets distributed at the Monmouth County Fair in Freehold Township affording residents and stakeholders an opportunity to speak directly with OEM representatives and other involved participants.	MCOEM
09/12/2012	Fact Sheet Distribution	Copies of Hazard Mitigation Plan displayed in the main public lobby of town hall and outside the public meeting room for Township Committee, Planning Board and Zoning Board public meetings.	OEM Coordinator
October 2012	Public Meeting	Hazard Mitigation Plan update participation and synopsis of planning and review processed mentioned at open public Township Committee meeting.	OEM Coordinator

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** FREEHOLD TOWNSHIP 2

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
10/30/2012	Public Presentation and Fact Sheet Distribution	Hazard Mitigation Plan update discussed with residents at police department and fact sheet distributed in conjunction with Hurricane Sandy response and recovery program.	OEM Coordinator
November 2012	Public Meeting	Hazard Mitigation Plan update discussed at open public Zoning Board meeting.	OEM Coordinator
07/13/2013	Public outreach and Fact Sheet Distribution at community event	Hazard Mitigation Plan fact sheets distributed and available at Freehold Township Day affording residents and stakeholders the opportunity to speak one-on-one with OEM representatives.	OEM Coordinator
07/24/2013 Through 07/28/2013	Fact Sheet Distribution and Public Outreach	Hazard Mitigation Plan fact sheets distributed at the Monmouth County Fair in Freehold Township affording residents and stakeholders an opportunity to speak directly with OEM representatives and other involved participants.	MCOEM

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: FREEHOLD TOWNSHIP 3 \_\_\_\_\_**

<b>DATE OF ACTIVITY</b>	<b>TYPE OF ACTIVITY</b>	<b>ACTIVITY DETAILS</b>	<b>LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY</b>
September 2013	Public Meeting	Hazard Mitigation Plan update discussed at open public meeting of the Freehold Township Planning Board	OEM Coordinator
11/12/2013	News Release	News release issued to News Transcript, Freehold Patch and other media outlets advising residents and stakeholders of Hazard Mitigation Plan update information posted on the Monmouth County OEM website.	OEM Coordinator
November 2013	Website Posting	Hazard Mitigation Plan update information listed on Freehold Township website encouraging residents view the planning process through the link provided to the MCSO hazard planning page	OEM Coordinator
January 2014	Public Meeting	Hazard Mitigation Plan discussed at open public meeting of Freehold Township Committee.	OEM Coordinator



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** FREEHOLD TOWNSHIP \_4\_

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
March 2014	Website Posting	Updated information regarding Hazard Mitigation Plan update and current status posted on home page of Freehold Township website offering residents and stakeholders an opportunity to review Hazard Mitigation Plan update documents.	OEM Coordinator
07/23/2014 Through 07/26/2014	Fact Sheet Distribution and Public Outreach	Hazard Mitigation Plan fact sheets distributed at the Monmouth County Fair in Freehold Township affording residents and stakeholders an opportunity to speak directly with OEM representatives and other involved participants.	MCOEM
08/05/2014	Public outreach and Fact Sheet Distribution at community event	Hazard Mitigation Plan fact sheets distributed and residents and stakeholders afforded an opportunity to discuss plan details with OEM personnel. Freehold Township National Night Out	OEM Coordinator
September and October 2014	Public meeting(s)	Notification of Draft Plan release at Township Committee meeting in September and October. Residents directed to Township website for link to review.	OEM Coordinator Township Administrator



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: HAZLET TWP.**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
8/2012	Hazard Mitigation information on Web Page	Posted on Hazlet OEM web page	OEM Coordinator
1/2013	Hazard Mitigation Information on social media	Posted on Hazlet OEM Facebook page.	OEM Coordinator
2/19/2013	Hazard Mitigation Information	Information distributed to public at Township meeting and discussed at meeting.	OEM Coordinator / Mayor
5/22/2013	Bayshore Emergency Management Association Public meeting for Hazard Mitigation Plan Update	Panel discussion, questions answered from public, Fact Sheet distributed	BEMA, OEM Coordinator
10/8/2013	Fact Sheets Hazlet Day	Distributed during annual Hazlet Day Discussion with residents	OEM Coordinator
2/18/2014	Fact Sheets Twp. meeting discussion	Posted in municipal building Discussed at public Twp. meeting.	OEM Coordinator
4/2014	Hazard Mitigation information on Web Page	Press release posted on Township Web page. Discussion at Twp. public meeting	Twp. Administrator / OEM Coordinator
7/11/14	Hazard Mitigation Information	Table set up at Hazlet Swim Club. Face to face discussions on Mitigation Plan with residents	OEM

HAZLET

8/22/14	Hazard Mitigation Information	Twp. Classic Car show. Table set up to distribute fact sheets to residents and discussion.	OEM
9/27/14	Hazard Mitigation Information	Distribute fact sheets during annual Hazlet Day Discussion with residents	OEM
TBA After draft plan is released	Bayshore Emergency Management Association Public meeting for Hazard Mitigation Plan Update	Panel discussion, questions answered from public, Fact Sheet distributed.	BEMA, OEM Coordinator

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: BOROUGH OF HIGHLANDS, NJ**

	DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
	Various	NOTE: Open Public Meetings as listed below were all advertised in accordance with the NJ Open Public Meetings Act	NOTE: Open Public Meetings listed in "Type of Activity" column contained agenda items, reports, public input, discussion and / or other items related to the topics listed in the Activity Details below. Other meetings had specific activity as noted.	
1	8/1/12	Public Awareness	Link of Mon. Cty <b>HMP</b> Update to Highlands web site	OEM
2	8/15/12	Mayor / Council Open Public Meeting	Review of USACE Hurricane & Storm Damage Reduction Project and need for accessing of properties for study. (Levee/Floodwall) initial phases of the Hazard Mitigation Plan update discussed	Mayor and Council, Engineer
3	10/17/12	Mayor / Council Open Public Meeting	Public Hearing - Review of Stormwater management project in Engineers report. Seeking funding/ Bond Ordinance regarding Storm Water Drainage Improvement Project. ( Stormwater Mgt) Update of current hazard mitigation plan discussed, potential availability of funding through mitigation grants	Mayor and Council, Engineer
4	11/21/12	Mayor / Council Open Public Meeting	Review and discussion of facility needs, House lifting, Flood Mitigation measures, Flood Elevation requirements.	Mayor & Council, Engineer, Boro Admin, other staff
5	12/5/12	Mayor / Council Open Public Meeting	Post-Sandy Review of Zoning requirements, Flood Control, BFE impacts (Bldg Codes)	Mayor & Council, Zoning Official, other staff

HIGHLANDS

6	12/19/12	Mayor / Council Open Public Meeting	Recovery efforts, Zoning Concerns, Debris Removal Plan, loss prevention strategies	Mayor & Council, Engineer / Zoning Official, Boro Admin, other staff
7	12/20/12	Mayor's Town Hall Public Meeting	Discussion and review of Post Sandy efforts, mitigation needs. Mitigation Measures – Hazard Mitigation Plan update discussed	Mayor, Engineer, Boro Admin., other staff
8	1/16/13	Mayor / Council Open Public Meeting	Need for dredging and clean-up of waterways	Mayor & Council, Engineer, Boro Admin.
9	1/28/13	Mayor's Town Hall Public Meeting	Discussion and further review of Post Sandy efforts, mitigation needs, assistance	Mayor, Engineer, Boro Admin, FEMA, NJ Banking & Insurance
10	2/6/13	Mayor / Council Open Public Meeting	Review of Flood Prevention Ord. and program implementation (Floodplain Development)	Sub-Committee, Engineer
11	2/20/13	Mayor / Council Open Public Meeting	Review of Inspection process and discussion of future mitigation funding potential through hazard mitigation plan, currently being updated	Construction Official, Engineer
12	3/6/13	Mayor / Council Open Public Meeting	Review of Planning Brd recommendations for Flood Damage Prevention, HMGP needs, & Facility needs	Planning Brd Sec., Mayor & Council, Engineer, Boro Admin.
13	3/18/13	Mayor's Town Hall - Public Meeting	Post Sandy review and updates regarding ongoing efforts and mitigation needs	Mayor, Engineer, Boro Admin
14	3/20/13	Mayor / Council Open Public Meeting	Further review and input on Flood Prevention Ord., Flood Elevation needs for protection and construction (Elevation of Structures)	Mayor & Council, Engineer, Construction
15	4/3/13	Mayor / Council Open Public Meeting	Rebuilding Strategies, BFE impacts, Hazard Mitigation Plan update discussed, continuing process although delayed	Mayor & Council, Engineer
16	4/11/13	Planning Board – Open Public Meeting	Flood Hazard Area review and recommendations	Planning Brd, Engineer
17	4/15/13	Mayor's Town Hall – Public Meeting	Post Sandy Review and updates	Mayor, Engineer, Boro Admin
18	4/17/13	Mayor / Council Open Public Meeting	ABFE impacts and Zoning issues	Zoning Official / Engineer

19	5/1/13	Mayor / Council Open Public Meeting	ABFE further review, Financial Impacts of Sandy, Pump Station need, potential funding through the Hazard Mitigation Plan update, ongoing, process picking up momentum again	Mayor & Council, Engineer, CFO, Boro Admin
20	5/8/13	Mayor / Council Open Public Meeting	Hurricane Sandy Assessments and recommendations	Mayor & Council, Engineer, CFO, Police, FEMA
21	5/15/13	Mayor / Council Open Public Meeting	Post Sandy Private Property Demolition, Debris Removal	Arcadis presentation on program and strategies
22	5/20/13	Mayor's Town Hall - Public Meeting	Update and Flood Protection measures, Hazard Mitigation Plan update discussed,	Mayor & Council, Engineer
23	5/22/13	Joint meeting of M/C, Planning Brd, Zoning Brd –long term impacts and Sandy Related issues	Impacts and understanding of non-conforming uses and challenges presented Post-Sandy	Mayor, Council, Engineer, PB members, ZB members
24	6/5/13	Mayor / Council Open Public Meeting	Application for Rt 36 / Waterwitch Ave Drainage Project & PPD/PPDR program (Local Flood Reduction)	Mayor & Council, Engineer, Borough Admin.
25	6/19/13	Mayor / Council Open Public Meeting	FEMA Disaster Recovery Plan, Post-Sandy Planning Assistance, Dredging of Jones Creek, Flood Reduction Program (Local Flood Reduction),	Mayor & Council – FEMA, NJ Future, Engineer, Boro Admin.
26	7/1/13	FEMA – Steering Committee	Highlands Community Recovery Plan	FEMA DRP –
27	7/24/13	FEMA – Steering Committee	Highlands Community Recovery Plan	FEMA DRP -
28	8/7/13	FEMA – Community Workshop #1 Open Public Meeting	Highlands Community Recovery Plan	FEMA staff
29	8/8/13	Planning Board – Open Public Meeting	Slump Block Ordinance Review and recommendations (Hillside Development), Hazard Mitigation Plan update discussed, ongoing process	Planning Board, Engineer
30	8/20/13	Critical Infrastructure Update -	Worked with JCP&L to identify critical infrastructure facilities and contact info.	Borough Admin, JCP&L
31	8/21/13	Mayor / Council Open Public Meeting	DBIZ Grant for Stormwater Improvements, Ordinance Review for setbacks due to House Lifting needs,	Mayor & Council, Engineer, Boro Admin, Arcadis

HIGHLANDS

			FEMA HMGP Program Status, North Street Pump Status, Flood Damage Prevention, Irene House Lifting, proposal, USACE Project, Support for Rutgers Study	
32	8/26/13	Mayor's Town Hall – Public Meeting	Post Sandy Recovery, and FEMA Recovery Plan	Mayor, Engineer, FEMA, Boro Admin
32	9/18/13	Mayor / Council Open Public Meeting	Setbacks, Hazard Mitigation Plan update discussed, North Street Pump (Building Codes)	Mayor & Council, Engineer
33	9/25/13	FEMA – Community Workshop #2 – Open Public Meeting	Highlands Community Recovery Plan	FEMA Staff
34	10/2/13	Mayor / Council Open Public Meeting	Private Property Debris Removal, Stormwater Improvements,	Engineer, Arcadis
35	10/23/13	FEMA – Community Workshop #3 – Open Public Meeting	Highlands Community Recovery Plan	FEMA Staff
36	10/24/13	Mayor / Council Open Public Meeting	Update on various Sandy Recovery and mitigation programs	Mayor & Council, Engineer, FEMA, NJ Future
37	10/28/13	Meeting with U.S. Army Corp of Engineers	Review of Army Corp Project and implementation of input / info. Sessions	USACE
38	11/6/13	Mayor / Council Open Public Meeting	Long Term Recovery Plan, Home Elevations, Non-Conforming Use	Mayor & Council, Engineer, FEMA
39	12/4/13	Mayor / Council Open Public Meeting	Review of Municipal Bldg and Community Center options and Strategic Planning Recovery Report	Architect proposal, Engineer, Boro Admin, CFO
40	12/11/13	Mayor & Council Special Meeting – Open Public Mtg.	Review of Municipal Facilities and Infrastructure – Hazard Mitigation Plan update- ongoing process (Critical Infrastructure, Relocation)	Borough Admin, Mayor & Council, Engineer
41	12/18/13	Mayor / Council Open Public Meeting	Set Up FEMA Highlands Recovery Plan ongoing steering committee	Mayor & Council
42	1/15/14	Mayor / Council Open Public Meeting	Non-conforming lots impacted by Sandy and Flood Vent clarification for construction (Building Codes)	Borough Clerk
43	2/5/14	Mayor / Council Open Public Meeting	Engineer assigned to work with SRPR project, Hazard Mitigation Plan update discussed	Engineer

HIGHLANDS

44	2/19/14	Mayor / Council Open Public Meeting – Public Hearing	Non-conforming lots and flood vents	Mayor & Council, Engineers
45	3/5/14	Mayor / Council Open Public Meeting	Encourage residents to participate in Post Sandy Rutgers Survey	Mayor, Council
46	3/12/14	USACE Meeting	Review of Army Corp Project and potential options (Seawalls and Bulkheads)	USACE
47	April 2014	NJAW	Review of Critical Infrastructure with New Jersey American Water Co (Critical Facilities Protection)	OEM
48	4/2/14	Mayor / Council Open Public Meeting	Upon dissolution of the AHHRSA, the Borough reviewed adopting their rules for implementation, Hazard Mitigation Plan update discussed	Mayor, Council, Boro Admin
49	4/16/14	Mayor / Council Open Public Meeting - Public Hearing	Storm Water Drainage Improvement Project (Hazard Threat Recognition)	Engineers, CFO
50	4/28/14	USACE Meeting	Review of Army Corp Project and potential options (Seawalls and Bulkheads)	USACE
51	5/2/14	Open Public Meeting - Creative NJ Highlands Initiative	Public Meeting focused on a variety of topics including Flooding, Infrastructure, Mitigation Strategies	Creative NJ
52	May 2014	NJAW	Critical Infrastructure – New Jersey American Water Co	OEM
53	5/6/14	USACE Meeting	Review of USACE Project (Seawalls and Bulkheads)	USACE
54	5/14/14	Rutgers Studio Presentation Meeting	Review of Rutgers Studio for Post-Sandy and re-build efforts	Rutgers
55	5/15/14	Meeting: Getting to Resiliency	Met with NJ Future and GTR Initiative	NJ Future, Engineer, OEM, Boro Admin
56	5/27/14	Meeting: Getting to Resiliency	Met with NJ Future and GTR Initiative	NJ Future, Engineer, OEM, Boro Admin
57	6/2/14	NJ Future SRPR Advisory Committee	Review of SRPR process and outcomes from various studies	NJ Future with sub-committee (PB,ZB, M/C liaison, BA)
58	6/9/14	NJ Future SRPR Advisory Committee	Review of materials, discussion re: recommendations to Mayor & Council, Hazard Mitigation plan update discussed in conjunction w SRPR	NJ Future with sub-committee (PB, ZB, M/C liaison, BA)

59	6/10/14	Meeting: Getting to Resiliency	Met with NJ Future and GTR Initiative	NJ Future, Engineer, OEM, Boro Admin
60	7/11/14	NJ Future SRPR Advisory Committee	Review of materials, and discussion regarding recommendations to Mayor and Council	NJ Future with sub-committee
61	7/16/14	Mayor / Council Open Public Meeting	NJ Future SRPR recommendations to Mayor & Council for consideration and adoption	NJ Future
62	Task for September 2014	Mayor / Council Open Public Meeting 9/17/14	Agenda Item – Program Overview and Promotion of Hazard mitigation Plan Draft Release (if available)	OEM / Borough Administrator
63	Task for October 2014	Public Awareness – Mayor / Council Mtg 10/1, 10/17 Other items ongoing throughout month	Notifications to public via web site information: links to draft, public notices, printed materials for distribution at office locations & announcements at public meetings.	Mayor & Council, Borough Clerk, Borough Admin, OEM, Flood Plain Admin., Construction Office
64	Task for November 2014	Public Awareness – Mayor & Council Mtg 11/15 Ongoing outreach throughout month	Notifications to public via web site information: links to draft, public notices, printed materials for distribution at office locations & announcements at public meetings	Mayor & Council, Borough Clerk, Borough Admin, OEM, Flood Plain Admin., Construction Office

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Holmdel Township(1)\_**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
8/28/2012	Holmdel Emergency Management website	Revised website and posted link to County Sheriff's Office OEM, Hazard mitigation planning page	OEM
9/4/2012	Holmdel Township website	Added link to County Sheriff's Office OEM, Hazard mitigation planning page	Town Clerk
9/10/2012	Fact Sheet	Discussed and distributed to all township officials and agencies at LEPC meeting	OEM Municipal Departments Municipal Agencies
9/10/2012	Fact Sheet	Placed on Town Hall and Community Center Notice Boards, copies available for residents to take home	OEM

10/2012	Public Outreach	E-mail sent to all residents on Township mailing list announcing hazard mitigation plan update and providing link to County for natural hazard survey.	OEM Administration
5/22/2013	Public Outreach/Community Event	Public meeting for Bayshore Towns at Rave Complex in Hazlet to discuss the update of the hazard mitigation plan	County Emergency Management Emergency Management Coordinators from 11 Towns in BEMA (Bayshore Emergency Management Association)
6/4/2013	Fact Sheet	Fact sheet distributed at LEPC meeting, ongoing hazard mitigation plan update discussed	OEM Municipal Departments Municipal Agencies
8/14/2013	Township Committee Meeting/Public Meeting	Fact sheet distributed at Township Committee meeting, hazard mitigation plan update discussed.	OEM Committee members
9/20/2013 and 9/21/2013	Community Outreach/Public Event	Hazard Mitigation Plan update information and fact sheet distributed at Township Oktoberfest Festival, copies available for residents to take home	OEM
1/29/2014	LEPC Meeting	LEPC briefed on progress of Hazard mitigation Plan Update, worksheet requirements, public outreach requirements, mitigation strategy.	OEM Municipal Departments Municipal Agencies

3/2014	Website Updated	MC Sheriff's Office hazard mitigation plan update process Press Release posted on website for residents to read and available for download.	OEM
8/2014	Website Updated	Notice of Hazard Mitigation Plan Update posted on OEM website for residents	OEM.

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
September through December 2014	Township Committee Meeting/Public Meeting	At one meeting each month announce the status of the hazard mitigation plan update, draft release. Direct residents to the County website to review.	OEM Committee members Administration
September through December 2014	Township Planning Board meeting/Public meeting	At one meeting each month announce the status of the hazard mitigation plan update, draft release. Direct residents to the County website to review.	OEM Planning Board members
September through December 2014	Website update	Post a statement announcing the status of the hazard mitigation plan update, draft release. Direct residents to the County website to review.	OEM Administration Clerk



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Howell Township & Farmingdale Borough**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
9/4/2012	Posted Fact Sheet	Posted Fact Sheet on Public Bulletin Board in Farmingdale Borough Hall (made copies available for residents)	OEM Deputy Coordinator
2/8/2013	Posted Fact Sheet	Posted Fact Sheet on Public Bulletin Board in Howell Township Municipal Building (made copies available for residents)	OEM Deputy Coordinator
2/19/2013	Regular Public Meeting at Farmingdale Borough Council	Hazardous Mitigation Plans Discussed	OEM Deputy Coordinator/Council Members

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Howell Township & Farmingdale Borough**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
2/25/2013	Regular Public Meeting: Farmingdale Planning/Zoning Board	Hazard Mitigation Plan Discussed	OEM Deputy Coordinator/Planning Board Members
4/9/2013	Distributed Fact Sheet	Posted Fact Sheet on Farmingdale Community Center Bulletin Board; Made Fact Sheet Available for Residents	OEM Deputy Coordinator
5/10/2013	Open Discussion	Held Open Discussion at Brandywine Senior Living; Made Fact Sheet Available for Residents	OEM Coordinator/OEM Deputy Coordinator
7/6/2013	Distributed Fact Sheet	Distributed Fact Sheet to Residents at "Howell Day" Event	OEM Coordinator/OEM Deputy Coordinator

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

#### PARTICIPATING JURISDICTION: Howell Township & Farmingdale Borough

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
7/27/2013	Distributed Fact Sheet	Distributed Fact Sheet to Residents at "Hurricane Preparedness Awareness" Event	OEM Coordinator/OEM Deputy Coordinator
8/6/2013	Distributed Fact Sheet	Distributed Fact Sheet to Residents at "National Night Out" Event	OEM Coordinator/OEM Deputy Coordinator
9/10/2013	Regular Public Meeting at Howell Township Council	Hazardous Mitigation Plans Discussed	Deputy Mayor/OEM Liaison
10/5/2013	Distributed Fact Sheet	Distributed Fact Sheet to Residents at "Farmingdale Community Day & Car Show" Event	OEM Deputy Coordinator

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Howell Township & Farmingdale Borough**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
11/15/2013	Added Hazardous Mitigation Link to Howell Township Website	Added Link on Howell OEM Section of Township's Website	OEM Deputy Coordinator
11/18/2013	Added Hazardous Mitigation Questionnaire Link to Howell Township Website	Added Link on Howell OEM Section of Township's Website	OEM Deputy Coordinator
1/21/2014	Regular Public Meeting at Howell Township Council	Hazardous Mitigation Plans Discussed	Deputy Mayor/OEM Liaison
7/16/2014	Mass Mailing to Residents	In Annual Mailing to Residents: Advised Residents to Visit Howell Township & Monmouth County Websites for More Information on Hazardous Mitigation Plan	OEM Coordinator

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

#### PARTICIPATING JURISDICTION: Borough of Interlaken

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
7/31/2012	Kickoff Meeting	Attended kickoff meeting / obtained goals, objectives, literature	Monmouth County OEM, Interlaken OEM coordinator and Interlaken Deputy OEM coordinator.
8/3/2012	Website additions	Added hazard mitigation link and Monmouth County OEM link to Police website and Interlaken Borough website	Interlaken OEM coordinator and Interlaken Deputy OEM coordinator.
8/3/2012	Fact Sheet	Posted at Borough Hall	Interlaken OEM coordinator and Interlaken Deputy OEM coordinator.
8/3/2012	Fact Sheet	Posted at Deal Police Headquarters (Police provider for Interlaken Borough)	Interlaken OEM coordinator and Interlaken Deputy OEM coordinator.
8/16/2012	Fact Sheet	Posted at Allenhurst Fire Headquarters (Fire/EMS provider for Interlaken Borough)	Interlaken OEM coordinator and Interlaken Deputy OEM coordinator.



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

10/17/2012	Municipal Commissioners Meeting	Discussed mitigation at Public Meeting	Interlaken OEM coordinator and Interlaken Deputy OEM coordinator.
12/15/2012	Letter to stakeholders	Sent letter to Allenhurst Fire Department, Allenhurst First Aid Squad, and Interlaken Public Works advising them of mitigation and requesting their input.	Interlaken OEM coordinator and Interlaken Deputy OEM coordinator.
1/29/2013	Interlaken OEM Meeting	Discussed mitigation at Post-Sandy OEM meeting	Interlaken OEM coordinator and Interlaken Deputy OEM coordinator.



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
February 6, 2013	Municipal Commissioners Meeting	Discussed Hazard Mitigation Draft Plan, potential funding, and release of plan at regular meeting of commissioners. Provided website for review and copies of press release for residents.	Interlaken OEM coordinator and Interlaken Deputy OEM coordinator.
March 5, 2013	Key & Elected Officials Plan Update	Discussed plan update process and prepared worksheet 2	Floodplain Manager, Key and Elected Officials, Interlaken OEM
April 2, 2013	Municipal Commissioners Meeting	Discussed Hazard Mitigation Draft Plan, potential funding, and release of plan at regular meeting of commissioners. Provided website for review and copies of press release for residents.	Interlaken OEM coordinator and Interlaken Deputy OEM coordinator.
May 1, 2013	Municipal Commissioners Meeting	Discussed Hazard Mitigation Draft Plan, potential funding, and release of plan at regular meeting of commissioners. Provided website for review and copies of press release for residents.	Interlaken OEM coordinator and Interlaken Deputy OEM coordinator.



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
June 11, 2013	Key & Elected Officials Plan Update	Discussed plan update process and began worksheets 5 & 6	Floodplain Manager, Key and Elected Officials, Interlaken OEM
July 9, 2013	Key & Elected Officials Plan Update	Discussed plan update process and progress on Worksheets 5 & 6	Floodplain Manager, Key and Elected Officials, Interlaken OEM
September 10, 2013	Key & Elected Officials Plan Update	Discussed plan update process and finalized Worksheets 5 & 6	Floodplain Manager, Key and Elected Officials, Interlaken OEM
November 19, 2013	Regular Public Meeting Interlaken Council	Advised council on updates to mitigation plan and worksheets	Interlaken OEM coordinator and Interlaken Deputy OEM coordinator.
January 7, 2014	Regular Public Meeting Interlaken Council	Discussed Hazard Mitigation Draft Plan, potential funding, and release of plan at regular meeting of commissioners. Provided website for review and copies of press release for residents.	Interlaken OEM coordinator and Interlaken Deputy OEM coordinator



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

February 4, 2014	Regular Public Meeting Interlaken Council	Discussed Hazard Mitigation Draft Plan, potential funding, and release of plan at regular meeting of commissioners. Provided website for review and copies of press release for residents.	Interlaken OEM coordinator and Interlaken Deputy OEM coordinator
March 4, 2014	Regular Public Meeting Interlaken Council	Discussed Hazard Mitigation Draft Plan, potential funding, and release of plan at regular meeting of commissioners. Provided website for review and copies of press release for residents.	Interlaken OEM coordinator and Interlaken Deputy OEM coordinator
March 20, 2014	Stakeholders	Discuss Hazard Mitigation Plan update and worksheet 7 preparation	Floodplain Manager, Key and Elected Officials, Interlaken OEM
May 10, 2014	Community Outreach	Posted on Interlaken <b>Community Website</b> ; Plan Fact Sheet July 2014 Mon. Co. Multi-Jurisdictional Plan Update	Interlaken OEM
July 13, 2014	Community Outreach	Posted updates on Interlaken <b>Community Website</b> ; Provided link to County OEM website	Interlaken OEM
August 2014	Municipal Commissioners Meeting	Hazard mitigation plan update will be discussed. Draft plan or actual release will be discussed. Fact sheet will be available	Interlaken OEM



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

September 2014	Municipal Commissioners Meeting	Hazard mitigation plan update will be discussed. Draft plan or actual release will be discussed. Fact sheet will be available	Interlaken OEM
October 2014	Municipal Commissioners Meeting	Hazard mitigation plan update will be discussed. Draft plan or actual release will be discussed. Fact sheet will be available	Interlaken OEM
November 2014	Municipal Commissioners Meeting	Hazard mitigation plan update will be discussed. Draft plan or actual release will be discussed. Fact sheet will be available	Interlaken OEM



Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: Keansburg

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
3/11/2013	Fact Sheet	Posted in all Public Areas	Deputy OEM Ginger Rogan
3/11/2013	Planning Board Meeting	Placed on Agenda Mitigation plan update discussed	Floodplain Manager Ed Striedl
4/8/2013	Municipal OEM meeting	Discussion regarding handouts for resident	OEM Director Raymond O'Hare
4/8/2013	Planning Board Meeting	Placed on Agenda Mitigation plan update discussed	Floodplain Manager Ed Striedl

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Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** Keansburg

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
5/13/2013	Planning Board Meeting	Placed on Agenda Mitigation plan update discussed	Floodplain Manager Ed Striedl
6/10/2013	Planning Board Meeting	Placed on Agenda Mitigation plan update discussed	Floodplain Manager Ed Striedl
7/8/2013	Planning Board Meeting	Placed on Agenda Mitigation plan update discussed	Floodplain Manager Ed Striedl
8/12/2013	Planning Board Meeting	Placed on Agenda Mitigation plan update discussed	Floodplain Manager Ed Striedl

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Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** Keansburg

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
8/12/2013	Fact Sheet	Reposted in all Public Areas	Deputy OEM James Pigott
9/9/2013	Planning Board Meeting	Placed on Agenda Mitigation plan update discussed	Floodplain Manager Ed Striedl
10/14/2013	Planning Board Meeting	Placed on Agenda Mitigation plan update discussed	Floodplain Manager Ed Striedl
11/11/2013	Planning Board Meeting	Placed on Agenda Mitigation plan update discussed	Floodplain Manager Ed Striedl

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Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: Keansburg

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
12/9/2013	Planning Board Meeting	Placed on Agenda Mitigation plan update discussed	Floodplain Manager Ed Striedl
1/12/2014	Planning Board Meeting	Placed on Agenda Mitigation plan update discussed	Floodplain Manager Ed Striedl
2/10/2014	Fact Sheet	Reposted in all Public Areas	Deputy OEM James Pigott
2/10/2014	Planning Board Meeting	Placed on Agenda Mitigation plan update discussed	Floodplain Manager Ed Striedl

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Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** Keansburg

<b>DATE OF ACTIVITY</b>	<b>TYPE OF ACTIVITY</b>	<b>ACTIVITY DETAILS</b>	<b>LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY</b>
3/10/2014	Planning Board Meeting	Placed on Agenda Mitigation plan update discussed	Floodplain Manager Ed Striedl
4/14/2014	Planning Board Meeting	Placed on Agenda Mitigation plan update discussed	Floodplain Manager Ed Striedl
5/12/2014	Planning Board Meeting	Placed on Agenda Mitigation plan update discussed	Floodplain Manager Ed Striedl
6/9/2014	Planning Board Meeting	Placed on Agenda Mitigation plan update discussed	Floodplain Manager Ed Striedl

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Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** Keansburg

<b>DATE OF ACTIVITY</b>	<b>TYPE OF ACTIVITY</b>	<b>ACTIVITY DETAILS</b>	<b>LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY</b>
6/10/2014	Fact Sheet	Reposted in all Public Areas	Deputy OEM James Pigott
6/15/2014	Mailers	Message printed on residents water bills. Flooding? See Borough web site for information.	Floodplain Manager Ed Striedl
7/14/2014	Planning Board Meeting	Placed on Agenda Mitigation plan update discussed	Floodplain Manager Ed Striedl

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: \_\_\_\_\_ Borough of Keyport \_\_\_\_\_

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
9/2012	Public Communication	Created a Hazard Mitigation tab and linked the Borough Web page to the County Webpage	Administration
10/2/2012	Council Meeting Administrator Report	Flood Elevation, Hazard Mitigation Plan update was discussed by the Borough Administrator at a public meeting	Administrator
10/16/2012	Council Meeting Administrator's report	Flood Elevation, Hazard Mitigation Plan was discussed by the Borough Administrator at a public meeting	Administrator
12/4/2012	Council Meeting Minutes	Council meeting discussion under new business Flood Maps and Flood elevation, Hazard Mitigation Plan at a public meeting.	Mayor and Council
3/15/13	Council Meeting	Discussion and information regarding the creation of flood mitigation committee, discussion of hazard mitigation plan at a public meeting	Mayor and council

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DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
3/19/2013	Council Meeting	Public Hearing regarding bulkheads on first street, discussion of hazard mitigation plan update	Mayor and Council
4/2/13	Council Meeting	Public comment and discussion regarding ABFE maps and Hazard Mitigation Plan at a public meeting	Mayor and Council
4/23/13	Council Meeting	Presentation by FEMA representative on Advisory Base Flood Maps, Hazard Mitigation Plan at a public meeting	Mayor and Council
6/11/13	Council Meeting	Presentation on sewer infrastructure identified in projects for hazard mitigation at a public meeting	Mayor and council
6/27/13	Planning Board Meeting	Flood elevation mentioned regarding 6 Broad Street project, Hazard Mitigation Plan at a public meeting	Planning Board Members
7/25/13	Planning Board Meeting	Flood elevation mentioned regarding 45 Beers Street project, Hazard Mitigation Plan at a public meeting	Planning Board Members
8/20/13	Council Meeting	Listed on Agenda: creation of OEM office in Borough Hall for Public access with established hours	Mayor and Council

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
9/26/13	Planning Board Meeting	Flood elevation, Hazard Mitigation Plan mentioned regarding 45 Beers Street project at a public meeting	Planning Board Members
10/15/13	Council Meeting	Administrator's Report on Multi-jurisdictional mitigation, Hazard Mitigation Plan Worksheets discussed at a public meeting	Mayor and Council
10/24/13	Planning Board Meeting	Flood elevation, Hazard Mitigation Plan mentioned regarding 44 Beers Street project at a public meeting	Planning Board Members
11/21/13	Planning Board Meeting	Flood elevation, Hazard Mitigation Plan mentioned regarding 101 Green Grove project at a public meeting	Planning Board Members
2/4/14	Council Meeting	Public hearing and presentation of post Sandy plans identifying hazards and projects for mitigation	Mayor and Council
3/8/14	Council Meeting	Administrator's Report: Hazard mitigation, grants, and improvements at a public meeting	Mayor and Council
6/23/14	Council Meeting	Discussion of flood zones, Hazard Mitigation Plan at a public meeting	Mayor and Council
6/2014	Public Communication	OEM set up a face book page to mirror what the Borough has on the web page Hazard Mitigation tab	OEM Coordinator

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
7/24/14	Planning Board Meeting	Flood elevation, Hazard Mitigation Plan mentioned regarding 333 First Street project at a public meeting	Planning Board Members
JULY 2014	Public Notice	Posted Plan fact sheet on Borough Hall bulletin boards	Administration Office
September/ October/ November 2014	Public Communication	Keypoint will notify resident that draft plan is released.	Administration Office
September/ October/ November 2014	Public Communication	Draft plan will be mentioned at the Council Meetings	Mayor and Council



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

#### PARTICIPATING JURISDICTION: Borough of Lake Como

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
10/6/2012	Fact Sheet	Fact Sheet distributed at Lake Como Day	Borough Clerk's office
10/18/2012	Press Release of Mitigation Plan Update	Posted the Press release of the Hazard Mitigation Plan update on Borough Website.	Borough Clerk/Administrator
10/18/2012	Press Release	Posted press release of Hazard Mitigation plan update on Municipal Bulletin board.	Borough Clerk/Administrator
10/18/2012	Fact Sheet	Copies of Fact Sheet placed in Borough Lobby	Borough Clerk/Administrator

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DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
10/18/2012	Natural Hazard Survey link	Link to Natural Hazard Survey posted on Municipal web page	Borough Clerk/Administrator
6/22/13	Press Release of Mitigation Plan Update	Posted the Press release of the Hazard Mitigation Plan update on Borough Website.	Borough Clerk/Administrator
6/22/13	Press Release	Posted press release of Hazard Mitigation plan update on Municipal Bulletin board.	Borough Clerk/Administrator
6/22/13	Press Release	Copies of Press Release placed in municipal lobby	Borough Clerk/Administrator

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
10/5/2013	Fact Sheet Distributed	Fact Sheet distributed at Lake Como Day	Borough Clerk's office
10/14/13	Public Meeting of the Planning Board	Discussion of Hazard Mitigation plan as part of Master Plan to be included when Master Plan is updated	Lake Como Planning Board
3/14/14	Press Release	Posted press release of Hazard Mitigation plan update on Municipal Bulletin board.	Borough Clerk/Administrator
3/14/14	Press Release	Posted press release of Hazard Mitigation plan update on Municipal website	Borough Clerk/Administrator

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
3/14/14	Press Release	Copies of Press Release of Hazard Mitigation plan update placed in municipal lobby	Borough Clerk/Administrator
3/14/14	Press Release of Mitigation Plan Update	Press Release of Hazard mitigation plan update emailed to residents on town email notification system	Councilmember
4/1/14	Regular public meeting of the Lake Como Mayor and Council	Hazard Mitigation Plan presentation at Regular meeting of Mayor and Council. Explained the plan update and the Borough's participation.	OEM Coordinator/Police Chief and Borough Clerk/Administrator
4/1/14	Press Release	Distributed at Mayor and Council meeting	Borough Clerk/Administrator



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: *Borough of Little Silver*

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
August 6, 2012	Community Outreach	Post on <b>Community Bulletin Board</b> ; Press Release Monmouth County Sheriff's Office – Plan update Process June 29, 2012	Floodplain Manager
October 23, 2012	Community Outreach	Post on <b>Community Bulletin Board</b> ; Press Release Monmouth County Sheriff's Office – Plan update Process October 15, 2012	Floodplain Manager
May 28, 2012	Community Outreach	Post on <b>Community Bulletin Board</b> ; Press Release Monmouth County Sheriff's Office – Plan update Process May, 2012	Floodplain Manager
May 20, 2013	Letter & Fact Sheet to Municipal Officials and Stakeholders	Discussed plan update process worksheets 3 and 4	Floodplain Manager, Key and Elected Officials

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Borough of Little Silver**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
June 18, 2013	Letter and Fact Sheet to Municipal Officials and Stakeholders	Discussed plan update process worksheets 6 and 5	Floodplain Manager, Key and Elected Officials
June 23, 2013	Community Outreach	Social Media – News Article <b><i>LittleSilver.patch.com</i></b> Monmouth County Works on Updating Hazard Mitigation Plan	Floodplain Manager
October 10, 2013	Letter and Fact Sheet to Municipal Officials and Stakeholders	Discussed plan update process Worksheets 1 thru 6	Floodplain Manager, Key and Elected Officials
April 11, 2014	Letter and Fact Sheet to Municipal Officials and Stakeholders	Discussed plan update process Worksheet 7	Floodplain Manager, Key and Elected Officials

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: *Borough of Little Silver*

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
January 28, 2014	Community Outreach	Council Meeting explaining Hazard Mitigation Plan <b><i>This Meeting was opened to public comment</i></b>	OEM Coordinator, Key and Elected officials
July 15, 2014	Community Outreach	Posted on <b><i>Community Website</i></b> ; Plan Fact July 2014 Mon. Co. Multi-Jurisdictional Plan Update	Floodplain Manager
July 15, 2014	Community Outreach	Posted on <b><i>Community Website</i></b> ; Provided link to County OEM website	Floodplain Manager
August, 2014	Community Outreach	Council Meeting explaining Hazard Mitigation Plan <b><i>This Meeting will be opened to public comment</i></b>	OEM Coordinator, Key and Elected officials

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Borough of Little Silver**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
September, 2014	Community Outreach	Council Meeting explaining Hazard Mitigation Plan <b><i>This Meeting will be opened to public comment</i></b>	OEM Coordinator, Key and Elected officials
October, 2014	Community Outreach	Council Meeting explaining Hazard Mitigation Plan <b><i>This Meeting will be opened to public comment</i></b>	OEM Coordinator, Key and Elected officials
October, 2014	Community Outreach	Will Post on <b>Community Website</b> ; Plan Fact Mon. Co. Multi-Jurisdictional Plan Update	Floodplain Manager

**Please add additional pages as needed and return via email by July 18, 2014 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.**



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Village of Loch Arbour**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
June 13, 2013	Key & Elected Officials Plan Update	Discussed plan update process worksheets 4 and 5	Floodplain Administrator, Key and Elected Officials
October 11, 2013	Key & Elected Officials Plan Update	Discussed plan update process Worksheet 6	Floodplain Administrator, Key and Elected Officials
March 4, 2014	Community Outreach	Posted on <b>Community Bulletin Board</b> ; Press Release Monmouth County Sheriff's Office – Plan update Process	Floodplain Administrator
March 4, 2014	Community Outreach	Posted on <b>Community Bulletin Board</b> ; Plan Fact June 2013 Mon. Co. Multi-Jurisdictional Plan Update	Floodplain Administrator

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: Village of Loch Arbour

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
August 2,2012	Community Outreach	Posted on <b>Community Bulletin Board</b> ; Press Release Monmouth County Sheriff's Office – Plan update Process June 29,2012	Floodplain Administrator
October 21, 2012	Community Outreach	Posted on <b>Community Bulletin Board</b> ; Press Release Monmouth County Sheriff's Office – Plan update Process October 15,2012	Floodplain Administrator
May 30, 2012	Community Outreach	Posted on <b>Community Bulletin Board</b> ; Press Release Monmouth County Sheriff's Office – Plan update Process May ,2012	Floodplain Administrator
May 17,2013	Key & Elected Officials Plan Update	Discussed plan update process worksheets 1 thru 4	Floodplain Administrator, Key and Elected Officials

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Village of Loch Arbour**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
March 4, 2014	Community Outreach	Posted on <b>Community Website</b> ; Press Release Monmouth County Sheriff's Office – Plan update Process	Floodplain Administrator
March 4, 2014	Community Outreach	Posted on <b>Community Website</b> ; Plan Fact Juee 2013 Moo. Co. Multi-Jurisdictional Plan Update	Floodplain Administrator
March 4, 2014	Community Outreach	Posted on <b>Community Website</b> ; Provided link to County OEM website	Floodplain Administrator
April 23, 2014	Community Outreach	Worked with <b>Deal Lake Commission</b> : Development of worksheet 7 – Action Worksheet: Automated Tide Gate, Automated Flume Gate, Treatment Devices, Regional Basins	Floodplain Administrator, Deal Lake Commission

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Village of Loch Arbour**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
July 14, 2014	Community Outreach	Posted on <b>Community Bulletin Board</b> ; Plan Fact July 2014 Mon. Co. Multi-Jurisdictional Plan Update	Floodplain Administrator
July 14, 2014	Community Outreach	Posted on <b>Community Website</b> ; Plan Fact June 2013 Mon. Co. Multi-Jurisdictional Plan Update	Floodplain Administrator
September, 2014	Community Outreach	Council Meeting explaining Hazard Mitigation Plan <b><i>This Meeting will be opened to public comment</i></b>	Floodplain Administrator, Key and Elected officials
October, 2014	Community Outreach	Council Meeting explaining Hazard Mitigation Plan <b><i>This Meeting will be opened to public comment</i></b>	Floodplain Administrator, Key and Elected officials

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** City of Long Branch(1)

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
8/10/12	Fact Sheet	Distributed at City Hall and all municipal buildings, information desk, copies available for resident pick-up.	OEM Coordinator, OEM Deputy Coordinator and PIO, City Officials
10/3/2012	OEM Planning Meeting w/ Stakeholders	Discussed Hazard Mitigation Planning process with stakeholders, residents and business owners	OEM Coordinator, OEM Deputy Coordinator and PIO, residents, business representatives
1/7/13	Fact Sheet	Placed on City Website and available at City Hall and other City buildings for distribution to residents.	OEM Coordinator, OEM Deputy Coordinator and PIO, City officials
4/1/13	Sea Bright Mitigation Video on Facebook	Video from FEMA on Monmouth County Facebook page "LIKE" and "Shared" on Long Branch Facebook	OEM Coordinator, OEM Deputy Coordinator and PIO

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** \_\_\_\_\_ City of Long Branch(2)

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	YEADEPARTMENT AND/OR STAFF TITYE WHO UNDERTOOK ACTIVITY
6/14/2013	OEM Planning Meeting w/ Stakeholders	Discussed Hazard Mitigation Planning process with stakeholders, residents and local business owners	OEM Coordinator, OEM Deputy Coordinator and PIO, residents, business representatives
8/13/2013	Fact Sheet	Placed on City Website and available at City Hall and other City buildings for distribution to residents.	OEM Coordinator, OEM Deputy Coordinator and PIO
10/18/2013	OEM Planning Meeting w/ Stakeholders	Discussed Hazard Mitigation Planning process with stakeholders, residents and business owners	OEM Coordinator, OEM Deputy Coordinator and PIO, residents, business representatives
12/18/2013	Fact Sheet	Placed on City Website and available at City Hall and other City buildings for distribution to residents.	OEM Coordinator, OEM Deputy Coordinator and PIO, City officials

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: City of Long Branch(3)

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	YEADEPARTMENT AND/OR STAFF TITYE WHO UNDERTOOK ACTIVITY
3/4/14	Press Release	Discussed plan hazard mitigation update process, submitted to local papers and posted on county website	OEM Coordinator, OEM Deputy Coordinator and PIO
3/4/14	Press Release	Monmouth County Facebook page press release "LIKE" and "Shared" on Long Branch Facebook	OEM Coordinator, OEM Deputy Coordinator and PIO
August 14,2014	Website update	Long Branch website linked to Monmouth County hazard planning webpage	OEM Coordinator, OEM Deputy Coordinator and PIO
Aug/Sept/Oct Nov/Dec 2014	Website update	Posting of notice regarding pending release of Multi-Jurisdictional Hazard Mitigation Plan Update in early fall, will post notice of actual release for review and FEMA approval	OEM Coordinator, OEM Deputy Coordinator and PIO
Sept/Oct/ Nov/Dec 2014	Council/Planning Board /Public Meetings  8 total	Announcement scheduled at each meeting re: pending and actual draft plan release of Hazard Mitigation Plan. Final FEMA approval to be announced as well	OEM Coordinator, OEM Deputy Coordinator and PIO, City Council, Planning Board, residents

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** \_\_\_\_\_ Manalapan (1) \_\_\_\_\_

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
June 29, 2012	Press Release	County Press Release notifying residents of the beginning of Hazard Mitigation Plan Update process. Meeting scheduled for Municipal Officials in July.	County Emergency Management County PIO Local Media
October 15, 2012	Press Release	Residents asked to participate in a Natural Hazard online survey	County Emergency Management County PIO Local Media
April 1, 2013	Social Media	FEMA on FaceBook "Sea Bright Mitigation" posted to County Sheriff's Face Book	FEMA County Emergency Management County PIO



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** Manalapan (2)

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
June 10, 2013	Social Media	Retweeted FEMA tweet "Mitigation Worked for NJ Couple" on County Sheriff's twitter site	FEMA County Emergency Management County PIO
June 19, 2013	Press Release	Monmouth County continues work on Hazard mitigation Plan update	County Emergency Management County PIO Local Media
August 8, 2013	Social Media	Retweeted FEMA tweet "Mitigation is Important" on County Sheriff's twitter site	FEMA County Emergency Management County PIO
March 3, 2014	Press Release	Monmouth County continues Hazard Mitigation Plan update process	County Emergency Management County PIO Local Media
June 6, 2014	Social Media	Retweeted FEMA tweet "Ahead of the Game: NJ's Hazard Mitigation Initiative will pay off in future storms"	FEMA County Emergency Management County PIO

<p>June 2014</p>	<p>Notice of plan update process posted to township website</p>	<p>Notice Advises of hazard mitigation plan update process and requests public input and comments</p>	<p>Township Engineer and Township Administration Staff</p>
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## OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:**

**MANASQUAN BOROUGH**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
10/20/2012	Hazard Mitigation Press release Posted	Press release posted at Borough Hall regarding Hazard Mitigation Plan Update	Dave Kircher, Coordinator Office of Emergency Management
12/13/2012 - Present	FEMA Region 2 Flood Mitigation Video Posted	Public education video featuring Manasquan and Monmouth County regarding hazard mitigation posted on youtube: <a href="http://www.youtube.com/watch?v=LJfKunR3Aml&amp;feature=youtu.be">http://www.youtube.com/watch?v=LJfKunR3Aml&amp;feature=youtu.be</a>	Office of Emergency Management / Monmouth County OEM / FEMA Region 2 / Dewberry Associates
01/11/13	Facebook Posting	Hurricane Sandy Recovery Forum regarding Hazard Mitigation Plan Update, Home Elevation & Reconstruction Posted	Joe Deiorio, Administrator
01/19/2013	Discussion of Hazard Mitigation Update at Regular Council Meeting	Discussion at Regular Council Meeting about Hazard Mitigation update strategy as well as questions, comments directed to our oem email address	Dave Kircher, Coordinator Office of Emergency Management
02/26/2013	Hazard Mitigation Update posting on municipal website	Website post about Hazard Mitigation grant program & plan update	Joseph Delorio, Administrator Borough of Manasquan

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## OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:**

**MANASQUAN BOROUGH**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
03/14/2013	Facebook Post	Governors Town Hall event on Hazard Mitigation Plan Update, Recovery & Home Elevation Grant Programs announced	Joseph Delorio, Administrator Borough of Manasquan
03/18/2013	Facebook Post	Governors Town Hall event on Hazard Mitigation Plan Update, Recovery & Home Elevation Grant Programs announced	Joseph Delorio, Administrator Borough of Manasquan
05/24/13	Facebook Post	Hazard Mitigation Plan Update, Grant Program (HMGP) and Reconstruction, Rehabilitation, Elevation & Mitigation (RREM) programs announced	Joseph Delorio, Administrator Borough of Manasquan
07/20/13 – present  (continuous)	Radio Broadcast on 1620AM	Message broadcast about Hazard Mitigation Plan update with links to County website as well as questions, comments, requests for minutes or draft plan notifications to our oem email address	Chris Tucker, Deputy Coordinator Office of Emergency Management
07/29/13	Plan Update Fact Sheet posted	Plan Update Fact Sheet posted at Borough Hall, Police Headquarters & administration office	Chris Tucker, Deputy Coordinator Office of Emergency Management

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## OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:                    MANASQUAN BOROUGH**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
08/06/13	Facebook posting on Borough website	Facebook post about Hazard Mitigation Plan update, announcement of Public meeting with links to County website as well as questions, comments, requests for minutes or draft plan notifications to our oem email address	Chris Tucker, Deputy Coordinator Office of Emergency Management
08/06/13 – 09/09/13  (continuous)	Advertisement on local TV station	Local TV advertisement on cable channel 77 FIOS 28 - broadcast advising of public meeting about Hazard Mitigation Plan update. Comments, requests for minutes or draft plan notifications to our oem email address	Chris Tucker, Deputy Coordinator Office of Emergency Management
08/06/13	Email to 30 stakeholders including, chamber of commerce, environmental, neighborhood groups, historic & religious	Email about Hazard Mitigation Plan update, announcement of Public meeting with links to County website as well as questions, comments, requests for minutes or draft plan notifications to our oem email address	Chris Tucker, Deputy Coordinator Office of Emergency Management
08/07/13	Website link posted	Link to County Hazard Mitigation Plan Update page posted on Manasquan Borough Website.	Chris Tucker, Deputy Coordinator Office of Emergency Management
08/07/13 – 09/09/13  (continuous)	Radio Broadcast on 1620AM	Message broadcast advising of public meeting about Hazard Mitigation Plan update.	Chris Tucker, Deputy Coordinator Office of Emergency Management

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## OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: MANASQUAN BOROUGH**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
08/08 08/15 08/22 08/29 09/05	Advertisement in local newspaper	Advertisement in the Coast Star about Hazard Mitigation Plan update, announcement of Public meeting with links to County website as well as questions, comments, requests for minutes or draft plan notifications to our oem email address	Chris Tucker, Deputy Coordinator Office of Emergency Management
08/08/13	Meeting Announcement posted	Announcement about Hazard Mitigation Plan Update public meeting on 09/09/13 posted on Facebook and at Borough Hall, Police Headquarters & administration office	Chris Tucker, Deputy Coordinator Office of Emergency Management
08/19/13	Discussion of Hazard Mitigation Plan Update at Regular Council Meeting	Discussion at Regular Council Meeting about Hazard Mitigation Plan update, announcement of Public meeting with links to County website as well as questions, comments, requests for minutes or draft plan notifications to our oem email address	Chris Tucker, Deputy Coordinator Office of Emergency Management
08/20/13	Planning Board Meeting	Discussion on Hazard Mitigation Plan update, announcement of Public meeting with links to County website as well as questions, comments, requests for minutes or draft plan notifications to our oem email address	David Kircher, Coordinator Office of Emergency Management
08/26/2013	Radio Broadcast on 1620AM	Updated message broadcast advising of public meeting about Hazard Mitigation Plan update.	Chris Tucker, Deputy Coordinator Office of Emergency Management

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## OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION:

MANASQUAN BOROUGH

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
09/10/13	Planning Board Meeting	Discussion on Hazard Mitigation Plan update, announcement of Public meeting with links to County website as well as questions, comments, requests for minutes or draft plan notifications to our oem email address	Mary Salerno, Secretary Manasquan Planning Board
09/05/13	Facebook post, email and text blast	Facebook post & email/ text alert sent about Hazard Mitigation Plan update meeting scheduled for 09/09/13	Chris Tucker, Deputy Coordinator Office of Emergency Management
09/09/13	Special public meeting held	Special public meeting convened about Hazard Mitigation Plan update, announcement of Public meeting with links to County website as well as questions, comments, requests for minutes or draft plan notifications to our oem email address	Chris Tucker, Deputy Coordinator Office of Emergency Management
10/10/13	Facebook Post	Survey on Hazard Mitigation Plan Update posted for residents to participate in	Chris Tucker, Deputy Coordinator Office of Emergency Management
10/10/13	Website link posted	Link to Hazard Mitigation Plan Update questionnaire page posted on Manasquan Facebook Website.	Chris Tucker, Deputy Coordinator Office of Emergency Management

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## OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:                    MANASQUAN BOROUGH**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
10/11/13	Website link updated	Updated Link to Monmouth County Hazard Mitigation Website.	Chris Tucker, Deputy Coordinator Office of Emergency Management
11/6/13	Planning & Zoning Meeting	Discussion on Hazard Mitigation Plan update, announcement of Public meeting with links to County website as well as questions, comments, requests for minutes or draft plan notifications to our oem email address	Chris Tucker, Deputy Coordinator Office of Emergency Management
03/03/2014	Facebook Post	Facebook post of County HM Plan Update Press Release	Christopher Tucker OEM Coordinator
03/04/2014	Facebook Post	Request for input from community regarding ideas for updated hazard mitigation plan strategy	Christopher Tucker OEM Coordinator
03/05/2014	Email to 30 Stakeholders	Request for input from stakeholders regarding ideas for updated hazard mitigation plan strategy	Christopher Tucker OEM Coordinator

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## OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION:

MANASQUAN BOROUGH

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
03/05/2014	Email to Stakeholder	Emailed response to stakeholder comment regarding ideas for updated hazard mitigation plan strategy	Christopher Tucker OEM Coordinator
03/05/2014	Email to Stakeholder	Emailed response to stakeholder comment regarding ideas for updated hazard mitigation plan strategy	Christopher Tucker OEM Coordinator
03/06/2014	Newspaper Advertisement	Ad in local newspaper seeking community regarding ideas for updated hazard mitigation plan strategy	Christopher Tucker OEM Coordinator
03/10/2014	Email to Stakeholder	Emailed response to stakeholder comment regarding ideas for updated hazard mitigation plan strategy	Christopher Tucker OEM Coordinator
03/11/2014	Email to Stakeholder	Emailed response to stakeholder comment regarding ideas for updated hazard mitigation plan strategy	Christopher Tucker OEM Coordinator

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## OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION:

MANASQUAN BOROUGH

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
03/13/2014	Newspaper Advertisement	Ad in local newspaper seeking community regarding ideas for updated hazard mitigation plan strategy	Christopher Tucker OEM Coordinator
03/17/2014	Emails to Stakeholder	Emailed response to stakeholder comment regarding ideas for updated hazard mitigation plan strategy (x3)	Christopher Tucker OEM Coordinator
03/17/2014	Public Meeting	Hazard Mitigation Plan update discussed at public (regular council) meeting	Joseph Delorio Administrator
05/05/2014	Public Meeting	Hazard Mitigation Plan update discussed at public (regular council) meeting	Joseph Delorio Administrator

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Township of Marlboro (1 of 4)**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
7/31/12	Township Local Emergency Planning Committee Meeting	Discussed the plan, the revision process, and potential Mitigation Actions	OEM
9/16/12	Fact Sheet	Distributed Fact sheet at Marlboro Day	OEM, Police Department
9/17/12	Fact Sheet	Posted fact sheet and placed copies for the public at the Township Library and Municipal Office	OEM
9/17/12	Letter and Fact Sheet to Municipal Officials	Delivered letters outlining plan and fact sheets to Planning Board and Zoning Board secretaries; reviewed fact sheets to have each board include information in their meetings	OEM

11/20/12	Township Local Emergency Planning Committee Meeting	Discussion on Mitigation Actions and reviewed the fact sheet; reviewed items discussed at 9/28/13 Core Planning Group Meeting	OEM
3/18/13	Township Local Planning Committee Meeting	Discussion on Mitigation Actions	OEM
6/27/13	Township Local Planning Committee Meeting	Reviewed Items discussed at 4/15 /13 Core Planning Group Meeting; discussion on mitigation actions	OEM
9/15/13	Fact Sheet	Handed out fact sheets at Marlboro Day	OEM, Police Department
9/16/13	Fact Sheet	Posted fact sheet and placed copies for the public at the Township Library and Municipal Office	OEM
9/26/13	Local Emergency Planning Committee Meeting	Reviewed the Plan Update Process to date; reviewed information discussed at Core Planning Group Meeting #4; discussed local mitigation actions	OEM

10/25/13	Fact Sheet Distributed	Mass mailing sent to all residents included fact sheet and links to provide suggestions and input	Administration
11/14/13	Local Emergency Planning Committee Meeting	Reviewed the plan update process to date & discussed local mitigation actions	OEM
3/27/14	Local Emergency Planning Committee Meeting	Reviewed items discussed at Core Planning Group Meeting #5 & discussed local mitigation actions	OEM
6/19/14	Local Emergency Planning Committee Meeting	Reviewed Plan Update process to date and discussed local mitigation actions	OEM
7/7/14	Regular Public Township Council Meeting	Mayor discussed the plan in opening remarks and requested input from residents	Mayor

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

Summary of Outreach Activities to the General Public and Other Stakeholders

**PARTICIPATING JURISDICTION: MATAWAN BOROUGH**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
7/31/2012	Kick-Off Meeting	Discussed Plan update process. Met with other Municipal Stakeholders and County OEM	OEM Coordinator
8/3/2012	Statement of Authority- Participation in Monmouth County Hazard Mitigation Plan Update	Authorized local officials to serve on the County Core Planning Group. Municipal stakeholders provided input on plan update involvement.	Mayor, OEM Coordinator, Deputy OEM Coordinator
4/03/2013	Identified all municipal stakeholders	Alerted stakeholders to the planning process and solicited feedback and input. Provided information (fact sheet and links) to those involved on the municipal level.	OEM Coordinator, Local Department Heads
5/13/2013	Hazard Mitigation Plan Update Information provided to public	Information on the Plan Update was provided to the public via the Borough's website ( <a href="http://www.matawanborough.com">www.matawanborough.com</a> ). A request to complete a fifteen question survey was included.	OEM Coordinator, Assistant to the Borough Administrator

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

Summary of Outreach Activities to the General Public and Other Stakeholders

**PARTICIPATING JURISDICTION: MATAWAN BOROUGH**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
5/13/2013	Social Media Announcement	Matawan Borough's participation in the plan update and a request for public input/participation in plan survey was posted on the Borough of Matawan-Office of Emergency Management facebook page.	OEM Coordinator, Deputy OEM Coordinator
5/22/2013	Public Information Session regarding the Plan Update	A Public Information Session was held at the Rave Movie theater in Hazlet Twp. for all Bayshore Municipalities. Information was provided. The public was invited to ask questions, submit comments and provide feedback on the plan.	OEM Coordinators from the Bayshore Emergency Management Association (BEMA), a consortium of Emergency Managers from Aberdeen, Atlantic Highlands, Hazlet, Highlands, Holmdel, Keansburg, Keyport, Matawan, Middletown and Union Beach
6/03/2013	Informational sheets made available to the public	Informational sheets which contain links to the Fact Sheet and survey were left for the general public in the lobby at Borough Hall and Police Headquarters	OEM Coordinator, Acting Borough Administrator
8/03/13	Fact sheets made available to public	Facts sheets were made available to the public @ Police Headquarters (National Night Out)	OEM Coordinator

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

Summary of Outreach Activities to the General Public and Other Stakeholders

**PARTICIPATING JURISDICTION: MATAWAN BOROUGH**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
10/12/2013	Fact sheets made available to public	Facts sheets were made available to the public at the OEM/CERT table at Matawan Day.	OEM Coordinator, CERT volunteers
1/15/2014	Discussion of Plan with other stakeholders	Plan update was discussed with Borough Administrator and Mayor. Input and feedback was sought.	OEM Coordinator
7/14/2014	Fact Sheets were replenished in the lobby at Borough Hall	Fact Sheet explaining the Plan and the update process were again made available to the public.	OEM Coordinator
7/18/2014	Additional input was sought from all municipal stakeholders (department heads/local officials)	E-mail was sent again advising of the Plan Update, welcoming additional input from all stakeholders. Also requested the Plan Update be brought up in all upcoming Council and Planning Board Meetings.	OEM Coordinator, Borough Administrator, Mayor, Council, Planning Board

***Please add additional pages as needed and return via email by July 18, 2014 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.***



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

Summary of Outreach Activities to the General Public and Other Stakeholders

**PARTICIPATING JURISDICTION: MATAWAN BOROUGH**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
7/18/14	Press release is scheduled to be broadcasted on School District Local Access television station	To ensure that the public and other stakeholders are invited to review and provide comments on the plan during the update process, a press release will be broadcasted on the Matawan-Aberdeen Regional School District Local Access TV channel.	OEM Coordinator, Matawan-Aberdeen Regional School District



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

#### PARTICIPATING JURISDICTION: Middletown Township

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
4-16-13	Public Outreach	Establish a link on the jurisdiction's web site to the overall County Hazard Mitigation Plan Update page	Public Information Office
4-16-13	Public Outreach	Post Press Release Regarding All Natural Hazards Survey to website with link to survey	Public Information Office
4-16-13	Public Outreach	Post Plan Updated Fact Sheet at Town Hall with extra copies available in information console	Public Information Office
4-16-13	Public Outreach	Provide Fact Sheet to Township Departments (housed at multiple locations) for posting in Township Buildings	Public Information Office
4-16-13	Public Outreach	Like MC Sheriff's Facebook page which posts information on Hazard Mitigation Updates	Public Information Office
5-2-2013	Public Outreach	Write brief on HPMG Public Info Session	Public Information Office
5-3-13	Public Outreach	Share HMPG Brief with BEMA members	OEM
5-3-13	Public Outreach	Release HMPG brief to Press, posted to website, facebook, twitter, added to weekly newflash, tv	Public Information Office
5-15-13	Public Outreach	HMPG Update Public Info Session Media, website, facebook, twitter, added to weekly newflash	Public Information Office
5/20/13	Public Outreach	Reminder sent to press on HMPG Public Info Session	Public Information Office
5/23/13	News Article	NJ.com – HMP Public Info Session	Media



6/14/13	Public Outreach	Release about Flood Insurance and Mitigation posted to website, facebook, twitter, weekly email, tv, sent to media	Public Information Office
6/20/13	Public Outreach	Release about HMPG Plan Update posted to website, facebook, twitter, weekly email, tv, sent to media	Public Information Office
3/5/14	Public Outreach	Release - HMPG Plan Update, posted to website, facebook, twitter, added to weekly newsflash, tv	Public Information Office
6/15/14	Public Outreach	Plan Update Article published in newsletter, circulation – 22,000k	Public Information Office

***Please add additional pages as needed and return via email by October 21, 2013 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.***





## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

#### PARTICIPATING JURISDICTION: Township of Millstone

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
August 5, 2012	Community Outreach	Posted on <b>Community Bulletin Board</b> : Press Release Moo. Co. Sheriff's Office. Hazard Mitigation Plan Update Process 6/29/12.	Floodplain Administrator
September 5, 2012	Community Outreach	Presentation at Township Committee meeting by Monmouth County Sheriff Shaun Golden.	Township Committee
September 23, 2012	Community Outreach	Distributed Fact Sheet at Millstone Day	OEM Coordinator
October 20, 2012	Community Outreach	Posted on <b>Community Bulletin Board</b> : Press Release Mon. Co. Sheriff's Office. Hazard Mitigation Plan Update Process 10/17/12.	Floodplain Administrator
May 26, 2012	Community Outreach	Posted on <b>Community Bulletin Board</b> : Press Release Mon. Co. Sheriff's Office. Hazard Mitigation Plan Update Process May 2012.	Floodplain Administrator
January 16, 2013	Community Outreach	OEM Presentation at Township Committee meeting, hazard mitigation plan update discussed	Township Committee, County Sheriff and County OEM Coordinator

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For questions, please call 973-883-8500.*



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Township of Millstone**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
January 2013	Community Outreach	Posted on website and email notification (e-Bulletin) sent to Township distribution list: Invitation to residents to attend the January 16 Township Committee meeting on January 13, 2013, to discuss and learn about the emergency management and hazard mitigation process	Township Committee
June 27, 2013	Community Outreach	Posted on <b>Community Bulletin Board</b> : Press Release Mon. Co. Sheriff's Office. Hazard Mitigation Plan Update Process 6/22/13	Floodplain Administrator
September 18, 2013	Community Outreach	Announcement at the Township Committee meeting that there will be an OEM presentation at the October 2, 2013, Township Committee meeting regarding the hazard mitigation plan update	OEM Coordinator
September 22, 2013	Community Outreach	Distributed Fact Sheet at Millstone Day	OEM Coordinator
October 2, 2013	Community Outreach	OEM presentation and discussion of awareness, preparedness and the County Hazard Mitigation Plan Update	OEM Coordinator
March 13, 2014	Community Outreach	Distributed via Millstone e-Bulletin: Mon. Co. Sheriff's Office. Hazard Mitigation Plan Update Process March 3, 2014	Floodplain Administrator

**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Township of Millstone**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
March 13, 2014	Community Outreach	Posted on <b>Community Website:</b> Mon. Co. Sheriff's Office. Hazard Mitigation Plan Update Process	Floodplain Administrator
July 16, 2014	Community Outreach	Posted on <b>Community Website;</b> Plan Fact Sheet July 2014 Mon. Co. Multi-Jurisdictional Plan Update	Floodplain Administrator
July 16, 2014	Community Outreach	Posted on <b>Community Website;</b> Provided link to County Sheriff's Office OEM website, hazard mitigation page	Floodplain Administrator
July 16, 2014	Community Outreach	Posted on Municipal Building Community Bulletin Board; Plan Fact Sheet July 2014 Mon. Co. Multi-Jurisdictional Plan Update	Floodplain Administrator
July 16, 2014	Community Outreach	Posted on Community Center Bulletin Board; Plan Fact Sheet July 2014 Mon. Co. Multi-Jurisdictional Plan Update	Floodplain Administrator
August 13, 2014	Community Outreach	Posted the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update on the Township website and on bulletin boards at the municipal buildings and community center.	OEM Coordinator

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Township of Millstone**

<b>DATE OF ACTIVITY</b>	<b>TYPE OF ACTIVITY</b>	<b>ACTIVITY DETAILS</b>	<b>LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY</b>
August 20, 2014	Community Outreach	Township Committee meeting announcement regarding the Monmouth County multi-jurisdictional hazard mitigation plan update.	Township Committee
September 10, 2014	Community Outreach	Planning Board meeting announcement regarding the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update.	Planning Board
September 17, 2014	Community Outreach	Township Committee meeting announcement regarding the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update.	Township Committee
September 21, 2014	Community Outreach	Distribute Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update information at Millstone Day.	OEM Coordinator
October 1, 2014	Community Outreach	Posted the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update in the Township newsletter which is inserted in the local free newspaper (The Examiner) and posted on the Township website.	OEM Coordinator

**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Township of Millstone**

<b>DATE OF ACTIVITY</b>	<b>TYPE OF ACTIVITY</b>	<b>ACTIVITY DETAILS</b>	<b>LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY</b>
October 8, 2014	Community Outreach	Planning Board meeting announcement regarding the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update.	Planning Board
October 15, 2014	Community Outreach	Township Committee meeting announcement regarding the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update.	Township Committee
November 12, 2014	Community Outreach	Planning Board meeting announcement regarding the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update.	Planning Board
November 19, 2014	Community Outreach	Township Committee meeting announcement regarding the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update.	Township Committee
December 10, 2014	Community Outreach	Planning Board meeting announcement regarding the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update.	Planning Board
December 17, 2014	Community Outreach	Township Committee meeting announcement regarding the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update.	Township Committee



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

#### PARTICIPATING JURISDICTION: Monmouth Beach #1

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
August 2012	Fact Sheet Distributed	Fact Sheet posted in all Municipal Building and the Library, copies available for residents	Emergency Management
11/16/12	Boro/Public Meeting	Boro introduced an Ordinance to encourage residents to raise first floor above base flood elevation, in connection with the HMPG, Mitigation Plan update discussed at meeting.	Mayor Commissioners Emergency Management Public Outreach Residents
12/10/12	Boro/Public Meeting	Discussed Hazard Mitigation Grant Program, NFIP Claims, Construction Questions, Hazard Mitigation Plan update	Mayor Flood Plan Administrator FEMA Reprehensive Public
1/19/13	Public Outreach Recovery meeting	Sandy Grant Funding, Program Requirements, Hazard Mitigation Plan update and potential funding	Emergency Management FEMA Public Construction Department
2/27/13	Public Outreach	email to residents informing them of the HMGP, mitigation plan update, recovery information	Mayor Emergency Management Construction Department

**Please add additional pages as needed and return via email by July 18, 2014 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.**



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

#### PARTICIPATING JURISDICTION: Monmouth Beach #2

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
4/18/13	Public Outreach	E-mail from Mayor ref: Questions regarding Federal Disaster Money. Clarification of FEMA Funds for house raising.	Mayor, Commissioners
May 2013	Public Outreach	Fact Sheet posted in all Municipal Building and the Library, copies available for residents	Emergency Management
6/10/13	Public Outreach	e-mail from Mayor regarding CDBG, additional funding for sandy related losses, hazard mitigation plan update, Construction requirements,	Mayor, Commissioners
7/10/13	Boro/Public meeting	House elevation, Flood Hazard Flood Maps adopted, residents advised about compliance, hazard mitigation plan update discussed	Mayor Commissioners Construction Department Residents
9/11/2013	Public Outreach	Email notification to residents re: application deadline for HMGP funding, mitigation plan update	Mayor
November 2013	Public Outreach	Fact Sheet posted in all Municipal Building and the Library, copies available for residents	Emergency Management

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Monmouth Beach #3**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
February 2014	Boro/Public Meeting	Reexamination of Master Plan in response to Super Storm Sandy, Plan to mitigate risk, Hazard mitigation plan update discussed	Emergency Management, Mayor Commissioners, Construction Residents
April 2014	Public Outreach	Fact Sheet posted in all Municipal Building and the Library, copies available for residents	Emergency Management
7/31/14	Strategic Recovery Planning Report	Received Strategic Recovery Planning Report from Borough Engineer, Hazard Mitigation Plan referenced	Borough Engineer Emergency Management Mayor
August 2014	Public Outreach	Monmouth Beach website linked to County Hazard Mitigation Planning site	Emergency Management, IT
September/October/ November 2014	Website Updated	Notify residents of Draft Hazard Mitigation Plan release for review, linked to County site. Post Press Release from Monmouth County Sheriff's Office announcing Draft Hazard Mitigation Plan release on the Monmouth Beach OEM Website and post in Borough Hall	Emergency Management, IT
September/October/ November 2014	Boro/Public Meetings	Notify Residents at meeting each month that the draft hazard mitigation plan has been released	Emergency Management Mayor Commissioners Borough Engineer



Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: Neptune City #1

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
10/22/12	Disaster Plan Meeting	Mitigation Plan update discussed	Emergency Management Mayor / Council Members Borough Administrator Director of Public Safety Director of Public Works Fire Chief & First Aid Captain
10/29/12	Disaster Plan Meeting	Discussed Mitigation Plan update and Emergency Plans in process due to Super Storm Sandy	Emergency Management Mayor / Council Members Borough Administrator Director of Public Safety Director of Public Works Fire Chief & First Aid Captain Construction Officials
11/2/12	Disaster Plan And Recovery Meeting	Discussed Mitigation Plan and Emergency Plans in process due to Super Storm Sandy	Emergency Management Mayor / Council Members Borough Administrator Director of Public Safety Director of Public Works Fire Chief & First Aid Captain Construction Officials
11/26/12	Public Council Meeting	Discussed After Action Emergency Plan along with Mitigation Funding and plan update	Emergency Management Mayor / Council Members Borough Administrator Director of Public Safety Director of Public Works Fire Chief & First Aid Captain

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: Neptune City #2

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
12/17/12	Safety Committee Meeting	Discussed the Safety of all Borough Buildings and the details for an evacuation during a weather related emergency. Mitigation plan update discussed, potential funding	Employees from the Police Department, Administrators Office, Court Office, Library, Department of Public Works, Fire Chief, First Aid Captain and Emergency
2/14/13	Mitigation Meeting	Meeting to discuss available FEMA funding for Mitigation. Funding to help with mitigation planning, ongoing plan update discussed	Emergency Management Borough Administrator FEMA Representative
9/16/13	Boro/Public Meeting Public Outreach	House elevation, Flood Hazard Flood Maps and Zones, residents advised about compliance, hazard mitigation plan update discussed	Mayor Council Members Emergency Management Borough Administrator Borough Engineer Construction Department Residents
3/20/14	Boro/Public Meeting Public Outreach	House elevation, Flood Hazard Flood Maps and Zones, residents advised about compliance, hazard mitigation plan update discussed	Mayor Council Members Emergency Management Borough Administrator Borough Engineer Construction Department Residents



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: Neptune City #3

7/28/14	Boro/Public Meeting Public outreach	Notified residents of pending Draft Hazard Mitigation Plan release for review	Mayor/Council Members Administrator Emergency management Police department Fire Chief First Aid Captain Director of Public Works
7/28/14	Website updated	Linked Neptune City website to County site, posted statement from County announcing draft plan release in early fall on NC website	Emergency Management Administration
August through December 2014	Boro/Public Meetings	At the upcoming meetings, announcements regarding the pending and actual draft Hazard Mitigation plan release and final FEMA approval. Residents will be directed to the County website for review.	Mayor/Council Members Administrator Emergency management Police department Fire Chief First Aid Captain Director of Public Works
September through December 2014	Website updated	Website will continue to post updates regarding draft plan release and direct residents to the County hazard planning website.	Emergency Management Administration

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anna.foley@urs.com. For questions, please call 1973-883-8500.*



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Neptune Township (1 of 6)**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
July 12, 2012	Local Emergency Planning Committee meeting	Reviewed Hazard Mitigation Plan as an agenda item, update of the 2009 plan to begin, Kickoff meeting scheduled.	Township Engineer (Leanne R. Hoffmann), Township Administrator (Vito Gadaleta), Emergency Management Coordinator (Michael J. Bascom) & Administration Dept.
September 14, 2012	Local Emergency Planning Committee Meeting	Reviewed Hazard Mitigation Plan as an agenda item, planning process explained at the kickoff meeting, same contractor as the current plan.	Township Engineer (Leanne R. Hoffmann), Township Administrator (Vito Gadaleta), Emergency Management Coordinator (Michael J. Bascom) & Administration Dept.
December 13, 2012	Local Emergency Planning Committee Meeting	Reviewed Hazard Mitigation Plan as an agenda item, along with SS Sandy recovery.	Township Engineer (Leanne R. Hoffmann), Township Administrator (Vito Gadaleta), Emergency Management Coordinator (Michael J. Bascom) & Administration Dept.
December 29, 2012	Township Public Outreach Program	Provided recovery resources and information to victims of Hurricane Sandy, information on the Hazard Mitigation Plan & FAQ's	Mayor & Committee Members, Township Administrator (Vito Gadaleta), Township Engineer (Leanne R. Hoffmann), Zoning Officer (George Waterman), Community Programs Coordinator (Monique' Burger), Administration Dept., FEMA representatives and SBA representatives.

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Neptune Township (2 of 6)**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
December 30, 2012	Township Public Outreach Program	Provided recovery resources and information to victims of Hurricane Sandy, information on the Hazard Mitigation Plan update & FAQ's	Mayor & Committee Members, Township Administrator (Vito Gadaleta), Township Engineer (Leanne R. Hoffmann), Zoning Officer (George Waterman), Community Programs Coordinator (Monique' Burger), Administration Dept., FEMA representatives and SBA representatives.
January 7, 2013	Recovery Assistance Committee (RAC) Meeting	Reviewed Hazard Mitigation Plan as an agenda item, recovery issues	Township Engineer, Township Administrator, Emergency Management Coordinator, Zoning Officer and Community Programs Coordinator.
February 5, 2013	Recovery Assistance (RAC) Meeting	Reviewed Hazard Mitigation Plan as an agenda item, recovery issues	Township Engineer, Township Administrator, Emergency Management Coordinator, Zoning Officer and Community Programs Coordinator.
August 8, 2013	Local Emergency Planning Committee Meeting	Reviewed Hazard Mitigation Plan update as an agenda item, where the process is presently, worksheet deadlines	Township Engineer, Township Administrator, Emergency Management Coordinator & Administration Dept.

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Neptune Township (3 of 6)**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
November 27, 2013	Local Emergency Planning Committee meeting	Reviewed Hazard Mitigation Plan as an agenda item, worksheet(s) content to date.	Township Engineer, Township Administrator, Emergency Management Coordinator & Administration Dept.
January 2, 2014	Local Emergency Planning Committee Meeting	Reviewed Hazard Mitigation Plan update as an agenda item, ongoing process.	Township Engineer, Township Administrator, Emergency Management Coordinator & Administration Dept.
February 2, 2014	Local Emergency Planning Committee Meeting	Reviewed Hazard Mitigation Plan update as an agenda item, ongoing process, Mitigation strategy discussed, action worksheet 7 discussed	Township Engineer, Township Administrator, Emergency Management Coordinator & Administration Dept.
March 27 <sup>th</sup> , 2014	Local Emergency Planning Committee Meeting	Reviewed Hazard Mitigation Plan update as an agenda item, ongoing process, Mitigation strategy discussed, action worksheet 7 discussed	Township Engineer, Township Administrator, Emergency Management Coordinator & Administration Dept.

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** Neptune Township (4 of 6)

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
March 2014	Added to Neptune Township website	Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update- Factsheet	Administration Department (Roberta Grace, Special Projects)
March 2014	Added to Neptune Township Facebook Page	Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update- Factsheet	Administration Department (Roberta Grace, Special Projects)
March 2014	Posted/distributed in all Township buildings	Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update- Factsheet, copies available for residents to pick up.	Administration Department (Tiffany Bailoni, Customer Service Representative)
May 22, 2014	Local Emergency Planning Committee Meeting	Reviewed Hazard Mitigation Plan as an agenda item, Mitigation strategy discussed, ongoing discussions/revisions to action worksheet 7	Township Engineer, Township Administrator, Emergency Management Coordinator & Administration Dept.

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Neptune Township (5 of 6)**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
July 14, 2014	Emailed to 13 separate homeowners groups/associations	Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update- Factsheet	Administration Department (Monique' Burger, Community Programs Coordinator)
July 16, 2014	Monmouth County OEM website link posted to Neptune Township website	Hazard Mitigation Plan update and Monmouth County OEM website link added to Neptune Township website.	Administration Dept. (Roberta Grace, Special Projects)
July 24, 2014	Local Emergency Planning Committee Meeting	Reviewed Hazard Mitigation Plan as an agenda item, pending draft plan release	Township Engineer, Township Administrator, Emergency Management Coordinator & Administration Dept.
September 2012 – present (Ongoing)	Regular public meeting of the Neptune Township Planning Board	Hazard Mitigation Plan update mentioned/discussed, general information regarding the planning process, funding benefits, information being submitted to contractor.	Land Use Department (Leanne R. Hoffmann, Director of Engineering and Planning) & Neptune Township Planning Board of Adjustment (Kristi Armour, Administrative Officer)
August 2012- present (ongoing)	Color copies made available in Municipal Complex Rotunda and Engineering Department counter	Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update- Factsheet, copies available for residents to pick up	Administration Department & Engineering Department (Leanne R. Hoffmann, Director of Engineering and Planning)
September 2012- present (ongoing)	Neptune Township Newsletter	General Hazard Mitigation Plan Updates included in Township newsletter distributed to all residents	Township Administrator, Township Engineer, Emergency Management Coordinator & Special Projects (Administration Dept.)
August 2012- present (ongoing)	Neptune Township Committee/Public Meetings	Hazard Mitigation Plan update mentioned/discussed, general information regarding the planning process, funding benefits, information being submitted to contractor	Mayor & Committee Members, Township Administrator, Township Engineer, Emergency Management Coordinator, Township Clerk & Administration Dept.

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** Neptune Township (6 of 6)

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
August 2014-  (Still ongoing)	Neptune Township Newsletter	Hazard Mitigation Plan updates to be included in Township newsletter distributed to all residents. Pending draft plan release.	Township Administrator, Township Engineer, Emergency Management Coordinator & Special Projects (Administration Dept.)
August 2014-  (ongoing)	Neptune Township Committee/Public Meetings	Hazard Mitigation Plan to be an agenda item at each meeting, pending draft plan release	Mayor & Committee Members, Township Administrator, Township Engineer, Emergency Management Coordinator, Township Clerk & Administration Dept.
August 2014-	Implementation of an OEM app for mobile phones	Monmouth County OEM website will be linked to the mobile app.	Township Administrator, Emergency Management Coordinator, Township Engineer & Administration Dept.
August 2014-	Neptune Township Newsletter	Information and resources on newly developed OEM app for mobile phones. Monmouth County OEM website to be linked.	Township Administrator, Emergency Management Coordinator, Township Engineer & Administration Dept.

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:**     Ocean Township #1    

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
August 2012	Fact Sheet distributed	Monmouth County Mitigation Plan Update fact Sheet posted in Town Hall	OEM Coordinator
October 2012	Website updated	Linked Ocean Township OEM website to the Monmouth County Sheriff's Office, OEM, Hazard Mitigation Planning webpage	OEM Coordinator

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: Ocean Twp #2

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
11/28/12	Meeting with residents	Met with residents on Branch Rd to discuss Hazard Mitigation plan update to assist with flooding	OEM Director Tom Caruso, several residents in area
12/7/12	After Action Mtg	To discuss SS Sandy and discussed the hazard mitigation plan update to assist with flooding issues in town	OEM Director Tom Caruso, Township Manager Andrew Brannen, Police Chief Peters, members of the Oakhurst FD/EMS, Wanamassa FD/EMS and the public
12/27/12	Council Meeting	Adopted a resolution to assist a senior complex and mitigation funds and discussed how we received the mitigation grant and the hazard mitigation plan update.	OEM Director Tom Caruso, Township Manager Andrew Brannen, Mayor and Council along with the Twp Attorney.
1/11/13	Mitigation Meeting	Discuss flooding issues with mitigation for Whalepond Brook , public meeting	OEM Director Tom Caruso, Township Manager Andrew Brannen, DPW Director Tom Crochet, Twp Engineer Greg Blash, Monmouth County Parks rep, Monmouth County Engineers, Long Branch Officials, Eatontown Officials, Ocean Twp Residents
2/15/13	Mitigation Meeting	Continue discussions regarding flooding issues and potential mitigation of Whalepond Brook , public meeting	OEM Director Tom Caruso, Township Manager Andrew Brannen, DPW Director Tom Crochet, Twp Engineer Greg Blash, Monmouth County Parks rep, Monmouth County Engineers, Long Branch Officials, Eatontown Officials, Ocean Twp Residents



2/4/13	Public Meeting discussing mitigation options	Met with residents regarding mitigation options available to them, discussed hazard mitigation plan update	OEM Director Tom Caruso, Township Manager Andrew Brannen, Ocean Twp residents
2/1/14	Public Info	Posted Details on the Hazard Mitigation Plan update on public bulletin boards	OEM Director Tom Caruso
3/6/14	Council Meeting, open public meeting	Mayor and Council Discussed the hazard mitigation plan update	Twp Clerk Vinny Buttiglieri, Mayor William Larkin, Deputy Mayor Chris Siciliano, Councilman Mike Evans, Councilman William Garofalo, Councilwomen Donna Schepiga, Twp Attorney Martin Arbus, Twp residents
3/22/13	Mitigation Meeting	Discuss issues with mitigation of Whalepond Brook , hazard mitigation plan update, public meeting	OEM Director Tom Caruso, Township Manager Andrew Brannen, DPW Director Tom Crochet, Twp Engineer Greg Blash, Monmouth County Parks rep, Monmouth County Engineers, Long Branch Officials, Eatontown Officials, Ocean Twp Residents
4/15/14	Stakeholder meeting	Discuss with Fire and EMS within the township on the hazard mitigation plan update	OEM Director Tom Caruso, Deputy Coordinator Craig Flannigan, Deputy Coordinator Tom Reu, Fire Marshal Chris Pujat, Fire Marshal Tom Haege, OEM Admin Assistant Debbie Fromkin, First Aid Officer Pat Doughty, First Aid Officer Andy Beringer, Fire Chief/Councilman Mike Evans, FD Member Pat Barrett, and First Aid Officer Cathy Easton
7/17/14	Stakeholder meeting	Discuss with different municipal departments within the township on the hazard mitigation plan update	OEM Director Tom Caruso, Finance Officer Kimber Williams, Police Chief Steve Peters, Police Lt Tim Torchia, DPW Foreman Hank Kliem
7/17/14	Stakeholder meeting	Discuss hazard mitigation Plan update with School officials	OEM Director Tom Caruso, School, Superintendent James Stefankiewicz and various school officials





**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** \_\_\_\_\_ Ocean Township #3 \_\_\_\_\_

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
September/October 2014	Website updated	Post Draft Hazard Mitigation Plan on the Ocean Township OEM website for residents to review	OEM Coordinator
September/October 2014	Website updated	Post Press Release from Monmouth County Sheriff's Office announcing Draft Hazard Mitigation Plan release on Ocean Township OEM website and post in Borough Hall	OEM Coordinator

***Please add additional pages as needed and return via email by July 18, 2014 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.***



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

#### PARTICIPATING JURISDICTION: Boro of Oceanport

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DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
10/17/12	Pnstiog no web site	Press release and link posted on Boro Web site	Buzz Baldanza, OEM; Web design staff
10/17/12	Posting in Boro Hall	Posted press release in Boro Hall Office and Library.	Buzz Baldanza, OEM; Jeanne Smith Dep Clerk
10/17/12	Facebook posting	Posting of press release on Facebook page with link	Buzz Baldanza, OEM; Councilman Joe Irace
10/17/12	Boro Bulletin	Request the press release to appear in the next Boro Bulletin	Buzz Baldanza, OEM; Laura McCrue, Editor

**Please add additional pages as needed and return via email by May 1, 2013 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.**





## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

#### PARTICIPATING JURISDICTION: Oceanport Borough

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
11/4/12	Public Meeting attended by over 400, lasted 4 hours	Had representatives from Mitigation, FEMA, NFIP, SBA to discuss information available to residents after Sandy; also discussed Natural Hazard Plan update, mitigation proposals which are part of plan	Buzz Baldanza, OEM Coordinator
11/4/12 To 2/28/13	Ongoing Outreach to public	Provided information and materials to residents daily and on Saturday who came to our Outreach center at Port-au-Peck Fire house and Shelter at Maple PI School from 11/4/12 to 2/28/13	Buzz Baldanza, OEM Coordinator and OEM Volunteers
1/9/13	Hazard Mitigation Mtg	Meeting of small committee to discuss mitigation issues, mitigation as to Sandy and what could possibly be included in Natural Hazard Mitigation Plan	Buzz Baldanza, OEM Coordinator Kim Jungfer, Boro Administrator Bill White, Boro Engineer Sue Scavone, Consultant
1/23/13	Hazard Mitigation Mtg	Meeting of small committee to discuss mitigation issues, mitigation as to Sandy and what could possibly be included in Natural Hazard Mitigation Plan	Buzz Baldanza, OEM Coordinator Kim Jungfer, Boro Administrator Bill White, Boro Engineer Sue Scavone, Consultant
2/6/13	Hazard Mitigation Mtg	Meeting of small committee to discuss mitigation issues, mitigation as to Sandy and what could possibly be included in Natural Hazard Mitigation Plan	Buzz Baldanza, OEM Coordinator Kim Jungfer, Boro Administrator Bill White, Boro Engineer Sue Scavone, Consultant

**Please add additional pages as needed and return via email by May 1, 2013 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.**





## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

#### PARTICIPATING JURISDICTION: Oceanport Borough

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
2/20/13	Hazard Mitigation Mtg	Meeting of small committee to discuss mitigation issues, mitigation as to Sandy and what could possibly be included in Natural Hazard Plan	Buzz Baldanza, OEM Coordinator Kim Jungfer, Boro Administrator Bill White, Boro Engineer Sue Scavone, Consultant
3/14/13	Hazard Mitigation Mtg	Meeting of small committee to discuss mitigation issues, mitigation as to Sandy and what could possibly be included in Natural Hazard Plan	Buzz Baldanza, OEM Coordinator Kim Jungfer, Boro Administrator Bill White, Boro Engineer Sue Scavone, Consultant
2/19/13	Resolution Passed	Resolution passed by council to amend Natural Hazard Plan priority to make Elevation of Homes the number 1 priority. Retained prior mitigation priorities that were listed in 2009	Boro Council and Mayor
10/21/13	Public Meeting	Public meeting to provide information about the updating of the plan and provide handouts to explain and process and contact information if the wanted to provide feedback	Buzz Baldanza. OEM Coordinator

**Please add additional pages as needed and return via email by May 1, 2013 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.**





## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION:  Oceanport Borough

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
2/3/2014	Posting in Boro	Posting again and placement of flyers for distribution in public locations within Boro Buildings	Buzz Baldanza, OEM Coordinator
4/1/2014	Posting in Boro	Replenish flyers in Boro Buildings, due to moving of offices and library.	Buzz Baldanza, OEM Coordinator
6/30/14	Outreach	Distribution of handouts to explain the process and contact information if people wanted to provide feedback at public locations in Boro.	Buzz Baldanza, OEM Coordinator
Sept 2014	Outreach	Plan on placing article in Boro newsletter on the draft plan, have a link on web-site for plan review by public. Mention at public meeting about review process. Have Facebook and Twitter carry information. Use Code Red to send out e-mail to Boro residents	Buzz Baldanza, OEM Coordinator
9/7/14	Festival	On 9/7, we did an outreach at our town festival from 4-8pm. information and comments sheet issued.	Buzz Baldanza, OEM Coordinator

**Please add additional pages as needed and return via email by May 1, 2013 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.**





**Monmouth County Multi-Jurisdictional**

**Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: \_\_\_RED BANK 1\_\_\_**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
8/2012	FAX SHEET DISTRIBUTED	MONMOUTH COUNTY MITIGATION PLAN UPDATE FACT SHEET POSTED AND COPIES LEFT AT BOROUGH HALL AND LIBRARY	OEM COORDINATOR
9/9/2012	COMMUNITY/PUBLIC EVENT	MONMOUTH COUNTY MITIGATION PLAN UPDATE FACT SHEET DISTRIBUTED	OEM COORDINATOR
10/7/2012	COMMUNITY/PUBLIC EVENT	MONMOUTH COUNTY MITIGATION PLAN UPDATE FACT SHEET DISTRIBUTED DURING COMMUNITY EVENT FIRE EXPO DISCUSSED WITH RESIDENTS	OEM COORDINATOR
10/21/2012	FIRE DEPT. FUNDRAISER	MONMOUTH COUNTY MITIGATION PLAN UPDATE FACT SHEET DISTRIBUTED DURING COMMUNITY EVENT FIRE EXPO DISCUSSED WITH RESIDENTS	OEM COORDINATOR



**Monmouth County Multi-Jurisdictional**

**Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:     RED BANK 2**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
10/6/2012	COMMUNITY EVENT	MONMOUTH COUNTY MITIGATION PLAN UPDATE FACT SHEET DISTRIBUTED DURING JOHN STREET BLOCK PARTY	OEM COORDINATOR
10/21/12	COMMUNITY EVENT	MONMOUTH COUNTY MITIGATION PLAN UPDATE FACT SHEET DISTRIBUTED ANNUAL HALLOWEEN PARADE	OEM COORDINATOR
11/23/12	COMMUNITY EVENT	MONMOUTH COUNTY MITIGATION PLAN UPDATE FACT SHEET DISTRIBUTED SANTA EXPRESS AND HOLIDAY CONCERT	OEM COORDINATOR



**Monmouth County Multi-Jurisdictional**

**Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: RED BANK 3**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
4/14/13	COMMUNITY PUBLIC EVENT	MONMOUTH COUNTY MITIGATION PLAN UPDATE FACT SHEET DISTRIBUTED DURING PBA STREET FAIR	OEM COORDINATOR/CERT TEAM
6/1/13	COMMUNITY PUBLIC EVENT	MONMOUTH COUNTY MITIGATION PLAN UPDATE FACT SHEET DISTRIBUTED DURING RED BANK RIVERFEST	OEM COORDINATOR
6/29/13	COMMUNITY PUBLIC EVENT	MONMOUTH COUNTY MITIGATION PLAN UPDATE FACT SHEET DISTRIBUTED DURING RED BANK SIPPIN ON RIVER FUNDRAISER	OEM COORDINATOR/DEPUTY COORDINATOR
12/7/2013	COMMUNITY PUBLIC EVENT	MONMOUTH COUNTY MITIGATION HANDED OUT FACT SHEET AND DISCUSSED WITH RESIDENTS	OEM COORDINATOR



**Monmouth County Multi-Jurisdictional**

**Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: RED BANK 4**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
8/13/2014	PUBLIC MEETING	ATTENDED COUNCIL MEETING TO DISCUSS UPDATED MONMOUTH COUNTY MITIGATION FACT SHEET AND NOTIFY RESIDENTS DRAFT PLAN WILL BE AVAILABLE FOR REVIEW	PUBLIC INFORMATION OFFICER
8/18/14	WILL ATTEND PUBLIC MEETING	WILL NOTIFY PLANNING BOARD AND RESIDENTS THE DRAFT PLAN WILL BE AVAILABLE FOR REVIEW	OEM DEPUTY COORDINATOR
8/8/14	WEBSITE UPDATED	OEM WEBSITE UPDATED AND SHERIFFS OFFICE LINK ADDED FOR MONMOUTH COUNTY MITIGATION UPDATE	OEM COORDINATOR
9/10/2014 9/15/2014	PUBLIC MEETINGS	PLANNING BOARD AND COUCIL MEETING WILL NOTIFY RESIDENTS THE DRAFT PLAN WILL BE AVAILBLE FOR REVIEW	OEM COORDINATOR/PIO/DEPUTY COORDINATOR



**Monmouth County Multi-Jurisdictional**

**Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:     RED BANK 5**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
10/8/2014 10/20/2014	PUBLIC MEETINGS	PLANNING BOARD AND COUCIL MEETING WILL NOTIFY RESIDENTS THE DRAFT PLAN WILL BE AVAILABLE FOR REVIEW	OEM COORDINATOR/PIO/DEPUTY COORDINATOR
11/19/2014	PUBLIC MEETINGS	PLANNING BOARD AND COUCIL MEETING WILL NOTIFY RESIDENTS THE DRAFT PLAN WILL BE AVAILABLE FOR REVIEW	OEM COORDINATOR/PIO/DEPUTY COORDINATOR



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION:     Roosevelt    

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
End of August 2014	Community Outreach	Borough Bulletin mailed to all residents and local businesses and by email to all who request it; to include the Hazard Mitigation Plan Fact Sheet  Roosevelt does not have a municipal website	Councilman
End of September 2014	Community Outreach	Borough Bulletin mailed to all residents and local businesses and by email to all who request it; to include the Hazard Mitigation Plan Fact Sheet and notify residents of draft plan release date and available on County website (link)  Roosevelt does not have a municipal website	Councilman
End of October 2014	Community Outreach	Borough Bulletin mailed to all residents and local businesses and by email to all who request it; to include the Hazard Mitigation Plan Fact Sheet and notify residents of draft plan release date and available on County website (link)  Roosevelt does not have a municipal website	Councilman
End of November 2014	Community Outreach	Borough Bulletin mailed to all residents and local businesses and by email to all who request it; to include the Hazard Mitigation Plan Fact Sheet and notify residents of draft plan release date and available on County website (link)  Roosevelt does not have a municipal website	Councilman



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION:     RUMSON    

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
July 2012	Kickoff meeting with Monmouth County all municipalities and URS	Review Documents related to Hazard Mitigation Plan update	Administration, Engineer, Department heads
July 2012	Council Meeting/Public Meeting	Report on the process to revise the Hazard Mitigation Plan in the next 24 months	Administration, Mayor and Council
Sept 2012	Website Update	Added Monmouth County Website to Borough Website link noting Hazard Mitigation Planning	Webmaster and Administrator
Oct 2012	Hurricane SANDY		

March 2013	Monmouth County Meeting regarding Hazard mitigation Plan Update	Hazard Mitigation Plan Development process and requirements discussed	Administration and Police Department
March 2013	Administration Meeting with Borough Engineer	Meeting about the Hazard Mitigation Plan update and how engineer will be involved to assist with the planning process	Administration, Public Works, Engineer
April 2013	Monmouth County Meeting regarding Hazard mitigation Plan Update	Hazard Mitigation Presentation/ Discussions about plan update documents and requirements	Administration, MC OEM
April 2013	Council Meeting/Public meeting	Discussion on progress of Hazard Mitigation Plan Update with Monmouth County, various municipal topics discussed.	Mayor, Council, Administration, Borough Engineer
June 2013	Monmouth County Meeting regarding Hazard mitigation Plan Update	Hazard Mitigation Plan update presentation and discussion of process and required documentation moving forward	Administration and Finance
July 2013	Website Outreach	Update link to Monmouth County Website to the Rumson Website with a link to the Hazard Mitigation Plan Update page on Rumson Storm Page and Home Page	Administration and Webmaster

Sept 2013	Council Meeting/ Public Meeting	Discuss the State's Strategic Recovery Planning Grant and how the application process will work, discuss the hazard mitigation plan update and how it fits in with this grant.	Mayor and Council and Administrator
Oct 2013	Stakeholder Meeting	Hazard Mitigation Plan update meeting with JCPL Electric company	Mayor, Administration, JCPL Manager
Nov 2013	Public Council Meeting	Reviewed the NJ Dept. of Community Affairs Strategic Recovery Planning Grant Award and process including the connection to the MC Hazard Mitigation Plan Update	Mayor, Council, Administration, Borough Engineer
Jan 2014	Council Meeting/ Public Meeting	Presented Strategic Recovery Planning Grant Report to public identifying Hazard Mitigation Plan update	Mayor, Council, Administration, Borough Engineer
Jan 2014	Administration Meeting with Department Heads	Discussion on Submission of Completed SRPR to State for Review; Hazard Mitigation Plan update process	Administration, Municipal Departments Heads, NJ Department of Consumer Affairs
Feb 2014	Monmouth County Meeting regarding Hazard mitigation Plan Update	Administration attends Monmouth County Planning Meeting for the Hazard Mitigation Plan Update, required documents	Administration, County OEM

April 2014	Administration Meeting with Borough Engineer	Planning meeting with Department Heads on Strategic Recovery Planning Report And Hazard Mitigation Plan Update Discussions	Administration, Borough Engineer, Construction Office, Police Department, Public Works, Finance
May 2014	Staff Meeting	Planning Discussion, general topics and Hazard Mitigation Plan Update	Administration and all Municipal Department Heads
May 2014	Parade/Public Outreach	At Rumson Parade hosted table for Hazard Mitigation Plan update, Fact Sheet distributed, discussed plan update with residents. FEMA and Grant Information available	Borough Staff
August 2014	Award Bid for Strategic Recovery Planning Report	Borough Awarded Engineering Contract to continue to work on Hazard Mitigation Plan update going forward through this additional funding	Mayor, Council and Administration
August, Sept, Oct, Nov 2014	Strategic Recovery Planning Report	Complete Hazard Mitigation Plan Update portion of Strategic Recovery Planning Report Submit updates to the NJ DCA and update plan accordingly	Administration and Borough Engineer
August, Sept, Oct, Nov 201	Public Outreach	Notification of Draft Plan release for review to residents via Rumson website and announcements at regularly scheduled council/public meetings during these months.	Mayor, Council, Administration, Borough Engineer

**Please add additional pages as needed and return via email by July 18, 2014 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.**



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

#### PARTICIPATING JURISDICTION: *Sea Bright*

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
11/1/2012-7/8/2014	Council Meetings (average 2 per month)	Mayor, Council, and OEM Coordinator provided updates on the Hazard Mitigation Plan, Disaster recovery and addressed citizen's concerns through public comment and discourse. These meetings were open to the public.	Mayor / Council OEM Coordinator Borough employees/ staff
11/2012 – 7/2014	Council Workshops Monthly	Mayor, Council, OEM Coordinator and Borough Professionals discuss mitigation planning and options, current projects and addressed citizen's concerns through public comment and discourse. Guest speakers and presentations on sustainability, green energy and other municipal concerns were addressed. These meetings were open to the public.	Mayor/ Council OEM Coordinator Borough employees/ staff Borough Professionals Guest Speakers
11/1/2012-6/12/2014	Town Hall Meetings Monthly (bi-monthly initially following storm)	Mayor/ Council led specialized meetings to discuss topical issues addressing community. Guest speakers, presentations and Q&A sessions, as well as general updates on Sandy recovery and mitigation plan. (HMP, Flood insurance, NFIP, Mitigation, elevation, dunes, sustainability, utilities, mold, sea wall) Open to the public.	Mayor/ Council OEM Coordinator Borough employees/ staff Guest speakers
1/2013-6/2013	Recovery Action Team (Weekly)	Weekly meetings with Borough selected team of residents, business owners, staff and government officials discussed and developed strategies for sustainability, recovery planning and mitigation options.	Council Borough Staff Residents Business Owners
1/2013 – 6/2014	Sea Breeze Newsletter Quarterly (email/ Hard Copy)	Quarterly newsletter distributed to all residents via bulk mail and was available online and via email. Information included upcoming calendar of events, meeting schedules, program/ grant opportunities, mitigation planning, mitigation information; as well as updates by Government officials.	Mayor/ Council OEM Coordinator Borough employees/ staff

## SEA BRIGHT

1/11/2013 - 4/30/2014	Berms Committee Weekly Meetings	Specialized committee that assisted with the creation of the berms. Held weekly meetings, chaired by OEM Coordinator to create plan, discuss best mitigation option and schedule work. Educational materials on berms were created and distributed to governing body and community by this committee.	Council/ OEM Coordinator Borough employees/staff Residents Business owners Community Organizations
2/7/2013	Website Update	Designed OEM/ CRS section for website.	OEM Coordinator Website Manager
3/20/2013	Technology for Mitigation Presentation	NJIT presentation on technology and mitigation for resiliency. Focused on coastal mitigation designs using technologically advanced materials. Presentation was open to the public.	NJIT Mayor/Council
6/3/2013 – 1/22/2014	Weekly Newsletter with Sea Bright Resource Center (Hard Copy & Electronic) Website	Borough provided updates that were featured in each weekly newsletter. Information included upcoming calendar of events, meeting schedules, program/ grant opportunities, mitigation planning, mitigation information, project timelines and educational seminars.	Mayor/ Council OEM Coordinator Borough employees/ staff Sea Bright Resource Center
7/22/2013- 11/14/2014	Sea Bright 2020 <ul style="list-style-type: none"> <li>• Weekly</li> <li>• Monthly</li> </ul>	Community driven process which articulated projects using mitigation to create a more resilient and sustainable Sea Bright. Monthly project meetings and weekly subcommittee meetings were open to the public and discussed mitigation information, sustainability, resiliency, and funding feasibility. Educational presentations were made by guest speakers, government officials and community members.	Mayor/ Council OEM Coordinator Borough employees/ staff State/Federal Agencies Community/ Business Leaders
9/10/2013	H209 Water Forum	Sea Bright was a shirt sleeve session for H209 forum. Experts discussed the newest technology and information about mitigation techniques for areas located on the water. This forum was open to the public.	Mayor/ Council Henry Hudson 500
10/3/2013 – 6/5/2014	Bi-monthly Emails	Bi monthly emails distributed to residents and community members. Provided overview and updates on mitigation and mitigation planning items. Notify residents/ business owners of upcoming grant opportunities.	Mayor/ Council OEM Coordinator Borough employees/ staff
1/4/2014- 7/18/2014	Sustainable Sea Bright Bi-monthly meetings	Specialized committee that discusses sustainability and mitigation opportunities for Borough. Topics include elevation, flood proofing, bulkheads, sea wall, berms, utilities, resiliency measures and funding. Guest speakers/ Presentations on sustainability and resiliency.	Mayor/Council Borough employees/staff Residents Business owners Guest speakers
7/10/14	Getting to Resilience Presentation	The Borough council and department heads met with the Jacques Cousteau National Estuarine Research Reserve to complete the survey and finalize the report which was presented to the Mayor, Council and community at a public workshop.	Mayor/Council OEM Coordinator Borough employees/staff JCNERR



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: BorMugh Mf Sea Girt (1)**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
8/8/2012	Public Outreaco	Hazard Mitigation Plan Update Fact Sheet distributed to all Departments, posted on Borough website and in public buildings, including Library and Post Office, announced at public meeting	Emergency Management, Administration, Municipal Clerk
Sept. 2012 to Present	Monthly Public Meetings – Wreck Pond Stormwater Management Plan Committee	Discuss mitigation options to reduce flooding at Wreck Pond. Hazard Mitigation Plan Update was also discussed at various meetings, including cost/benefit analysis, possible sources of funding for mitigation projects.	Monmouth County staff, municipal officials and residents from Spring Lake, Spring Lake Heights, Wall Twp., and Sea Girt, including members of Wall Twp. Environmental Committee.
Sept. 2012	Website Update	Link to Monmouth County OEM website on Emergency Management and Links pages	Administration, Municipal Clerk
11/12/2012	Public Meeting	Post-Sandy review of impact on Borough of Sea Girt residents and facilities, flooding, options for mitigation and Hazard Mitigation Plan/grant opportunities for mitigation projects included in original plan	Administration, Borough Engineer

***Please add additional pages as needed and return via email by July 18, 2014 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.***



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Borough of Sea Girt Page( 2)**

<b>DATE OF ACTIVITY</b>	<b>TYPE OF ACTIVITY</b>	<b>ACTIVITY DETAILS</b>	<b>LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY</b>
April 2013	Public Outreach/Website updated	Hazard Mitigation Plan Fact Sheet distributed to all Departments, posted on the Borough website and in public buildings, including library and Post Office	Emergency Management, Administration, Municipal Clerk
June – December 2013	Public Outreach	Monthly email bulletin to residents regarding emergency preparedness, hurricane season, “go-kits”, hazard mitigation plan update	Emergency Management, Administration, Municipal Clerk
8/28/13	Public Meeting	Discussion of new flood maps and flood zone elevations, including mitigation techniques for retrofitting existing housing stock and construction of new homes; elevation techniques and the hazard mitigation plan update	Administration, Borough Engineer, Planning Board members
January 2014	Public Outreach/Website updated	Hazard Mitigation Plan Fact Sheet distributed to all Departments, posted on the Borough website and in public buildings, including library and Post Office	Emergency Management, Administration, Municipal Clerk



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** \_\_\_Borough of Sea Girt (3)\_\_\_\_\_

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
April 2014	Public Outreach/Website updated	Hazard Mitigation Plan Fact Sheet distributed to all Departments, posted on the Borough website and in public buildings, including library and Post Office	Emergency Management, Administration, Municipal Clerk
May - December 2014	Public Outreach	Monthly email bulletin to residents regarding emergency preparedness, hurricane season, "go-kits", hazard mitigation plan update	Emergency Management, Administration, Municipal Clerk
August 27, 2014	Council Meeting/Public Meeting	Notification to residents regarding pending release of the draft hazard mitigation plan, refer residents to County website to review the updated plan	Emergency Management, Administration, Municipal Clerk Borough Engineer
Sept/Oct/Nov/Dec 2014	Council Meeting/Public Meeting	At meeting each month, notification to residents regarding pending and or actual release of the draft hazard mitigation plan, refer residents to County website to review the updated plan	Emergency Management, Administration, Municipal Clerk Borough Engineer



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: Shrewsbury Borough

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
8/30/2012	Press release	Wrote an article on Natural Hazard Mitigation Plan Update which was published on 10/11/12 in Municipal Newsletter	OEM Coordinator
4/4/2013	Planning/Zoning Presentation  Public meeting	Presented Hazard Mitigation Plan update process and sought ideas for reduction in damages and costs from natural hazard events	OEM Coordinator Planning Board Zoning Officer
4/11/2013	Multimedia release	Posted Hazard Mitigation Plan update and requested comments on municipal website	OEM Coordinator, Web administrator
6/30/2013	Fact Sheet	Fact Sheet of Plan Update posted at all Municipal Building and copies available for residents to pick up	OEM Coordinator, Municipal officials

7/2013	Website updated	Posted Plan information on our website and provided a link to the Monmouth County Sheriff's website, OEM, Hazard planning page for additional information	OEM Coordinator, Web administrator	
1/23/2014	LEPC Meeting	Hazard Mitigation Plan update discussed, worksheet completion	OEM Coordinator, Borough agencies, Department heads	
4/2014	Fact Sheet distribution	Fact Sheet of Plan Update posted at all Municipal Building and copies available for residents to pick up	OEM Coordinator, Municipal officials	
6/19/2014	Website update/social media	Posted up to date information on Mitigation Plan on municipal website and Face book page	OEM Coordinator, Web administrator	
7/16/2014	Fact Sheet distribution	Fact Sheet of Plan Update posted at all Municipal Building and copies available for residents to pick up	OEM Coordinator, Municipal officials	
8/18/2014	Borough Council /Public Meeting	To provide an update to the council and public on the hazard mitigation plan status, pending draft release along with handouts. Answer questions.	OEM Coordinator, Council members, Administration, residents	
9/15/2014	Borough Council /Public Meeting	To provide information on the hazard mitigation pending plan release and answer questions.	OEM Coordinator	

10/4/2014	Community/Public Event	Hand out flyers on the Mitigation plan update at the Oktoberfest festival, available for residents to pick up, discuss plan update with residents	OEM Coordinator, CERT members	
10/18/2014	Community/Public Event	Will distribute flyers on Mitigation Plan update during Shrewsbury Community Day, available for residents to pick up, discuss plan update with residents	OEM Coordinator, CERT members	
10/20/2014	Borough Council/Public Meeting	Provide update on Hazard Mitigation plan update, draft release for review on County website	OEM Coordinator, Council members, Administration, residents	
11/17/2014	Borough Council/Public Meeting	Provide update on Hazard Mitigation plan update, draft release for review on County website	OEM Coordinator, Council members, Administration, residents	
12/15/2014	Borough Council/Public Meeting	Provide update on Hazard Mitigation plan update, draft release for review on County website	OEM Coordinator, Council members, Administration, residents	

**Please add additional pages as needed and return via email by July 18, 2014 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.**



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: \_Shrewsbury Township\_1**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
8/14/12	Town Committee Meeting – Public Meeting	Handed out Mitigation Plan Update Fact Sheets. Discussed Planning process with Committee Members and gave plan update.	Emergency Management Township Officials
11/27/12	Town Committee meeting – Public Meeting	Discussed Mitigation Plan update – discussed new issues from Super Storm Sandy and how they would relate to mitigation, gave plan update.	Emergency Management Township Officials
3/12/13	Town Committee Meeting – Public Meeting	Took questions from public on Mitigation Planning Process discussed the plan and gave an update on planning.	Emergency Management Township Officials
6/11/13	Town Committee Meeting – Public Meeting	Gave update on hazard mitigation plan and discussed process with Committee and the public.	Emergency Management Township Officials

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: \_Shrewsbury Township\_2**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
7/25/13	Alfred Vail Mutual Assoc. HOA Meeting – Public Meeting	Handed out Mitigation Plan Fact Sheets. Discussed Mitigation Plan update process with largest group of home owners in the Township	Emergency Management Township Officials
8/13/13	Town Committee meeting – Public Meeting	Discussed Mitigation Plan update – Handed out updated Fact Sheets discussed planning with the public and town committee	Emergency Management Township Officials
2/14/14	Town Committee Meeting – Public Meeting	Took questions from public on Mitigation Planning Process discussed the plan and gave an update on planning.	Emergency Management Township Officials
5/13/14	Town Committee Meeting – Public Meeting	Discussed updates to township and county hazard mitigation plan	Emergency Management Township Officials

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: \_Shrewsbury Township\_3**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
7/8/14	Town Committee Meeting – Public Meeting	Discussed the wrap up of the hazard mitigation planning process with the township committee and public.	Emergency Management Township Officials
July 2014	Website updated	Linked Shrewsbury Township website to County hazard mitigation planning webpage	Emergency Management, IT
8/12/13	Town Committee meeting – Public Meeting	Discussed Mitigation Plan update – Handed out fact sheet, issues from MCOEM, discussed the plan finalization with the public and town committee.	Emergency Management Township Officials
9/9/14	Town Committee meeting – Public Meeting	Will discuss pending draft plan release, direct residents to County website for review	
10/14/14	Town Committee Meeting – Public Meeting	Planned meeting – discuss pending draft release of hazard mitigation plan, take questions and comments	Emergency Management Township Officials
11/12/14	Town Committee Meeting – Public Meeting	Planned meeting – discuss draft release of hazard mitigation plan, take questions and comments	Emergency Management Township Officials
12/9/14	Town Committee Meeting – Public Meeting	Planned meeting – discuss hazard mitigation plan take questions and comments	Emergency Management Township Officials

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION:  Borough Of Spring Lake Page1

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
8/12/12	Public Outreach	Hazard Mitigation Plan Update Fact Sheet distributed/posted at the Borough Building and Community Center	Emergency Management
8/14/12	Council/Public meeting	At Council meeting, Mayor updated residents concerning the dredging permits and final document for \$600,000 FEMA Grant. Hazard mitigation plan update discussed	Mayor and Council, Borough Engineer.
9/14/12	Council/Public meeting	At Council meeting, Council president update residents concerning hiring a consultant to assist in obtaining Grants for Spring Lake. Hazard mitigation plan update discussed, potential funding	Mayor and Council, Borough Manager.
11/12/12	Council/Public meeting	At Council Meeting, Mayor updated residents about the actions being taken to return the Borough after "Sandy". Hazard mitigation plan update discussed	Mayor and Council, Borough Manager, OEM Director, Police Dept..

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION:   Borough Of Spring Lake Page 2  

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
12/4/12	Chuhcil/Public Meeting	Mayor proposed \$4.0 million to pay for Sandy damage. Funds would be for replacement of the Boardwalk and the removal of storm debris. Discuss Progress made in connection with post-Sandy with a focus on Wreck Pond and Lake Como. Hazard mitigation plan update discussed	Mayor and Council, Borough Engineer, Borough Manager, Maintenance Director.
1/22/13	Council/Public Meeting	Mayor updated the residents on Hazard Mitigation Grants to help offset costs of elevating homes and to reduce the flood risks. Discussion of new base flood elevations. Hazard mitigation plan update discussed	Mayor and Council, Borough Engineer, Borough Manager, OEM Director.
1/31/13	Council/Public Meeting	Meeting to discuss the National Flood Insurance Program as well as the Advisory Base Flood elevations as it relates to the Borough residents.	Mayor and Council, Borough Engineer, Borough Manager, OEM Director, and representatives from FEMA.
2/14/13	Council/Public Meeting	Meeting to update the residents as to the progress on Lake Como. South Monmouth Regional Sewerage Authority (SMRSA). Hazard mitigation plan update discussed	Mayor and Council, SMRSA, Borough Engineer, Borough Manager.



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: Borough of Spring Lake Page3

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
2/26/13 thru 7/25/13	Chuhcil/Public Meeting	Mayor updated residents on various elevation grants that might be available to Borough residents. Also, updates on the Lake Como outflow pipe and the ongoing hazard mitigation plan update	Mayor and Council, Borough Manager, Borough Engineer, OEM director.
8/13/13	Public Meeting	The Borough Engineer, updated residents about the dredging of Wreck Pond. Dredging sediment could be deposited on the beach for dune construction.	Borough Engineer, Borough Manager, OEM Director.
8/27/13	Public meeting	Borough Engineer discussed with residents the need of building ramps over the existing dunes and the need/benefits of vegetation that grows on them.	Borough Engineer, Borough Manager.
8/24/13	Council/Public Meeting	Mayor discussed with the residents a "Interlocal Service Agreement for Lake Como Flooding Emergency Management" the need of this agreement in the management of Lake Como. Hazard mitigation plan update continuing.	Mayor and Council, Borough Manager, Borough Engineer.

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Borough of Spring Lake page 4 \_\_\_\_\_**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
10/8/13	Public meeting	Borough Engineer discussed with the residents the need of a "Sluice Gate" at Wreck Pond. Funding will be part of a FEMA Grant (75%) and how it would benefit the area.	Borough Engineer, Borough Manager
10/22/13	Council/public Meeting	Mayor discussed with the residents the need for an additional outflow pipe on Wreck Pond for a cost of \$4.5 million. The paid partially by a FEMA and other grants. Funding through the hazard mitigation plan a potential source.	Mayor and Council, Borough Engineer, Borough Manager, OEM Director.
11/1/13 thru 12/17/13	Public meeting	Borough Engineer updated the residents on the progress of installing the Sluice Gates on Wreck Pond.	Borough Engineer, Borough manager
1/23/14	Public meeting	Mr. Ruppel, Executive Director of SMRSA gave the residents an update as to the progress of installing the New Pump Station.	SMRSA, Borough Engineer, Borough Manager

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: Borough Of Spring Lake Page 5 \_\_\_\_\_

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
2/11/14	Public meeting	Borough Engineer updated residents of a meeting with the US Fish and Wildlife service and other agencies concerning the proposed bypass pipe for Wreck Pond.	Borough Engineer, Borough Manager, OEM Director
3/11/14	Council/public Meeting	Mayor updated the residents on the potential sale of 3 Borough owned building lots in which the proceeds would be used to help fund various aspects of Wreck Pond. Hazard mitigation plan update discussed, potential funding.	Mayor and Council, Borough Manager
4/8/14	Public meeting	Borough Engineer and Borough Manager updated the residents on the recent actions taken of getting the surrounding municipalities involved with the Wreck Pond project(s). Hazard mitigation plan update discussed.	Borough Engineer, Borough Manager.
5/27/14	Public meeting	Borough Manager discussed the progress of both projects- Wreck Pond and Lake Como activities.	Borough Manager

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Borough of Spring Lake Page 6** \_\_\_\_\_

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
7/14/14	Website Update	Link Spring Lake website to Monmouth County OEM website, hazard planning page in Emergency Management Section of Borough Website	Borough Manager, OEM Director
September Through December 2014	Council/Public meeting	At one meeting each month will notify residents of Hazard Mitigation Draft plan release, direct residents to the County website to review.	Mayor and Council, Borough Manager
September Through December 2014	Planning Board/Public meeting	At one meeting each month will notify residents of Hazard Mitigation Draft plan release, direct residents to the County website to review.	Planning Board
September Through December 2014	Website update	Will notify residents of pending and actual hazard mitigation draft plan release and direct residents to County website to review.	Borough Manager, OEM Director

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION:     Spring Lake Heights       1  

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
8/12/12	Public Outreach	Hazard mitigation Plan Update Fact Sheet distributed/phsted at all Borough Buildings and Offices including the Community Center	Emergency Management
Fall 2012	Website Update	Link to Monmouth County OEM website in Emergency Management Section of borough website	Borough Clerk
September 2012 - present	Monthly Public Meetings/Wreck Pond Stormwater Management Plan Committee	Discuss mitigation options to reduce flooding at Wreck Pond. At various meetings during this time the Hazard Mitigation Update and potential benefits for funding discussed. Pending and actual draft plan release will be mentioned in the coming months.	Monmouth County staff, Wall Township Environmental Committee municipal officials and resides from Wall, Spring Lake, Spring Lake Heights, and Sea Girt.
11/13/12	Public Meeting	Sandy Recovery discussion of bldg. elevation and buy outs of flood prone properties, <b>potential funding options</b> , <b>hazard mitigation plan</b>	Borough Clerk, Borough Engineer

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: Spring Lake Heights 2

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
11/26/12	Public Meeting	Sandy Recovery discussion of bldg. elevation and buy outs of flood prone properties, potential funding options , hazard mitigation plan	Borough Clerk, Borough Engineer
3/6/13	Public Meeting Fairway Mews Community	General Outreach, discussion of SS Sandy, Hazard Mitigation Plan Update discussed with residents of Fairway Mews	Emergency Management, Municipal Officials
3/7/13	Special Session Public Meeting	Advisory Base Flood Elevation Maps, the Hazard Mitigation Plan update and potential funding opportunities. Property elevation/acquisition through the Hazard Mitigation Grant Program, issues related to Flood Insurance Program changes	Borough Clerk, Borough Engineer, Emergency Management, Municipal Officials
3/25/13	Public Meeting	General Information on HMGP funding for residents and the Borough. Discussion regarding the Hazard Mitigation Plan update	Borough Clerk, Borough Engineer, Emergency Management, Municipal Officials

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** Spring Lake Heights 3

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
4/8/13	Public Outreach	Hazard mitigation Plan Update Fact Sheet distributed/posted at all Borough Buildings and Offices including the Community Center, copies available for residents to pick up	Emergency Management
7/22/13	Public Outreach	Hazard mitigation Plan Update Fact Sheet distributed/posted at all Borough Buildings and Offices, including the Community Center, copies available for residents to pick up	Emergency Management
10/15/13	Public Meeting	General Information as well as discussion about necessary mitigation issues in SLH. HMGP elevation program for residents and discussion on the Hazard Mitigation Plan update	Borough Clerk, Borough Engineer, Emergency Management, Municipal Officials
11/12/13	Public Outreach	Hazard mitigation Plan Update Fact Sheet distributed/posted at all Borough Buildings and Offices including the Community Center, copies available for residents to pick up	Emergency Management
3/10/14	Public Meeting	General Information, Borough updates, as well as discussion on the Hazard Mitigation Plan update	Borough Clerk, Borough Engineer, Emergency Management, Municipal Officials

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: Spring Lake Heights 4

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
7/21/14	Public Meeting Of Planning Board	Ordinance 2014-05 to review height increase for flood elevations for residents in flood zone	Borough Engineer, Deputy Borough Clerk
8/12/14	Public Outreach	Revised Monmouth County Monmouth County Multi-jurisdictional Hazard Mitigation Plan Update Fact Sheet displayed In Borough Hall, Community Center and on the borough website under News as well as Public Notices	Borough Clerk, OEM, Deputy Borough Clerk.
8/13/14	Public Outreach	Link on borough website to Monmouth County Hazard Mitigation Planning web page.	Borough Clerk, OEM
8/18/2014	Public Meeting	Hazard Mitigation Plan Update pending on agenda	Borough Clerk
8/20/14	Public Meeting Of Planning Board	Hazard Mitigation Plan Update pending on agenda	Deputy Borough Clerk/Planning Board secretary
9/8/14	Public Meeting	Hazard Mitigation Plan Update pending on agenda	Borough Clerk
9/17/14	Public Meeting Of Planning Board	Hazard Mitigation Plan Update pending on agenda	Deputy Borough Clerk/Planning Board secretary

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: \_\_\_ Spring Lake Heights \_\_\_ 5

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
Fall 2014	Specific Targeted Outreach	Outreach to private community Fairway Mews regarding publication of plan update in their newsletter	OEM, Fairway Mews General Manager.
9/22/14	Public Meeting	Hazard Mitigation Plan Update pending on agenda	Borough Clerk, Mayor and Council OEM
10/14/14	Public Meeting	Hazard Mitigation Plan Update pending on agenda	Borough Clerk, Mayor and Council OEM
10/15/14	Public Meeting Of Planning Board	Hazard Mitigation Plan Update pending on agenda	Deputy Borough Clerk/Planning Board secretary
11/10/14	Public Meeting	Hazard Mitigation Plan Update pending on agenda <b>Release</b> notification.	Borough Clerk, Mayor and Council OEM
11/13/14	Public Meeting Of Planning Board	Hazard Mitigation Plan Update pending on agenda <b>Release</b> notification.	Deputy Borough Clerk/Planning Board secretary
11/24/14	Public Meeting	Hazard Mitigation Plan Update pending on agenda <b>Release</b> notification.	Borough Clerk, Mayor and Council OEM
Late Fall 2014	Public Outreach	Update New Monmouth County Monmouth County Multi-jurisdictional Hazard Mitigation Plan <b>Release</b> Displayed In Borough Hall, Community Center and on the borough website under News as well as Public Notices	Borough Clerk, Deputy Borough Clerk.

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: Spring Lake Heights 6

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
12/8/14	Public Meeting	Hazard Mitigation Plan Update pending on agenda <b>Release</b> notification.	Borough Clerk, Mayor and Council OEM
12/17/14	Public Meeting Of Planning Board	Hazard Mitigation Plan Update pending on agenda <b>Release</b> notification.	Deputy Borough Clerk/Planning Board secretary
12/22/14	Public Meeting	Hazard Mitigation Plan Update pending on agenda <b>Release</b> notification.	Borough Clerk, Mayor and Council OEM

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: BOROUGH OF TINTON FALLS**

**Page 1 of 4**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
7//29/2012	PUBLIC OUTREACH HAZ-MIT PLAN MEETING PRESS RELEASE SHARED ON PUBLIC WEBSITE	MONMOUTH COUNTY PRESS REALEASE ABOUT HAZ-MIT MEETING WAS PLACE ON THE BOROUGH'S WEBSITE WITH LINKS INCLUDED TO FIND MORE INFORMATION	TINTON FALLS MAYOR, ADMINISTRATOR, ADMINISTRATIVE ANYLIST, I.T.DIRECTOR, OEM COORDINATOR, OEM DEPUTY COORDINATOR
08/01/2012	PUBLIC OUTREACH HAZ-MIT PLAN UPDATE INFO GIVEN TO HEALTH CARE FACILITIES	HAZ-MIT PLAN UPDATE INFORMATION PROVIDED TO EACH HEALTH CARE FACILITY WITHIN JURISTITION. OVERVIEW OF PLAN AND ITS PURPOSE GIVEN. COUNTY'S "TIP SHEET" SUPPLIED	TINTON FALLS OEM COORDINATOR, OEM DEPUTY COORDINATOR
08/01/2012	PUBLIC OUTREACH HAZ-MIT PLAN UPDATE INFO GIVEN TO TINTON FALLS BOARD OF FIRE COMMISSIONERS	HAZ-MIT PLAN UPDATE INFORMATION PROVIDED TO EACH FIRE DISTRICT WITHIN JURISTITION. OVERVIEW OF PLAN AND ITS PURPOSE GIVEN. COUNTY'S "TIP SHEET" SUPPLIED	TINTON FALLS OEM COORDINATOR, OEM DEPUTY COORDINATOR
08/29/2012	PUBLIC OUTREACH HAZ-MIT PLAN UPDATE INFO PROVIDED AT BOROUGH'S QTRLY OEM MEETING	HAZ-MIT PLAN UPDATE INFORMATION PROVIDED TO PUBLIC AND PRIVATE SCHOOL ADMINISTRATIONS WITHIN JURISTITION. OVERVIEW OF PLAN AND ITS PURPOSE GIVEN.	TINTON FALLS OEM COORDINATOR, OEM DEPUTY COORDINATOR
10/06/2012	PUBLIC OUTREACH HAZ-MIT PLAN UPDATE INFO PROVIDED AT BOROUGH'S COMMUNITY DAY	HAZ-MIT PLAN UPDATE INFORMATION PROVIDED TO PUBLIC ENTICED PUBLIC PARTICIPATION & PROVIDED INFO ON HOW TO SUBMIT PUBLIC COMMENTS, QUESTIONS AND FEEDBACK	TINTON FALLS MAYOR, BOROUGH COUNCIL MEMBERS, ADMINISTRATOR, OEM COORDINATOR, OEM DEPUTY COORDINATOR, CERT STAFF



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: BOROUGH OF TINTON FALLS**

**Page 2 of 4**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
06/05/2013	PUBLIC OUTREACH HAZ-MIT PLAN UPDATE INFO PLACED ON BOROUGH'S PUBLIC WEBSITE	HAZ-MIT UPDATE INFO PLACED ON WEBSITE, INFORMING PUBLIC AND ENCOURAGING COMMENT PARTICIPATION. ESTABLISHED A LINK TO COUNTY HAZ-MIT SITE ON BOROUGH'S PUBLIC WEBSITE	TINTON FALLS MAYOR, ADMINISTRATOR, ADMINISTRATIVE ANYLIST, I.T.DIRECTOR, OEM COORDINATOR, OEM DEPUTY COORDINATOR
06/05/2013	PUBLIC OUTREACH HAZ-MIT PLAN UPDATE INFO SENT TO BOROUGH RESIDENT AND BUSINESS RSS SUBSCRIBERS	HAZ-MIT UPDATE INFO SENT TO BOROUGH RESIDENT AND BUSINESS RSS SUBSCRIBERS, INFORMING PUBLIC AND ENCOURAGING COMMENT PARTICIPATION. LINK TO COUNTY HAZ-MIT SITE ALSO PROVIDED	TINTON FALLS MAYOR, ADMINISTRATOR, ADMINISTRATIVE ANYLIST, I.T.DIRECTOR, OEM COORDINATOR, OEM DEPUTY COORDINATOR
06/20/2013	PUBLIC OUTREACH PROFESSIONAL ENGINEER'S PRESENTATION AT PUBLIC BOROUGH COUNCIL MEETING	BOROUGH'S PROFESSIONAL ENGINEER PROVIDED PRESENTATION ON HAZ-MIT PLAN AND UPDATE PROCESS TO PUBLIC HIGHLIGHTING NEED & PURPOSE AS WELL AS THE NEED FOR PUBLIC PARTICIPATION AND THE PROCESS	TINTON FALLS MAYOR, BOROUGH COUNCIL MEMBERS, ADMINISTRATOR, BOROUGH ENGINEER, ADMINISTRATIVE ANYLIST, I.T.DIRECTOR, OEM COORDINATOR, OEM DEPUTY COORDINATOR
07/10/2013	PUBLIC OUTREACH HAZ-MIT PLAN UPDATE FACT SHEET POSTER AT EVERY BOROUGH DEPARTMENT OFFICE	THE HAZ-MIT PLAN UPDATE FACTSHEET POSTER POSTED AT EVERY BOROUGH OFFICE TO ENTICE PUBLIC PARTICIPATION WITH INFO ON HOW TO PROVIDE PUBLIC COMMENTS, QUESTIONS AND FEEDBACK	TINTON FALLS MAYOR, ADMINISTRATOR, BOROUGH DEPARTMENT SUPERVISORS, ADMINISTRATIVE ANYLIST, I.T.DIRECTOR, OEM COORDINATOR, OEM DEPUTY COORDINATOR
07/10/2013	PUBLIC OUTREACH HAZ-MIT PLAN UPDATE FACT SHEETS PROVIDED AT EACH BOROUGH DEPARTMENT OFFICE	HAZ-MIT PLAN UPDATE FACTSHEET PROVIDED FOR PUBLIC TO TAKE AT EACH BOROUGH OFFICE TO ENTICE PUBLIC PARTICIPATION WITH INFO ON HOW TO PROVIDE PUBLIC COMMENTS, QUESTIONS AND FEEDBACK	TINTON FALLS MAYOR, ADMINISTRATOR, BOROUGH DEPARTMENT SUPERVISORS, ADMINISTRATIVE ANYLIST, I.T.DIRECTOR, OEM COORDINATOR, OEM DEPUTY COORDINATOR



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: BOROUGH OF TINTON FALLS**

**Page 3 of 4**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
08/27/2013	PUBLIC OUTREACH HAZ-MIT PLAN UPDATE INFO PROVIDED AT BOROUGH'S NEIGHBORHOOD WATCH MEETING	HAZ-MIT PLAN UPDATE FACTSHEET PROVIDED TO PUBLIC ENTICED PUBLIC PARTICIPATION & PROVIDED INFO ON HOW TO SUBMIT PUBLIC COMMENTS, QUESTIONS AND FEEDBACK	TINTON FALLS POLICE DEPARTMENT, OEM DEPUTY COORDINATOR
10/05/2013	PUBLIC OUTREACH HAZ-MIT PLAN UPDATE INFO PROVIDED AT BOROUGH'S COMMUNITY DAY	HAZ-MIT PLAN UPDATE FACTSHEET PROVIDED TO PUBLIC ENTICED PUBLIC PARTICIPATION & PROVIDED INFO ON HOW TO SUBMIT PUBLIC COMMENTS, QUESTIONS AND FEEDBACK	TINTON FALLS MAYOR, BOROUGH COUNCIL MEMBERS, ADMINISTRATOR, OEM COORDINATOR, OEM DEPUTY COORDINATOR, CERT STAFF
01/16/2014	PUBLIC OUTREACH HAZ-MIT PLAN UPDATE FACT SHEET POSTER AT BOROUGH'S PUBLIC LIBRARY	THE HAZ-MIT PLAN UPDATE FACTSHEET POSTER POSTED AT BOROUGH'S PUBLIC LIBRARY TO ENTICE PUBLIC PARTICIPATION WITH INFO ON HOW TO PROVIDE PUBLIC COMMENTS, QUESTIONS AND FEEDBACK	TINTON FALLS OEM COORDINATOR, OEM DEPUTY COORDINATOR
01/16/2014	PUBLIC OUTREACH HAZ-MIT PLAN UPDATE FACT SHEETS PROVIDED AT BOROUGH'S PUBLIC LIBRARY	HAZ-MIT PLAN UPDATE FACTSHEET PROVIDED FOR PUBLIC TO TAKE AT BOROUGH'S PUBLIC LIBRARY TO ENTICE PUBLIC PARTICIPATION WITH INFO ON HOW TO PROVIDE PUBLIC COMMENTS, QUESTIONS AND FEEDBACK	TINTON FALLS OEM COORDINATOR, OEM DEPUTY COORDINATOR
1/29/2014	PUBLIC OUTREACH HAZ-MIT PLAN UPDATE PRESENTATION AT BOROUGH OEM//LEPC PUBLIC MEETING	BOROUGH'S OEM STAFF GAVE PRESENTATION ON HAZ-MIT PLAN & UPDATE PROCESS DURING THE PUBLIC MEETING HIGHLIGHTING NEED & PURPOSE AS WELL AS THE NEED FOR PUBLIC PARTICIPATION AND THE PROCESS	TINTON FALLS OEM COORDINATOR, OEM DEPUTY COORDINATOR



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: BOROUGH OF TINTON FALLS**

**Page 4 of 4**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
08/13/2014	PUBLIC OUTREACH HAZ-MIT PLAN UPDATE NOTICE RELEASED BY COUNTY PLACED ON BOROUGH'S PUBLIC WEBSITE	HAZ-MIT PLAN UPDATE NOTICE PROVIDED BY COUNTY OEM TO PLACED ON WEBSITE, INFORMING PUBLIC OF THE UPCOMMING RELEASE OF THE DRAFT AND LINK TO REVIEW	TINTON FALLS MAYOR, ADMINISTRATOR, ADMINISTRATIVE ANYLIST, I.T.DIRECTOR, OEM COORDINATOR, OEM DEPUTY COORDINATOR
08/13/2014	PUBLIC OUTREACH HAZ-MIT PLAN UPDATE NOTICE RELEASED BY COUNTY PLACED ON BOROUGH'S PUBLIC WEBSITE	HAZ-MIT PLAN UPDATE NOTICE PROVIDED BY COUNTY OEM SENT TO BOROUGH RESIDENT AND BUSINESS RSS SUBSCRIBERS, , INFORMING PUBLIC OF THE UPCOMMING RELEASE OF THE DRAFT AND LINK TO REVIEW	TINTON FALLS MAYOR, ADMINISTRATOR, ADMINISTRATIVE ANYLIST, I.T.DIRECTOR, OEM COORDINATOR, OEM DEPUTY COORDINATOR
AUGUST THROUGH DECEMBER 2014	PUBLIC OUTREACH PRESENTATION OF FINAL DRAFT HAZ-MIT PLAN UPDATE AT BOROUGH COUNCIL PUBLIC MEETING	PRESENTATION OF PENDING AND ACTUAL DRAFT RELEASE AS WELL AS FEMA APPROVAL OF HAZ-MIT PLAN UPDATE TO BE GIVEN TO THE PUBLIC DURING BOROUGH COUNCIL PUBLIC MEETING	TINTON FALLS MAYOR, ADMINISTRATOR, BOROUGH COUNCIL MEMBERS, ADMINISTRATIVE ANYLIST, I.T.DIRECTOR, OEM COORDINATOR, OEM DEPUTY COORDINATOR
AUGUST THROUGH DECEMBER 2014	PUBLIC OUTREACH PRESENTATION OF FINAL DRAFT HAZ-MIT PLAN UPDATE AT PLANNING BOARD PUBLIC MEETING	PRESENTATION OF PENDING AND ACTUAL DRAFT PLAN RELEASE AS WELL AS FEMA APPROVAL OF FINAL HAZ-MIT PLAN UPDATE TO BE GIVEN TO THE PUBLIC DURING PLANNING BOARD PUBLIC MEETING	TINTON FALLS MAYOR, ADMINISTRATOR, PLANNING BOARD MEMBERS, ADMINISTRATIVE ANYLIST, I.T.DIRECTOR, OEM COORDINATOR, OEM DEPUTY COORDINATOR
AUGUST THROUGH DECEMBER 2014	PUBLIC OUTREACH HAZ-MIT PLAN UPDATE DRAFT PLAN NOTIFICATION PRESS RELEASE TO ALL MEDIA	THE HAZ-MIT PLAN DRAFT NOTIFICATION WILL BE RELEASED TO ALL LOCAL MEDIA, INCLUDING PRINT, LOCAL WEB NEWS, AS WELL AS THE BOROUGH'S FACEBOOK AND TWITTER	TINTON FALLS MAYOR, BOROUGH COUNCIL MEMBERS, ADMINISTRATOR, BOROUGH ENGINEER, ADMINISTRATIVE ANYLIST, I.T.DIRECTOR, OEM COORDINATOR, OEM DEPUTY COORDINATOR, OEM P.I.O



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** UNION BEACH BOROUGH

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
July 2012	Posted on Borough Website under Emergency Management – the link to the mitigation plan	A link to the MCSO OEM website provide in Emergency Management section on the Borough website	Emergency Management – Mike Harriot Coordinator
July 19, 2012	Union Beach Council Meeting – open to public	Introduction of Hazard Mitigation Plan on Agenda & Notification of Meeting held on July 31, 2012	Mayor and Council Emergency Management – Mike Harriot Coordinator
March 2014	Displayed fact sheets and press release on municipal bulletin boards	Display fact sheet and listed projects posted on our Municipal Bulletin Board. Displayed county press release that pertained to the Mitigation Plan on Bulletin Board in Borough Hall	Emergency Management – Mike Harriot Coordinator
May 22, 2013	Bayshore Emergency Management Association Public Meeting for Hazard Mitigation Plan Update	Panel discussion, questions answered from public, Fact Sheet distributed	BEMA, OEM Coordinator, OEM Deputy Coordinator
June 20, 2013	Union Beach Council Meeting – open to public	Hazard Mitigation Plan on Agenda & Recap of Bayshore Emergency Management Association Public Meeting for Hazard Mitigation Plan Update	Mayor and Council Emergency Management – Mike Harriot Coordinator

August 6, 2013	Union Beach National Night Out	Distributed Fact Sheets	Emergency Management – Mike Harriot Coordinator
April 2014	Borough's quarterly newsletter – Spring 2014	2014 Flood Protection Information from information in the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Newsletter is also hung on bulletin board in Borough Hall	Emergency Management – Mike Harriot Coordinator
April 17, 2014	Strategic Recovery Planning Report (SRPR) on website	Published Strategic Recovery Planning Report on Borough's website – which includes an outline of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update	T&M Associates – Dennis Dayback Mayor and Council
August 5, 2014	Union Beach National Night Out	Distributed Fact Sheets	Emergency Management – Mike Harriot Coordinator
September 2014	Placing article in Borough's quarterly newsletter outlining MCSO OEM Mitigation Plan	Display county press release that pertained to the Mitigation Plan article in Borough quarterly newsletter Newsletter is also hung on bulletin board in Borough Hall	Emergency Management – Mike Harriot Coordinator
September 2014	Union Beach Planning Board Meeting – open to public	Hazard Mitigation Plan on Agenda	T&M Associates – Dennis Dayback Mayor and Council Emergency Management – Mike Harriot Coordinator
October 2014	Union Beach Council Meeting – open to public	Hazard Mitigation Plan on Agenda	T&M Associates – Dennis Dayback Mayor and Council Emergency Management – Mike Harriot Coordinator

**Please add additional pages as needed and return via email by July 18, 2014 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.**



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: UPPER FREEHOLD TOWNSHIP**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
Aug. 8, 2012	Announcement of meeting held by Monmouth County to hold hazard mitigation plan meeting on June 29, 2012	Announced plan update process. Posted in UFT Municipal Building #1 and on UFT OEM FaceBook site	OEM Coordinator
October 24, 2012	Repost announcement requesting residents to participate in online survey (October 17, 2012)	Posted in UFT Municipal Building #1 and on UFT OEM FaceBook site sent email & text notifications using EverBridge Community Notification System	OEM Coordinator
January 23, 2013	Repost- Announcement of meeting held by Monmouth County to hold hazard mitigation plan meeting on June 29, 2012	Posted in UFT Municipal Building #1 and on UFT OEM FaceBook site	OEM Coordinator
July 8, 2013	Repost- Announcement of Monmouth County to continue work on all natural hazard mitigation Plan (June 25, 2013)	Posted in UFT Municipal Building #1 and on UFT OEM FaceBook site	OEM Coordinator

***Please add additional pages as needed and return via email by July 18, 2014 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.***



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

#### PARTICIPATING JURISDICTION: UPPER FREEHOLD TOWNSHIP

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
March 28, 2014	Repost- Announcement of MCSO OEM to continue hazard mitigation plan update process (March 3, 2014)	Posted on UFT OEM FaceBook site	OEM Coordinator
July 8, 2013	Repost- Announcement of Monmouth County to continue work on all natural hazard mitigation Plan (June 25, 2013)	Posted on UFT OEM FaceBook site	OEM Coordinator
July 18, 2014	Posted- Fact Sheet: Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update	Posted on UFT OEM FaceBook site	OEM Coordinator

***Please add additional pages as needed and return via email by July 18, 2014 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.***



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Township of Wall (1)**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
8/28/2012	Website	Updated website: Linked WTPD to MC OEM Sheriff's Office Hazard Mitigation Planning page	Emergency Management
8/28/2012	Fact Sheet	Municipal Buildings: Fact sheet distributed/posted throughout municipal buildings and library, copies available for residents to pick up	Emergency Management
09/22/2012	Community Event/Public outreach	Kids Day America: Fact sheet distributed to general public, Hazard Mitigation Plan update discussed with any/all interested residents	Emergency Management
10/17/2012	Press Release posted on Municipal Website and Wall OEM Website	Wall Township residents were asked to participate in Hazard Mitigation Survey for the MC Hazard Mitigation Plan update.	Emergency Management

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Township of Wall (2)**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
4/13/2013	Fact Sheet	Municipal Buildings: Fact sheet distributed/posted throughout municipal buildings and library, copies available for residents to pick up	Emergency Management
June 2013	Community Event/Public outreach	Wall Fair: Fact sheet distributed to general public, Hazard mitigation Plan Update discussed with any/all interested residents.	Emergency Management
June 29, 2013	Email notification	Mitigation Plan Fact Sheet emailed to members of the LEPC and various stakeholders	Emergency Management
7/4/2013	Community Event/Public outreach	Firecracker 5: Fact sheet distributed to general public, discussed the Hazard Mitigation Plan Update with any/all interested residents.	Emergency Management

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Township of Wall (3)**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
Sept 2012-present	Monthly Public Stakeholder Meetings/Wreck Pond Stormwater Management Plan committee  (Ongoing)	Discuss mitigation options to reduce flooding at Wreck Pond. At various meetings during this timeframe the Hazard Mitigation Update and potential benefits for funding discussed. Pending and actual draft plan release will be mentioned at upcoming meetings, as well as final FEMA approval.	Monmouth County staff, Emergency Management, Wall Township Environmental Committee, municipal officials and residents from Wall, Spring Lake, Spring Lake Heights and Sea Girt
October 2013	Community Event/Public outreach	Kids Day America: Fact sheet distributed to general public, hazard mitigation plan update discussed with any/all interested residents.	Emergency Management
January 2014	Fact Sheet	Municipal Buildings: Fact sheet distributed/posted throughout municipal buildings and library, copies available for residents to pick up	Emergency Management
June 2014	Community Event/Public outreach	Wall Fair: Fact sheet distributed to general public, hazard mitigation plan update discussed with any/all interested residents.	Emergency Management

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: Township of Wall (4)**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
7/4/2014	Community Event/Public outreach	Firecracker 5: Fact sheet distributed to general public, hazard mitigation plan update discussed with any/all interested residents.	Emergency Management
July 2014	Fact Sheet	Fact sheet posted to both the Police Department Website and the Wall Township Website	Emergency Management
July 2014	Fact Sheet	Fact sheet posted to Police Department Social Media (Facebook & Twitter)	Emergency Management
Sept/Oct/Nov 2014	Draft Plan review for public comment	Notification to residents of Draft plan posted for review: Police Website & Social Media & Township Website	Emergency Management
Sept/Oct/Nov 2014	Public Council Meeting(s)	Notification of Draft Plan, pending and actual, release at Council meetings, residents directed to website to review.	Emergency Management Wall Twp Council

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## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: West Long Branch #1

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
7/11/12	Public Notice	Monmouth County OEM advised FEMA has funded Multi-Jurisdictional Hazard Mitigation Plan, County Press Release distributed	Borough Clerk
7/11/12	Council Meeting/Public Meeting	Authorization for West Long Branch participate in the update of the Multijurisdictional Hazard Mitigation Plan	Mayor & Council
July 2012	Fact Sheet Distributed	Monmouth County Mitigation Plan Update Fact Sheet posted in Borough Hall, copies available for residents to take home.	OEM Coordinator/Borough Clerk
9/5/12	Council Meeting/Public Meeting	Contract awarded for Franklin Lake Shoreline Erosion Control, Hazard Mitigation plan discussed	Mayor & Council

**Please add additional pages as needed and return via email by July 18, 2014 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.**



**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** West Long Branch # 2

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
10/17/12	Council Meeting/Public Meeting	Discussion on replacement of existing drainage and storm water pipe system adjacent to Franklin Lake Park, hazard mitigation plan discussed	Borough Engineer Mayor & Council
May 2013	Fact Sheet Distributed	Monmouth County Mitigation Plan Update Fact Sheet posted in Borough Hall, copies available for residents to take home.	OEM Coordinator/ Borough Clerk
June 2013	Mitigation Meeting	Discuss update of hazard mitigation plan, required documents to be completed, ongoing process	Administrator/ Borough Engineer

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION: West Long Branch # 3**

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
July 2013	Fact Sheet Distributed	Posted Fact Sheet Update in Borough Hall, copies available for residents to take home	Administrator
October 2013	Mitigation Meeting	Review hazard mitigation plan status, ongoing update process	OEM Coordinator/Administrator
January 2014	Fact Sheet Distributed	Posted Fact Sheet Update in Borough Hall, copies available for residents to take home	Administrator
March 2014	Mitigation Meeting	Review hazard mitigation plan status, planning process ongoing	OEM Coordinator/Administrator/ Borough Engineer

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**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update**

**OUTREACH LOG:**

*Summary of Outreach Activities to the General Public and Other Stakeholders*

**PARTICIPATING JURISDICTION:** West Long Branch # 4

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
4/7/14	Mitigatinn Meeting Open to Public	Attended regional storm water management plan kick off meeting re: Whalepond Brook Watershed Hazard mitigation plan discussed re: potential funding sources	Administrator, Borough Engineer Ocean Township, Long Branch, Eatontown, Rutgers University Representatives, Monmouth University, members of public.
4/8/14	After Action Meeting	Issued a status report to Mayor & Council advising of kick off meeting and meeting agenda and objectives	Administrator
8/6/14	Council Meeting/ Public Meeting	Provided an update on status of multi-jurisdictional mitigation plan. Summarized public outreach activities	Administrator
8/6/14	Fact Sheet Distributed	Provided updated Fact Sheet to local media covering West Long Branch events	Administrator

**Please add additional pages as needed and return via email by July 18, 2014 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.**



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

PARTICIPATING JURISDICTION: West Long Branch # 5

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
8/6/14	Website Updated	Posted website link on Borough Website to Monmouth County Sheriff's Office, OEM, hazard planning page	Administrator
September through December 2014	Council Meeting/ Public Meeting	At one meeting each month, discuss pending or actual release of the draft hazard mitigation plan, direct residents to the website to review	Administrator
October through December 2014	Website update	Post notification of draft hazard mitigation plan release for residents to review	Administrator/OEM Coordinator
October/November/ December 2014	Stakeholder Meeting	Discuss hazard mitigation plan with municipal departments, review draft plan when available, prepare for resolution to adopt the updated plan once approved by FEMA	Administrator/ Department Heads

**Please add additional pages as needed and return via email by July 18, 2014 to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com). For questions, please call 973-883-8500.**

**APPENDIX 1.11 –  
COUNTY PRESS RELEASES AND ARTICLES IN LOCAL NEWS MEDIA**

- [Sheriff](#)
- [Law Enforcement](#)
- [Corrections](#)
- [Communications](#)
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- [Kids Internet & Links](#)
- [Kids 9-1-1](#)
- [Safety Tips](#)
- [Employment](#)
- [Most Wanted](#)
- [Sex Offenders Watch](#)
- [Monmouth County Website](#)
- [Sheriffs' Assn. of NJ Website](#)

## Press Releases

### 06/29/2012 - MONMOUTH COUNTY TO HOLD HAZARD MITIGATION PLAN MEETING

Monmouth County is in the process of updating its 2009 Multi Jurisdictional Natural Hazard Mitigation Plan after receiving grant funding from the Federal Emergency Management Agency (FEMA).

The Multi-Jurisdictional Natural Hazard Mitigation Plan is a documented evaluation of the hazards to which a community is susceptible and the extent to which these events will occur. The plans identify an area's vulnerability to the effects of natural hazards and the goals, objectives and actions required to minimize future loss of life and property damage. "Hazard mitigation measures are taken today so communities are more protected tomorrow," said Michael Oppegaard, Coordinator of the Monmouth County Office of Emergency Management. "By gathering the data from previous natural disasters, and applying it to what kind of impact a future event would have, helps create a safer and more sustainable community."

The Multi-Jurisdictional Natural Hazard Mitigation Plan for Monmouth County was initially prepared to meet the requirements of the Disaster Mitigation Act of 2000 (DMA 2000). The Act requires all states and local governments to have mitigation plans in place in order to be eligible to apply for certain types of federal disaster mitigation project funding.

In 2009, Monmouth County and its jurisdictions successfully participated in the process and ultimately adopted the plan. After a plan is approved by FEMA, each of its participating jurisdictions must work to implement the hazard mitigation actions that they outlined in their respective mitigation strategies, and participate in a process to update the plan every five years. Monmouth County continues its 'multi-jurisdictional' approach by inviting all of the municipalities within the County to continue to participate in this important endeavor. A project kickoff meeting with Monmouth County and participating municipalities will be held on July 31, 2012.

For more information please contact Michael E. Oppegaard, Coordinator, Monmouth County Sheriff's Office, Office of Emergency Management (phone: 732-431-7400; e-mail: moppegaard@mcsonj.org) or Deputy Coordinator, Margaret Murnane-Brooks (phone: 732-431-7400; e-mail: mmurnane@mcsonj.org). Additionally, a Multi-Jurisdictional Hazard Mitigation Planning Page is on the web site at: [www.monmouthsheriff.org](http://www.monmouthsheriff.org) , OEM link.

"We cannot prevent natural disasters from happening," said Sheriff Shaun Golden. "That's why the continued efforts of a hazard mitigation plan are critical. It will reduce the impact associated with natural hazard events and help maintain public safety throughout Monmouth County."

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#### Events Calendar

##### July 2012

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

#### Coming Events

- [07/12/12 - Child Safety Seat Checkpoint](#)
- [07/16/12 - Foreclosure Sales Auction](#)
- [07/23/12 - Foreclosure Sales Auction](#)
- [07/30/12 - Foreclosure Sales Auction](#)
- [08/6/12 - Foreclosure Sales Auction](#)

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#### Most Wanted



Edward Santana

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[Click Here For Law Enforcement Magazine Articles/Websites](#)

monmouthsheriff.org | http://wobm.com/monmouth-county-starts-updates-to-natural-hazard-mitigation-plan/

monmouth county hazard mitigation plan update

**92.7 WOBM** OCEAN COUNTY'S HOMETOWN STATION

HOME ON-AIR LISTEN FEATURES NEWS EVENTS LISTENER CLUB MEDIA CONTACT

WHAT'S HOT LAST PLAYED FREE LUNCH HOMETOWN VIEW O.C. PARANORMAL LOCAL EXPERTS HOMERUNS FOR HEROES

## Monmouth County Starts Updates To Natural Hazard Mitigation Plan

By [Iyo Herlin](#) | 2 days ago



Photo Courtesy of NAGA

If a natural disaster happens, Monmouth County wants to make sure barriers are already in place.

The County will be holding a meeting on Tuesday for its Multi-Jurisdictional Natural Hazard Mitigation Plan. The plan, which was last updated in 2009, evaluates the hazards which a community is susceptible to and plans appropriate methods for mitigation.

Michael Oppegaard, Coordinator for the Monmouth County Sheriff's Office with the Office of Emergency Management says the plan identifies the hazards that residents would be exposed to, and it tries to identify some of the mitigation actions to lessen the impact.

"In essence this plan would us identify some of the actions that we may take and apply for funding through the FEMA programs to acquire properties that are in this repetitive loss program if they've had multiple flood claims, properties that may want to be elevated because their yards flood, putting in larger storm drains, and things like that."

Director Oppegaard says that for Monmouth County it means looking at natural disaster like hurricanes, flooding, and snowstorms, however there will be new topics added this year.

"We are looking at some new topics this round, such as the effects of climate change on the natural hazards we're affected by."

Once the planning process is complete the drafts are sent to the State Mitigation Unit for Approval by FEMA.

Oppegaard says all 53 of Monmouth County's municipalities have a say in the plan.

"What happens is that under the Disaster Mitigation Act of 2000, every jurisdiction in the state is required to have a mitigation plan. So by us doing a multi jurisdictional plan, we better use the federal dollars that are given out to better build this plan."

start | Inbox - arina.foley@... | Monmouth County St... | Press | monmouthsheriff.org... | Search Desktop | 1:50 PM

7/30/12

Mommouth County Municipalities Begin Natural Hazard Mitigation Plan [AUDIO] - Windows Internet Explorer

http://nj1015.com/mommouth-county-municipalities-begin-natural-hazard-mitigation-plan-audio/

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msn User Authentication Mommouth County Muni...

**NEW JERSEY 101.5** PROUD TO BE NEW JERSEY

HOME HOSTS LISTEN NEWS WEATHER TRAFFIC PRIZE CLUB PRO

WHAT'S HOT: TEENS + TECHNOLOGY 2012 SUMMER GAMES BACK TO SCHOOL WEIRD NEWS NJ BEACHES DAY TR

## Mommouth County Municipalities Begin Natural Hazard Mitigation Plan [AUDIO]

By Ilya Hemlin | 2 weeks ago

Fifty three towns within **Monmouth County** are all collaborating simultaneously to create this year's Multi-Jurisdictional Natural Hazard Mitigation Plan.



Damage from Hurricane Irene (Flickr User emilydickinsonridesabmx)

Damage from Hurricane Irene (Flickr User emilydickinsonridesabmx)

The plan, which was last updated in 2009, sets up the what actions municipalities county can take in order to safeguard themselves against a plethora of hazards from hurricanes to inland flooding. The final draft of the plan is approved by FEMA which uses the strategy to dole out funding for the various projects.

The kickoff meeting for the 2012 plan started Tuesday July 31 st at the Monmouth County Fire Academy, where County Office of Emergency Management Director Michael Oppengaard briefed the dozens of municipalities in attendance.

With over fifty different municipalities participating in the plan, in addition to the County needing to establish its protocols, one of the main issues lies in creating a system in which the suggestions can be submitted.

Like in 2009, the county is hiring a third party contractor to create a web portal, which participants can then submit their information to, and a draft of the plan will be compiled for review by the County, then the state, before ultimately getting to the desk of FEMA.

*"As we continue to go along we will be reviewing all that stuff so we don't have to read this giant three size phone book plan at the end so we'll have that all done," says Oppengaard.*

Under the Disaster Mitigation Act of 2000, every jurisdiction in the state is required to have a mitigation plan, however Monmouth County's decision to do the plan in a multi jurisdictional fashion, rather than let every municipality submit its own plan to the state, is a decision that sacrifices ease for a larger ultimate payout from FEMA.

"Doing it in a multi jurisdictional way] does add a little more to the workload upfront and then for us," acknowledges Oppengaard, "but with the dollars and cents that are out there and the money that we got for this as we did in the last round, it just makes better sense to do it that way."

Neptune Township CFO and OEM coordinator Michael Bascom spoke during the presentation on Tuesday, talking about the success Neptune had with the some of the mitigation projects in the past thanks to the plan.

The city constructed bulk heads and flood valves at the entrance of outflow pipes at the Shark River section, which helped reduce flooding which plagued them roughly thirty days out of the year.

The 675,000 dollar project had 508,000 funded by FEMA grants, and Bascom notes even though it's not a hundred percent complete, there's still noticeable improvements.

"It's greatly reduced flooding in that area already."

Bascom says while the County's plan encompasses all of the municipalities, Neptune, like every other municipality has to consider their own natural hazards when submitting their portion.

So what is on Neptune's list of concerns?

"Flooding is the number one problem." Says Bascom "Flooding is a repetitious problem, we're a community that's surrounded on multiple sides by water, the Atlantic Ocean, shark river, and we have multiple lakes."

Once the final draft of the plan is complete, it will be open to the public for review.

start Mommouth County M... Inbox - anna.foley@... Document1 - Microsof...



**SHAUN GOLDEN/SHERIFF**

[www.monmouthsheriff.org](http://www.monmouthsheriff.org)

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## **NEWS RELEASE**

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FOR IMMEDIATE RELEASE:  
October 15, 2012

CONTACT: CYNTHIA SCOTT, PIO  
PHONE: 732.577.6613

### **RESIDENTS BEING ASKED TO PARTICIPATE IN ONLINE SURVEY THAT WILL HELP WHEN DEALING WITH NATURAL HAZARDS**

Has your home ever been flooded? Or have you been affected by any other type of natural disaster? Monmouth County residents can now learn more about a comprehensive all natural hazards-mitigation plan for the county and its 53 municipalities, and, complete an online citizen questionnaire at [www.monmouthsheriff.org](http://www.monmouthsheriff.org).

Through a grant, provided by the Federal Emergency Management Agency (FEMA), the Board of Chosen Freeholders contracted with URS Corp. Inc. of Clifton, N.J., to work with county emergency management staff and municipal representatives to update the All Natural Hazards Mitigation Plan. The plan is a documented evaluation of the hazards to which a community is susceptible and the extent to which these events will occur.

Background information about the plan is available on the sheriff's website, and residents are being encouraged to complete the online survey that will help a study team better assess the nature, extent and probability of various hazards in Monmouth County.

The 15-question survey will take five minutes to complete.

*(con't)*

## **RESIDENTS BEING ASKED TO PARTICIPATE IN ONLINE SURVEY THAT WILL HELP WHEN DEALING WITH NATURAL HAZARDS**

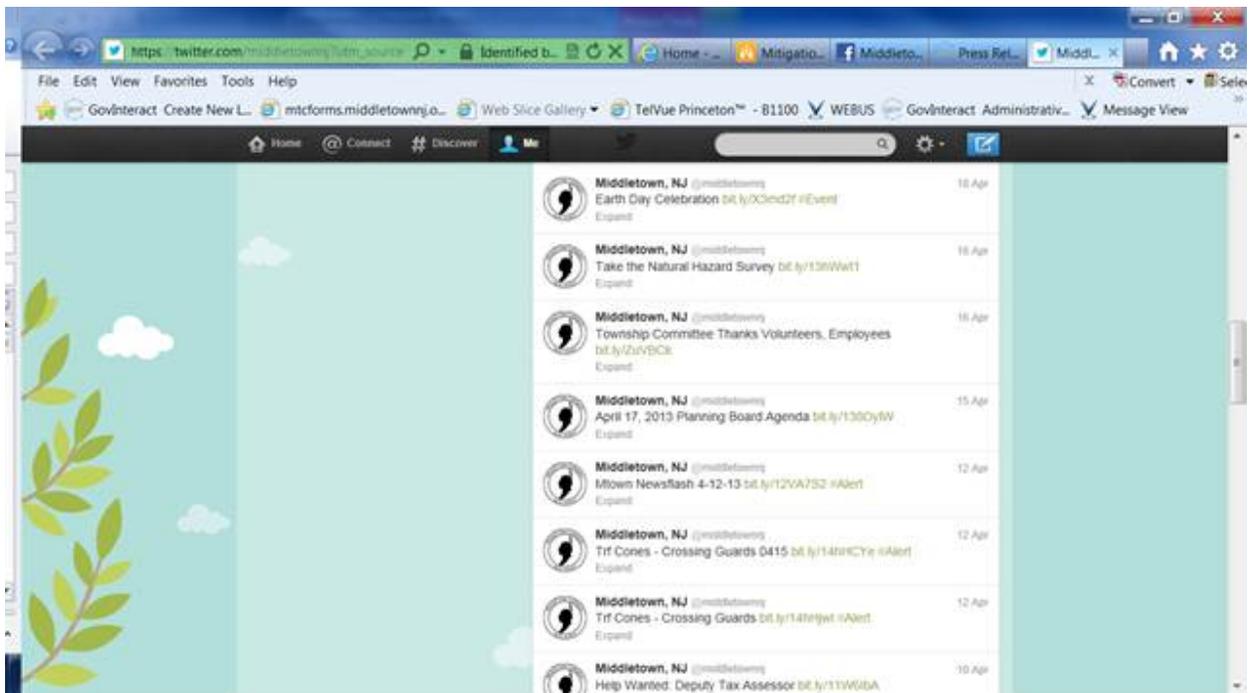
The goal of the plan is to identify projects that can reduce damages from future natural hazards. The plan will include a risk assessment and a hazard-mitigation strategy.

The primary hazard in Monmouth County is flooding, but other potential hazards to be analyzed include drought, extreme cold, extreme heat, snow, ice, hail, windstorms Nor'Easters, Hurricanes, tropical storms and tornadoes, among others.

For more information visit [www.monmouthsheriff.org](http://www.monmouthsheriff.org)

###

*Middletown Facebook and Twitter posts; clearer copies have been requested but were not received at the time of the Draft.*





Animal Control & Licensing

Boards and Commissions

Brush and Leaves

Budget

Building & Inspection

Community

Employment

Garbage Collection

Health

History

Library

Meetings

Middletown 350

Middletown Arts Center (MAC)

Public Safety

Recreation

Recycling

Schools

### Take the Natural Hazard Survey

Results Used to Update All-Natural Hazard Mitigation Plan  
Monmouth County posted: April 16, 2013  
Emergency Management  
Office #: (732)431-7310

Has your home ever been flooded? Or have you been affected by any other type of natural disaster? Monmouth County residents can now learn more about a comprehensive all natural hazards-mitigation plan for the county and its 53 municipalities, and, **complete an online citizen questionnaire at [www.monmouthsheriff.org](http://www.monmouthsheriff.org)**.

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Middletown Township is participating in this update along with other municipalities.

Background information about the plan is available on the sheriff's website, and residents are being encouraged to complete the online survey that will help a study team better assess the nature, extent and probability of various hazards in Monmouth County. The 15-question survey will take five minutes to complete.

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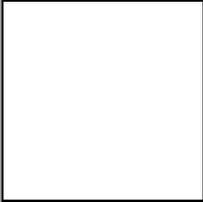
For more information visit [www.monmouthsheriff.org](http://www.monmouthsheriff.org)



### Sandy Recovery Information



**From:** middletownnj@govi.us [mailto:middletownnj@govi.us]  
**Sent:** Friday, April 19, 2013 5:23 PM  
**To:** Herrschaft, Cindy  
**Subject:** Mtown Newsflash 4-19-13

	<p>You're receiving this email because you signed up to receive alerts from Middletown, NJ. Having trouble reading this email? <a href="#">View it in your browser.</a> To change your preferences <a href="#">Click Here.</a></p>
<b>Mtown Newsflash 4-19-13</b>	
<b>Summer Recreation Program Registration Now Online!</b>	

participants to register online with our NEW program. This is a new, user-friendly program designed to make registering for all Recreation programs quick and easy.

For those participants interested in registering for our Inclusion Program, please register online for the program titled "Summer Inclusion Program". We are requesting all parents fill out an Inclusion Profile for their child to better assist our staff and ensure their child's success in the program. Final admittance into this program is based on review of the application and Inclusion Profile. For more information, please contact the Recreation Administrative Office at 732-615-2260.

- <https://register.communitypass.net/Middletown>

Registration will be accepted in person starting Monday, April 29. Please call the Recreation Office at 732-615-2260 to find out where to register in person. Registration forms may be downloaded from the website under Forms and Resources

- Summer Recreation 2013 – Camp Weeks and Schedules
- Downloadable Registration Form

### **Earth Day Celebration April 20**

Green activities abound as part of Middletown's Earth Day on Saturday, April 20. Start the day by helping at one of three township parks from 10 am to 2pm. Volunteers are needed to help with trail maintenance at the Coe Property located at 89 Sleep Hollow Road; trail mapping and establishment at the Campo Property located near Cottage Gate, Rt 36 southbound and for park pick-up at the Lincroft Village Green on Newman Springs Road. Closed toed shoes are required. Bug spray, bottled water and gloves are suggested.

Head over to Porcey Park, 345 Oak Hill Road from 4:00 pm to 7:00 pm for an afternoon of fun, games and education. The afternoon will include a musical performance by Miss Sherri featuring Go Go Green; gardening tips and money-saving hints provided by Rutgers' New Jersey Agricultural Experiment Station; native garden plant identification; the Follow a Drop of Water Workshop & Hike; a recycled arts and crafts display and workshop; and recycled

be collected at the event include electronics and crayons.

This special day is hosted by the Middletown Recreation Department, Middletown Cultural and Arts Council and the Poricy Park Conservancy. Visit [www.middletownnj.org](http://www.middletownnj.org), [middletownarts.org](http://middletownarts.org), or [poricypark.org](http://poricypark.org) or call 732-615-2260 for more information.

**Daddy-Daughter Dance - Friday, April 26**  
**In-Person Registration Deadline: Monday, April 22**  
**Online Registration Closed**

Join us for a night of fun! Girls (Grades K - 5) will have the opportunity to dress up and be escorted by their Dads for an evening of dinner, dancing and great fun (limited seating available). Open to Middletown residents only. Girls may be escorted by a relative or family friend, 21 or older. As with all township events, alcohol is prohibited. Your evening includes DJ Music, Fun and Games, a complete buffet dinner, dessert, coffee and soda, souvenir photo with frame and special keepsake. Optional candid shots will also be taken and available for purchase through our photographer's website.

**Veterans Job Fair – April 24 10:00 am to 1:00 pm, Middletown VFW**  
Hiring our Heroes, a Job Fair for Veterans, will be held on Wednesday, April 24 from 10 am to 1 pm at Middletown VFW Post 2179. The post is located at 1 Veterans Lane in the Port Monmouth section of town.

The fair, which is organized by the Middletown Veterans Affairs Committee, is free for both employers and job-seekers. Employers across all sectors will be recruiting for currently-available positions. Interested employers and veterans can register for the event at [hoh.greatjob.net](http://hoh.greatjob.net). A resume writing class for veterans will be held in advance of the event at 8:30am.

Also at the job fair will be a Mobile Health Outreach Unit from the US Department of Veterans Affairs that will provide basic health screenings as well as representatives from the Monmouth County Veterans Service office who will assist veterans with benefits and claims information.

### **Unwanted Medication Drop Off April 27**

Got Drugs? Turn in unwanted or expired medication for safe disposal at the Middletown Police Department on Saturday, April 27th from 10 a.m. to 2 p.m. Police Headquarters is located at Town Hall, 1 Kings Highway. The collection is part of the National Take Back Initiative. Call 732-615-2039 for local information. Call the DEA at 1-800-882-9539 for program inquiries. Medications only. No needles please.

### **Business to Business Night April 30**

Middletown's 5<sup>th</sup> Annual Business to Business Night will be held on Tuesday, April 30<sup>th</sup> from 6:00 pm to 8:30 pm at the Middletown Arts Center, 36 Church Street. All Middletown business owners are invited to meet and network in a relaxed atmosphere with light fare from Chiafullo's. The event will also represents Middletown's official kick-off for the Paint the Town Pink campaign. Pink-up kits for businesses interested in participating will be available. The event is hosted by the Community Affairs Council and sponsored by Chiafullo's, Suzie's Sweet Shoppe, CMDS, The Write Angles LLC and Gateway Press. Reservations are suggested. RSVP to Lori Anne Oliwa at [LoriAnne@TheWriteAngles.com](mailto:LoriAnne@TheWriteAngles.com).

### **Mother-Son Carnival – Saturday, June 8 Registration Open**

Join us for an afternoon of fun! Boys (Grades K - 5) will have the opportunity to play unlimited carnival games with mom all afternoon. Boys and Moms may compete in fun relay races such as a three-legged race and water balloon toss for the chance to be their grade's champion! Boys may be escorted by a relative or family friend, 21 or older. Your carnival ticket includes DJ music, unlimited carnival games and prizes, hot dog, chips and a drink (additional food may be purchased separately), popcorn, Italian ice, 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place prizes for each Grade Champion, souvenir photo with frame and special keepsake.

**Carnival Location:** Croydon Hall Football Field – 900 Leonardville Rd, Leonardo. In the event of inclement weather, Carnival will be held in the Croydon Hall

to the Recreation Department to pick up your tickets. The Recreation Department Administrative Offices are being relocated. Please call prior to coming.

**Traffic Advisory - Rt 520 Bridge Construction**

Traffic will be reduced to one lane traffic in each direction on Route 520 bridge between Half Mile & Hance Avenue while Monmouth County preforms bridge repairs. The lane closures are expected to last for 4-6 months. There is no pedestrian bridge access during this time. Please seek alternate routes. Delays are expected especially during commuting hours.

**Township Committee Thanks Volunteers, Employees**

The Mayor and Township Committee issued several proclamations at the April meeting to thank residents and employees for their exemplary service to the community.

*National Volunteer Week April 21-29, 2013*

The Mayor and Township Committee proclaimed April 21-29, 2013 as National Volunteer Week and expressed their gratitude to many residents who volunteer their time to a wide variety of community programs, emergency service organizations including the all-volunteer Fire Department and Emergency Medical Services Department and nearly two dozen boards, committees and commissions. **Read more**

**Disaster Assistance Deadline Extended to May 1**

[www.disasterassistance.gov](http://www.disasterassistance.gov)

**MDRF Assistance Program**

The Middletown Disaster Relief Fund, an independent registered 501(c)3, and the New Monmouth Baptist Church has announced a joint grant program aimed to help residents of Middletown who were severely affected by Superstorm Sandy. Applications are due July 15, 2013. All inquiries and questions should be sent to [middletownrelief@gmail.com](mailto:middletownrelief@gmail.com) or the New Monmouth Baptist Church at [www.newmonmouthbaptistchurch.org](http://www.newmonmouthbaptistchurch.org)

Township of Middletown. Forms can be found on the Middletown Disaster Relief Website ([www.middletownrelief.com](http://www.middletownrelief.com)), at Middletown Town Hall at the Clerk's Office or by contacting the New Monmouth Baptist Church at [nmbchurch.org](http://nmbchurch.org). Income and other verification will be required.

### **Registration for Just for Toddlers Fall Session**

The Middletown Recreation Department's Just For Toddlers program is a preschool playgroup for children ages 18 months to 4 years old. Classes meet one, three or four times a week, depending on the age class. Three, 10-week sessions are offered September thru May for each class – Fall, Winter and Spring sessions. Fall session registration are now being accepted Visit [www.middletownnj.org](http://www.middletownnj.org) or call 732-615-2260 for details.

### **Take the Natural Hazard Survey**

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### **Brush Collection Update**

**SAVE THE DATE**

- April 24 – Veterans Job Fair, 10am to 1pm, VFW
- April 26 – Daddy-Daughter Dance
- April 28 – Kite Workshop @Poricity Park
- April 30 – B2B Night @ the MAC 6-8:30 pm
- June 8 – Mother Son Carnival
- July 1 – Summer Recreation Program
- July 11 – Summer Concert Series
- July 12 – Movies in the Park
- August 8 – Summer Concert Series
- August 16 – Movies in the Park
- August 22 – Summer Concert Series
- September 28 – Middletown Day
- October 25 – Halloween Hullabaloo
- 1st & 3rd Saturday (Monthly) – Mayor’s Office Hours – 10 am to noon, Town Hall.

Looking for more activities? Visit these sites for programs, classes and special events.

[Middletown Arts Center](#)

[Middletown Public Library](#)

[Middletown Recreation Department](#)

[Middletown Senior Center](#)

[Poricity Park Conservancy](#)

Tonya Keller Community Center

We kindly ask that you spread the word to your friends, neighbors and family in Middletown regarding our system that allows for Emergency Notification and Public Notices to residents and the sending out of valuable community information, such as this e-mail. Please do not reply to this email. It is sent from an unattended mailbox. You may [contact us](#) directly through our website.

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# Monmouth County re-examines its hazard mitigation plan

comments



Monmouth County and municipalities are holding a public information session on the area's hazard mitigation plan. The plan will address issues like regular flooding in Sea Bright, shown here in March, and how infrastructure projects and planning can minimize the risks such hazards present. (File Photo)

Print ([http://blog.nj.com/monmouth\\_impact/print.html?entry=2013/05/monmouth\\_county\\_re-examines\\_its\\_hazard\\_mitigation\\_plan.html](http://blog.nj.com/monmouth_impact/print.html?entry=2013/05/monmouth_county_re-examines_its_hazard_mitigation_plan.html))



(<http://connect.nj.com/user/chrobbin/index.html>) By Christopher Robbins, NJ.com  
(<http://connect.nj.com/user/chrobbin/posts.html>)

on May 22, 2013 at 9:11 AM

## HAZLET (<http://www.nj.com/hazlet>) –

When the time is ripe, the wise are prepared to harvest – and six months after Hurricane Sandy is certainly the right time to consider how Monmouth County's natural hazards are dealt with.

Tonight, the county will hold an informational session for its Multi-Jurisdictional Natural Hazard Mitigation Plan at the Rave Movie Theater, 2821 Rt. 35 in Hazlet, starting at 7 p.m.

While it may seem like a perfect time to discuss Monmouth County's plans to alleviate natural hazards and revise its emergency response

procedures, it is merely coincidence that the process is occurring so soon after the storm's impact.

"Sandy will definitely influence the end result of the plan," said Michael Oppegard, emergency management coordinator with the Monmouth County Sheriff's Office. "The experiences from Sandy will change some of the mitigation priorities that are outlined within the plan."

Monmouth County and its municipalities began the process of revising the Multi-Jurisdictional Natural Hazard Mitigation Plan last summer. The plan was originally written in 2000 when some state and local funding was tied to its establishment. By updating the plan now, governments can be eligible for grants and loans for newly identified projects.

The plan documents risks caused by each community's landscape and suggests opportunities to reduce those risks by infrastructure upgrades.

Rather than create one over-arching plan from the top down on the state or county level, individual municipalities develop their own lists of projects, which become part of the larger county plan.

<p><b>CONNECT WITH US</b></p> <ul style="list-style-type: none"> <li>• <b>Follow us on Twitter</b> (<a href="https://twitter.com/monmouth_nj">https://twitter.com/monmouth_nj</a>)</li> <li>• <b>Like us on Facebook</b> (<a href="https://www.facebook.com/njmonmouthcounty">https://www.facebook.com/njmonmouthcounty</a>)</li> <li>• <b>NJ.com/monmouth</b> (<a href="http://www.nj.com/monmouth/">http://www.nj.com/monmouth/</a>)</li> </ul>
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"The reason that we feel this works is because each community is unique in their landscape, development priorities and infrastructure maintenance and enhancements," Oppegard said. "In some instances yes it would be easier to establish priorities by county/region but in situations such as this allowing each community to develop their own priorities and controlling the projects and programs associated with mitigation they are able to address their vulnerabilities and hazards based on their local expertise, knowledge and over all community master plans."

The local priorities may be as simple as educating the public about disaster response or coastal storms like hurricanes and nor'easters, or as complicated as dredging lakes and rivers or burying power lines.

While most of the projects relate to flood control or storm damage, hazards like drought, wildfire, extreme heat and mosquito control are also discussed.

([http://ads.nj.com/RealMedia/ads/click\\_ix.ads/www.nj.com/monmouth/2013/05/monmouth\\_county\\_re](http://ads.nj.com/RealMedia/ads/click_ix.ads/www.nj.com/monmouth/2013/05/monmouth_county_re)



Everything Jersey

## Bayshore residents turn Hazlet hazard mitigation plan info session into Sandy forum

[Christopher Robbins, NJ.com](#) By [Christopher Robbins, NJ.com](#)

on May 23, 2013 at 6:44 AM, updated May 23, 2013 at 8:42 AM

They always talk about rebuilding the shore from Sandy Hook to Cape May - they never talk about Union Beach

**HAZLET** – During a week when much of the Jersey Shore is celebrating the grand re-opening of boardwalks and beaches and preparing for the onslaught of Memorial Day tourists, a group of residents who suffered the wrath of Hurricane Sandy are feeling neglected and ignored.

Tempers flared at a Thursday night information session on Monmouth County's multi-jurisdictional Natural Hazard Mitigation Plan, so much so that much of the discussion in Hazlet's Rave Cinemas turned from the plan to freewheeling criticism of the hurricane response and recovery.

Michael Opegard, emergency management coordinator with the Monmouth County Sheriff's Office, said the frustration was unsurprising.

"Understandably, there's a lot of frustration and angst out there," Opegard said. "The plan allows us to apply for funds after a storm, but it does not control when money is released – the Governor releases the money."

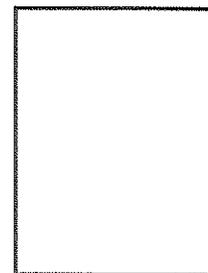
On a day when [Governor Chris Christie](#) was in Belmar to celebrate the re-opening of that borough's [boardwalk](#), residents of the Raritan Bayshore accused his administration and the federal government of putting too much focus on tourist areas.

"All the other towns are getting money," said one attendee from Union Beach. "They always talk about rebuilding the shore from Sandy Hook to Cape May – they never talk about Union Beach."

The attendees didn't single out politicians, some accused the media of focusing on boardwalks and beaches while area residents continue to struggle, whitewashing over extant issues.

**One massive storm.**

**Many towns**



**devastated.**

**[Track the recovery around New Jersey.](#)**

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Some living in Union Beach, Port Monmouth, Keansburg and Atlantic Highlands have endured six months of homelessness.

"A lot of our houses no longer exist, nobody has any answers," Carol Trigg, of Union Beach, said.

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Others complained that information on how to rebuild their houses, specifically whether to elevate their homes, was yet to come – extending their homelessness as another hurricane season begins in less than two weeks.

Charles Rogers, Middletown emergency management coordinator, sympathized with complaints about the slow and confusing movement of information.

"We don't have all the answers," Rogers said. "We go into meetings, and people tell us things, but by the time we walk out the door they're telling us something else."

Compounding their misery is the increase in federal flood insurance rates.

"My flood insurance has gone from \$1,350 to \$1,800," said a Belford resident. "If I don't elevate my home, in 2018 it will be \$9,500 – in five years, my flood insurance will cost more than my mortgage."

The emergency management officials, many of whom were also displaced by Sandy, were patient, answering the audience's questions as best they could, but in the end they were unable to steer the discussion back to the plan – which is essential in securing state and federal grants in the aftermath of a natural disaster.

"The requirement by FEMA is for us to be in compliance," said Michael Harriott, Union Beach emergency coordinator. "If we don't belong to the plan, we won't see a penny."

The funds will pay for both preparation and mitigation ahead of potential disasters, and for response and recovery needs afterwards – including raising the houses of bayshore residents.

"When we're talking about mitigation, we're talking about lessening the impact of natural disasters," Opegard said.

The plan itself is a series of projects proposed by municipalities, ranging from disaster response plans and culvert widening to floodgates, sea walls or elevating street levels, that may receive funding at Congress's discretion.

"The plan is being funded through a FEMA grant," Opegard said. "We collect history based information and then try to anticipate potential impacts based on history."

Oppegard said Sandy's impact, which tied up area emergency management officials, delayed the planning process.

"This was supposed to be done in September, but under our current projections it will be done in January," Oppegard said.

Oppegard said many projects on the last plan, adopted in 2009, were not funded by Congress.

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All Logos

2013-05-30 / Front Page

## Flood of frustration at mitigation meeting

BY KEITH HEUMILLER  
Staff Writer



Union Beach residents look over the remains of a bayside townhome shortly after it was leveled by flooding during superstorm Sandy. Municipalities throughout Monmouth County are working on long-term mitigation plans, which will now include storm-related priorities. KEITH HEUMILLER

HAZLET — As municipalities throughout Monmouth County work toward longrange flood mitigation strategies to protect against future storm events, residents still struggling to recover from Sandy are demanding answers.

Nearly 75 residents from Union Beach, Middletown, Keansburg and other Bayshore towns filled a movie theater in Hazlet on May 22 for a meeting on the county-wide Hazard Mitigation Plan. Less than 20 minutes into the meeting, the crowd changed the topic of conversation.

“Some of our neighbors are up in the air — like, 10, 12 feet up in the air,” said Sherrie Jarius, a storm-impacted Port Monmouth resident.

“This is a little ridiculous, and I’m concerned that these people are not only doing this out of sheer fear, but because no one is telling them what to do and what they should be waiting for. They are doing this with their own money.”

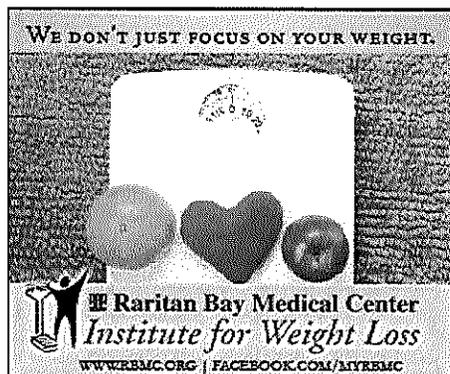
The meeting, which was held two days before the state began accepting applications for the federal Hazard Mitigation Grant funds, became a communal discussion on the problems and obstacles residents are facing more than 200 days after the superstorm.

Emergency management officials from Monmouth County, Union Beach, Atlantic Highlands, Aberdeen, Hazlet, Middletown, Keansburg, Holmdel, Keyport and Matawan attended the meeting — some of whom attempted to provide answers.

“I know exactly what you’re saying,” said Union Beach Emergency Management Coordinator (OEM) Michael Harriot, who chaired the meeting.

“I’m the guy who is sitting out there at 3 [a.m.], making the decision whether to take you out of your bed or not. I don’t want to make that phone call to you anymore.”

Last updated in 2009, the county mitigation plan must be updated every five years.



Participating towns submit lists of individual needs and necessary mitigation projects to the county, whose emergency officials collate them and present a unified plan to the state.

Before the plan is finalized in early 2014, municipal and county officials are hosting multiple public meetings to seek input from residents, attempting to identify which areas of which towns need additional protection from flooding, fire, blizzards or other natural disasters.

However, the grant process is competitive, as only some of the work listed in Monmouth County's plan has been funded by FEMA since 2009.

The remaining projects, such as some substantial flood control initiatives slated to be performed by the Army Corps of Engineers in Middletown and Union Beach, have yet to be completed.

"If that action had taken place in 2000 — like it was planned — none of this would have happened to Union Beach," said Union Beach resident Carol Trigg, referring to an Army Corps floodgate project that was first initiated more than 10 years ago.

"The houses would all still be standing."

Harriot said the Union Beach flood control project, akin to one that has been pending in Port Monmouth for a similar amount of time, is beyond the means of the borough.

"That's a \$138 million project. The borough of Union Beach could never afford to take that on," he said. "All of the legwork was done, all the engineering was done, everything was done. The president failed to fund the project. Without funding, you have no project."

Though the borough has been assured that the project will now be fully funded out of the multibillion-dollar congressional Sandy aid bill, Harriot said it would take years to complete.

Additional mitigation projects, such as beach replenishment and the creation of new berms in towns such as Keansburg, are slated to begin later this summer, according to one municipal engineer.

But residents said they are afraid to rebuild homes that will still be vulnerable to future flooding.

"I did all the work on my house and I'm saying, 'For what?'" a Union Beach resident said. "Because if we have another storm, there is no protection for me."

Others said they were frustrated with continually changing and overly complicated information, such as FEMA's flood elevation maps. After releasing advisory maps early this year, the agency plans to provide updated maps in August.

"It's been said that those maps will not be as severe," T&M Associates engineer Lori Thompson said.

Further complicating the issue, federal mitigation grants are not reimbursable, meaning that homeowners who elevate their houses prior to applying for the funds will not be eligible to recoup their expenses.

"If you have the opportunity to wait until August, you have the availability of more money," Thompson said. "Plus you have the base flood elevations available at that time, and you can make an informed decision."

However, a number of residents said they were tired of waiting.

"You're already paying the mortgage, whether you're living in the house or not," one Union Beach woman said. "And you're paying rent wherever you live. How long do they expect us to keep that up?"

Other concerns included the new elevations themselves, which in some instances will require seniors and parents with young children to climb 12 feet of stairs, and other federal mitigation programs — such as buyouts — that seem to have as many negative impacts as positive ones.

“The more they buyout in a town, the less tax ratables each town has,” Middletown OEM Coordinator Charlie Rogers said.

“Every town that has had major losses wants to get everybody back, or you’re not going to have a tax base. You just can’t survive that way.”

In the end, towns can only provide as much information as they can to residents while working to protect their communities and navigate the myriad bureaucratic hurdles that accompany federal funding, he said.

“We go to an awful lot of meetings. We walk in there, people tell us a lot of things, and by the time we’re walking out the door, they are telling us something else,” he said.

“It’s difficult for us to face a crowd and say, ‘You are going to get this, you are going to get that.’ If I told you that tonight, by the time we walk out the door, somebody will change the program. You need to file for everything you can.”

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MUNICIPAL BEACH MARINA RECREATION TOURISM LOCAL BUSINESSES

### Press Room » Multi-Jurisdictional Natural Hazard Mitigation Plan for Monmouth County UPDATE

06/19/2013 at 07:00 PM

#### Multi-Jurisdictional Natural Hazard Mitigation Plan for Monmouth County UPDATE

Natural hazards have the potential to cause property loss, loss of life, economic hardship, and threats to public health and safety. While an important aspect of emergency management deals with disaster recovery (the actions that a community takes to repair damages), an equally important aspect of emergency management involves **hazard mitigation** - sustained actions taken to reduce long-term risk to life and property. They are things we do today to be more protected in the future. For example, elevating buildings in flood hazard areas, installing hurricane clips and storm shutters, relocating critical facilities out of hazard areas, using fire-resistant construction materials in wildfire hazard areas, etc. Hazard mitigation actions are essential to breaking the typical disaster cycle of damage, reconstruction, and repeated damage. With careful selection, they can be long-term, cost-effective means of reducing risk and helping to create a more sustainable and disaster-resilient community.

A **hazard mitigation plan** describes an area's vulnerability to the various natural hazards that are typically present, along with an array of actions and projects for reducing key risks. This project list is known as a "mitigation strategy." While natural disasters cannot be prevented from occurring, the continued implementation of mitigation strategies identified in the plan will gradually, but steadily, make our communities more sustainable and disaster-resilient.

The **Multi-Jurisdictional Natural Hazard Mitigation Plan for Monmouth County** was prepared between 2007 and 2009 to meet the requirements of the Disaster Mitigation Act of 2000 (DMA 2000), which requires all states and local governments to have a hazard mitigation plan in order to be eligible to apply for certain types of federal hazard mitigation project grants. FEMA grant monies were received to cover the costs of the plan's development. Monmouth County used a 'multi-jurisdictional' approach, inviting all of the municipalities within the County to participate in the plan. At that time, 52 of the County's 53 jurisdictions opted to participate. This opened the door for the County and each of its 52 participating jurisdictions to apply to FEMA for hazard mitigation project funding, including monies which became available under recent Federal disaster declarations for Hurricane Irene and the remnants of Tropical Storm Lee in 2011, and Superstorm Sandy in 2012. All plan participants have been working since the plan was initially approved by FEMA in 2009 to complete the projects that were listed in their mitigation strategies.

Hazard mitigation plans must be: (a) implemented on an ongoing basis, and (b) updated every five years to ensure that they remain applicable representations of local risk and locally-preferred risk reduction strategies. Monmouth County and its jurisdictions initiated the first formal **plan update** last summer; the process is ongoing. The updated plan is expected to be reapproved by FEMA and adopted by all communities in 2014. The County has once again obtained FEMA grant funding to cover the cost of the plan update, and has opted to continue its 'multi-jurisdictional' approach. This time, all 53 municipalities in the County are participating. Each jurisdiction is attending meetings, providing feedback in a series of topic areas, reaching out to the public and other key stakeholders in the community, and developing an updated mitigation strategy. Successful participation in the plan update process is required to maintain eligibility to apply for mitigation project grants.

For questions or other feedback, or to find out how you can become involved, please contact your community's local elected official or Emergency Management Coordinator. At the County level, please feel free to reach out to Michael E. Oppegard, Coordinator, Monmouth County Sheriff's Office, Emergency Management Division (phone: 732-431-7400; e-mail: [moppegard@mcsnj.org](mailto:moppegard@mcsnj.org)) or his Deputy Coordinator, Margaret Murnane-Brooks (phone: 732-431-7400; e-mail: [mmurnane@mcsnj.org](mailto:mmurnane@mcsnj.org)). More information about the project is maintained on the County Sherriff's Office web site at: [www.mcsnj.org/sections-read-144.html](http://www.mcsnj.org/sections-read-144.html)



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http://www.monmouthsheriff.org/News-more-533.html

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### Press Releases

**06/22/13 - MONMOUTH COUNTY CONTINUES WORK ON ALL NATURAL HAZARD MITIGATION PLAN**

Monmouth County and its 53 municipalities are continuing to review and update the Monmouth County Multi-Jurisdictional Natural Hazard Mitigation Plan. The first county wide plan was finalized in 2009, after two years of development.

Through a grant, provided by the Federal Emergency Management Agency (FEMA), the Board of Chosen Freeholders contracted with URS Corp. Inc. of Clifton, N.J., to work with the Monmouth County Office of Emergency Management team and representatives from municipalities to update the mitigation plan. The plan is a documented evaluation of the hazards to which a community is susceptible and the extent to which these events will occur. It includes a risk assessment and a hazard-mitigation strategy. In addition, it identifies an area's vulnerability to the effects of natural hazards and the goals, objectives and actions required to minimize future loss.

"The revision of this plan in the wake of Superstorm Sandy is vitally important," said Sheriff Shaun Golden, who oversees the Monmouth County Office of Emergency Management. "Mitigation is preparation and planning now to reduce loss of life and property later, by lessening the impacts of future disasters."

While the primary hazard in Monmouth County is flooding, other potential hazards that are being analyzed are droughts, extreme cold, extreme heat, snow, ice, hail, windstorms, nor'easters, hurricanes, tropical storms and tornadoes.

Once the hazards and the assets within Monmouth County are evaluated, a mitigation strategy to increase the disaster resilience of the county, along with procedures for monitoring, evaluating and updating the plan will be completed.

Residents can learn more about a comprehensive all natural hazard-mitigation plan for the county and its 53 municipalities by visiting: [www.monmouthsheriff.org](http://www.monmouthsheriff.org), click on the OEM icon and select Hazard Mitigation Planning.

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**Monmouth County Crime Stoppers**  
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### Events Calendar

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**Coming Events**

08/25/14 - Foreclosure Sales Auction

09/2/14 - Foreclosure Sales Auction



The county and its municipalities are reviewing and updating the Multi-Jurisdictional Natural Hazard Mitigation Plan.

After receiving a grant from FEMA, the Board of Chosen Freeholders contracted with URS Corp. of Clifton to work with the county Office of Emergency Management to update the mitigation plan, which evaluates potential hazards. It includes risk-assessment and hazard mitigation strategy as well as identifies vulnerable areas and the goals, objectives and actions required to minimize future loss.

"The revision of this plan in the wake of Superstorm Sandy is vitally important," said Sheriff Shaun Golden, who oversees the Monmouth County Office of Emergency Management. "Mitigation is preparation and planning now to reduce loss of life and property later, by lessening the impacts of future disasters."

The primary hazard in Monmouth County is flooding, but droughts, extreme cold, extreme heat, snow, ice, hail, windstorms, nor'easters, hurricanes, tropical storms and tornadoes are also being analyzed. Once these hazards are evaluated, a plan will be created.

Residents can learn more about the plan by visiting [www.monmouthsheriff.org](http://www.monmouthsheriff.org) and clicking the OEM icon. Then select Hazard Mitigation Planning.

Share This Article



# 'Sandy: Our Next Steps' and Mobile Cabinet help residents

**Oceanport** — The Borough of Oceanport's Office of Emergency Management will hold a Community Meeting for residents on Monday October 21, between 6:30 and 9:30 p.m. at Maple Place School. The theme of this meeting is "Sandy: Our Next Steps".

Prior to the meeting, Oceanport has arranged for the state to host the Mobile Cabinet between 3:30 and 7 p.m. at Maple Place School. Oceanport residents, neighboring towns and business owners can go to check the status of their grants (Renew

- Department of State - Business Action Center
- Department of Banking and Insurance
- Department of Environmental Protection
- Department of Children and Families
- New Jersey Division of Consumer Affairs - Office of Consumer Protection
- National Flood Insurance Program/FEMA

The community meeting will have representatives from:

- Oceanport Cares
- Borough Construction Office-permitting process
- Monmouth County Health Department-Mold issues
- New Jersey Hope and Healing
- American Red Cross Community Recovery Specialist
- Sandy Long Term Recovery Program
- Catholic Charities- Case management assistance
- Deborah Heart and Lung Hospital-free testing to residents for potential respiratory problems

Information regarding renewal of the Monmouth County All-Hazard Mitigation Plan will be available and public comments will be welcomed.

Three manufacturers of flood barrier products to reduce the potential of flooding to homes and property will have products on display, video presentations, along with sample handouts and informational brochures. These products are state of the art in dealing with flooding.

## Meeting to focus on post-Sandy issues Oct. 21

**OCEANPORT** — The Borough Office of Emergency Management will hold a community meeting for residents 6:30-9:30 p.m. Oct. 21. Themed "Sandy: Our Next Steps," it will be held at Maple Place School.

Prior to the meeting, the borough has arranged for the state to host a mobile cabinet session 3:30-7 p.m. at the school. Residents of Oceanport and neighboring towns and business owners can attend the cabinet session to check the status of reNew Jersey Stronger applications and speak to representatives of state departments about concerns and casework. Representatives of the Federal Emergency Management Agency and the National Flood Insurance Program will also be present to answer questions.

State agencies that will send representatives to the cabinet session include the following: Governor's Office of Constituent Relations; Economic Development Authority/Stronger NJ Business; Department of Community Affairs/reNew Jersey Stronger; Department of State – Business Action Center; New Jersey Division of Consumer Affairs – Office of Consumer Protection; and the departments of the Treasury, Human Services, Banking and Insurance, Environmental Protection, and Children and Families.

The community meeting will have representatives from Oceanport Cares; the borough Construction Office for permitting issues; the Monmouth County Health Department for mold issues; New Jersey Hope and Healing; an American Red Cross community recovery specialist; Catholic Charities for case management assistance; and Deborah Heart and Lung Hospital for free testing to residents for potential respiratory problems.

Information regarding renewal of the Monmouth County Hazard Mitigation Plan will be available, and public comments will be welcome.

Three manufacturers of flood-barrier products will have samples, video presentations, handouts and informational brochures.

# A year after Sandy, many of the same problems

by Neil Schulman

**ceanport** — Nearly a year ago, residents from Oceanport met in Maple Place School. Generators provided light and heat as officials gave advice on issues such as dealing with mold, engineering construction, getting financial assistance, and similar issues for those who had suffered damage to their homes.

A year later, many still have the same problems. The electricity was working at the school, but many of the same problems were addressed at Monday's "Our Next Steps," a meeting for residents on Monday evening.

The meeting had been preceded by the New Jersey Mobile Cabinet, which brought many state government services to the residents, agencies ranging from Economic Development Authority's Stronger NJ Business Department of Community Affairs' Renew Jersey Stronger Programs to the Department of Children and Families and Department of Environmental Protection.

Mayor "Buzz" Baldanza, director of the Oceanport Office of Emergency Management, said that "Sandy: Our Next Steps" was organized for residents to learn what was happening with storm damage cleanup, and continue to help with problems they were facing.

services included:

- The Monmouth County Health Department, which was there to explain how to test for mold in homes that may have suffered flooding.

- Members of the Oceanport engineering and construction offices, to help residents meet the legal guidelines of rebuilding.

- Representatives from Red Cross Long Term Recovery, helping people suffering economic hardships as a result of the disaster get financial aid.

- Catholic Charities, offering case management.

- Several vendors offering materials and techniques to make homes more flood resistant.

- County representatives showing the Monmouth County Hazard Mitigation Plan, and asking for feedback, "so we can update the plan and make it better for the public," Baldanza said.

Mahon also briefly discussed the future of Borough Hall, which was damaged by flood waters in the storm. They have hired an architectural firm to review the costs of floodproofing.

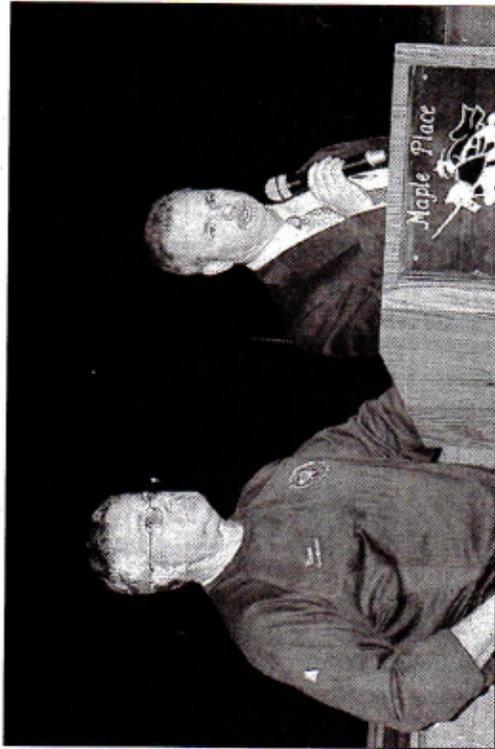
Mahon said that planning work on Borough Hall started relative-

ly recently because officials wanted to focus on addressing the problems residents were having from the storm before looking at this.

Estimates to fix the building say the work could be in excess of \$3 million — and the land it's on could still flood again with a major storm.

Mahon said that the borough is investigating whether it would be more cost effective to find another location for Borough Hall, either on Fort Monmouth or elsewhere in Oceanport. He said that they've looked at sites on Port Avenue, Peck Avenue, and borough owned parkland. If that was used, they would need to find other spots to turn into parks as part of a Green Acres property swap.

Mahon said that one of the big issues that would guide their decision making process is how much FEMA is willing to reimburse the borough to construct a new facility.



Mayor Michael Mahon addresses residents of Oceanport as Office of Emergency Management Director Mauro "Buzzy" Baldanza looks on at a workshop to help people deal with lingering issues from Sandy.

## NIP-TUCK

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**LUNCH SPECIAL**  
Every Friday  
from 11am to 4pm,  
Enjoy a Pint of Domestic beer & a Burger for \$7.00

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Newsroom: [editor@thelinknews.com](mailto:editor@thelinknews.com)

Around Monmouth Beach: [dicopouli@aol.com](mailto:dicopouli@aol.com)

Our State of Mind: [constructofmind@stateofmind.com](mailto:constructofmind@stateofmind.com)

in court. Any questions, please contact Tony Vecchio.

**Avon Office of Emergency Management**  
**Ken Child, Coordinator, Steven Kegelman, Dept. Coordinator**  
**732-502-4510**  
**avonoem@gmail.com**

The Office continues to focus on the recovery efforts related to Hurricane Sandy. Currently we have one full time employee who is tasked with working with our County, State and Federal response and recovery partners. If you have any Sandy or flood related questions please contact the office.

**Monmouth County Mitigation Plan Update**

The Monmouth County hazard mitigation plan describes the hazards that can occur in a community and the risks that these hazards pose, and then presents a list of actions and projects that the community would like to do to reduce these risks. The project list is known as a "mitigation strategy." Natural disasters cannot be prevented from occurring. But, if we tackle some of the biggest risks with hazard mitigation projects, a little at a time, we can be

safer the next time one happens and eventually, the 'disasters' won't have such a big impact on us. A good example of this might be in the case of flooding - if you have four feet of water in a residential area, you have a big problem and people are going to be recovering for months or years afterward. But if you have four feet of water on an empty lot, or in a neighborhood where the homes are elevated, things get back to normal fairly quickly. The flood ends up being less of a 'disaster', and more of a nuisance. That's what the goal is of hazard mitigation and hazard mitigation planning - to mitigate wherever we can so that our *hazards* don't become *disasters*.

The Multi-Jurisdictional Natural Hazard Mitigation Plan for Monmouth County was prepared between 2007 and 2009 to meet the requirements of the Disaster Mitigation Act of 2000 (or "DMA 2000"). This Act requires all states and local governments to have a hazard mitigation plan in order to be able to apply for certain types of FEMA mitigation project grants. Development of the first plan was led by the County, under a FEMA planning grant that covered the costs of its development. Though it wasn't required, Monmouth County used what FEMA calls a 'multi-jurisdictional' approach for the plan - meaning that instead of it just being a plan for the County government, every municipality was invited to participate as equal partners with the County. This opened the door for all municipalities to be able to apply to FEMA for hazard mitigation project grants, including monies that became available under recent Federal disaster declarations for Hurricane Irene, the remnants of Tropical Storm Lee, and of course - Superstorm Sandy. The Borough is part of this process and continues to work with the County during this update. More information about the project is maintained on the County Sherriff's Office web site at: [www.mcsonj.org/Sections-read-144.html](http://www.mcsonj.org/Sections-read-144.html)

Another project we are working on through the County OEM and NJ State Police is called Register Ready. This is an on-line tracking system that allows our residents to register with the State Police if they may need assistance with evacuating during storms or other emergencies. This program is computer-based and allows the local OEM to print out a list of our residents that may need assistance. You can find details about the program on the internet at [www.registerready.nj.gov](http://www.registerready.nj.gov).

The Avon-By-The-Sea Office of Emergency Management is always available to answer your questions or concerns regarding emergency preparedness for both the Borough and your family.

Avon Flood Map Services: The first thing you should do is check your flood hazard. Flood protection references are available at the Avon Public Library. You can also visit the Office of Emergency Management or Building Department Borough Hall to see if you are in a mapped floodplain. If so, we can give you more information, such as depth of flooding over a building's first floor and past flood problems in the area. If requested, we will visit a property to review its flood problem and explain ways to stop flooding or prevent flood damage. Call the Department at 732-502-4510. This service is free.

Monmouth University Polling Institute is conducting a survey in regards to the recovery efforts as result of Hurricane Sandy. They are interested in knowing if you are or were displaced as a result of the storm and your overall impression of the recovery efforts. This information will also be beneficial to the Borough as we continue to look for areas to improve in regards to recovery. The survey can be found at: [www.monmouthpoll.org/sandy](http://www.monmouthpoll.org/sandy). If you have any questions regarding the survey please contact Tim Tracey at 732-263-5860 or [pollingz@monmouth.edu](mailto:pollingz@monmouth.edu).

**AVON-BY-THE-SEA FIRST AID & SAFETY SQUAD**  
**732-502-4510**



## Press Room » MONMOUTH COUNTY SHERIFF'S OFFICE, OEM CONTINUES HAZARD MITIGATION PLAN UPDATE PROCESS

03/04/2014 at 07:00 PM

### MONMOUTH COUNTY SHERIFF'S OFFICE, OEM CONTINUES HAZARD MITIGATION PLAN UPDATE PROCESS

**Freehold:** Sheriff Shaun Golden is pleased to announce that work continues on the Monmouth County Sheriff's Office, Office of Emergency Management (OEM) Hazard Mitigation Plan update process. The plan is a documented evaluation of the hazards to which a community is susceptible and the extent to which these events will occur.

On Thursday February 27, OEM held two workshop sessions as part of the ongoing Monmouth County Multi-Jurisdictional Natural Hazard Mitigation Plan update process. The work sessions included a presentation from the consulting firm URS Corporation, who was hired through a FEMA grant. The sessions provided municipalities with assistance on the development and documentation of the mitigation strategy. Monmouth County's mitigation strategy is designed to reduce and eliminate risks to people and property from natural hazard events. The need for mitigation strategies has increased due to the increase in natural hazard occurrences.

"As a result of Superstorm Sandy, this plan and the information contained within it has never been more important," said Sheriff Shaun Golden, whose agency oversees the Office of Emergency Management. "Based on the hazards and risks, the projects identified by each town and Monmouth County will help shape the mitigation planning for the next several years."

The current Hazard Mitigation Plan was adopted by Monmouth County and municipalities in 2009. Under FEMA guidelines it is required to be updated every five years. The County has taken the lead on the overall planning process to guide the fifty-three municipalities in an effort to meet the FEMA requirements and therefore be able to officially adopt the plan.

Upon completion, Monmouth County OEM will submit the plan to New Jersey OEM and FEMA for final approval. Once approved by those two agencies, each municipality will be required to formally adopt the plan. They will then continue to be eligible for pre and post disaster mitigation grant funding. The County anticipates the draft plan will be available and ready for public comment by late spring of 2014. It will then be posted to the Office of Emergency Management's website.



*SHAUN GOLDEN/SHERIFF*

[www.monmouthsheriff.org](http://www.monmouthsheriff.org)

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## NEWS RELEASE

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FOR IMMEDIATE RELEASE:  
March 3, 2014

CONTACT: CYNTHIA SCOTT, PIO  
PHONE: 732.577.6613

### **MONMOUTH COUNTY SHERIFF'S OFFICE, OEM CONTINUES HAZARD MITIGATION PLAN UPDATE PROCESS**

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*(more)*

## **MONMOUTH COUNTY SHERIFF'S OFFICE, OEM CONTINUES HAZARD MITIGATION PLAN UPDATE PROCESS**

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Upon completion, Monmouth County OEM will submit the plan to New Jersey OEM and FEMA for final approval. Once approved by those two agencies, each municipality will be required to formally adopt the plan. They will then continue to be eligible for pre and post disaster mitigation grant funding. The County anticipates the draft plan will be available and ready for public comment by late spring of 2014. It will then be posted to the Office of Emergency Management's website.

###

## **Hazard Mitigation Plan Update**

Middletown's Emergency Management Office continues to work with the Monmouth County OEM to update the Multi-Jurisdictional Hazard Plan. The plan is a documented evaluation of the hazards to which a community is susceptible and the extent to which these events will occur. Monmouth County's mitigation strategy is designed to reduce and eliminate risks to people and property from natural hazard events. The need for mitigation strategies has increased due to the increase in natural hazard occurrences.

The current Hazard Mitigation Plan was adopted by Monmouth County and municipalities in 2009. Under FEMA guidelines it is required to be updated every five years. The County has taken the lead on the overall planning process to guide the fifty-three municipalities in an effort to meet the FEMA requirements and therefore be able to officially adopt the plan.

Upon completion, Monmouth County OEM will submit the plan to New Jersey OEM and FEMA for final approval. Once approved by those two agencies, each municipality will be required to formally adopt the plan. An approved plan means Middletown and other participating agencies will continue to be eligible for disaster mitigation grants. The final plan will be posted to the Office of Emergency Management's website and to the Middletown Township website.



**Monmouth Co. Sheriff** @MonmouthSheriff · now

Monmouth County Multi-Jurisdictional Natural Hazard Mitigation Plan Update:

PLS RT: @fema @femaregion2 @FEMASandy pic.twitter.com/iuhFQ7I7Jr

### MONMOUTH COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE

Monmouth County and its 53 municipalities have been working on the update of the Monmouth County Multi-Jurisdictional Natural Hazard Mitigation Plan since August of 2012. The draft of the updated plan is expected to be released in the early fall. The first county wide plan was completed in 2009. The plan is a documented evaluation of the natural hazards to which a community is susceptible and the extent to which these events will occur. It identifies an area's vulnerability to the effects of natural hazards and the goals, objectives and actions required to minimize future loss. Mitigation is preparation and planning now to reduce loss of life and property later, by lessening the impacts of future disasters.

This plan allows the county and the participating municipalities to apply for pre and post disaster mitigation grant funding through FEMA.

Once released, residents can review the draft of the multi-jurisdictional plan for the county and its 53 municipalities by visiting: [www.monmouthsheriff.org](http://www.monmouthsheriff.org), click on the OEM icon and select Hazard Mitigation Planning.



Shaun Golden  
Sheriff

8:14 AM - 12 Aug 2014 · Details

Flag media

Mitigation plan update informational message posted on the web site and also on twitter and facebook  
8/7/14

The screenshot shows a web browser window with the address bar containing the URL: <http://www.monmouthsheriff.org/files/oem-mitigation/Mitigation-PlanUpdate8-7-14.pdf>. The browser's address bar also shows the domain [monmouthsheriff.org](http://www.monmouthsheriff.org). The browser's tab bar shows several open tabs: "The Source - Home", "Deltek Time & Expense - L...", "NYSDOS Office of Comm...", "Suggested Sites", and "Web Slice Gallery".

The main content area of the browser displays a blue banner with the following text:

### MONMOUTH COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE

Monmouth County and its 53 municipalities have been working on the update of the Monmouth County Multi-Jurisdictional Natural Hazard Mitigation Plan since August of 2012. The draft of the updated plan is expected to be released in the early fall. The first county wide plan was completed in 2009. The plan is a documented evaluation of the natural hazards to which a community is susceptible and the extent to which these events will occur. It identifies an area's vulnerability to the effects of natural hazards and the goals, objectives and actions required to minimize future loss. Mitigation is preparation and planning now to reduce loss of life and property later, by lessening the impacts of future disasters.

This plan allows the county and the participating municipalities to apply for pre and post disaster mitigation grant funding through FEMA.

Once released, residents can review the draft of the multi-jurisdictional plan for the county and its 53 municipalities by visiting: [www.monmouthsheriff.org](http://www.monmouthsheriff.org), click on the OEM icon and select Hazard Mitigation Planning.

Below the text is the Monmouth County Sheriff's Office logo, which features a gold star with a blue border and the words "MONMOUTH COUNTY SHERIFFS OFFICE" around it. Below the logo, the name "Shaun Golden Sheriff" is displayed.

At the bottom of the browser window, a status bar shows "Page: 16 of 39", "Words: 6", and "1 item selected".

From: MTicktin@aol.com [mailto:MTicktin@aol.com]  
Sent: Wednesday, August 06, 2014 2:51 PM  
To: rpressler32@gmail.com  
Cc: Margaret Murnane Brooks; Michael Oppegaard  
Subject: for September issue (revised)

### **Natural Hazard Mitigation: What Roosevelt Residents Can Do**

*by Michael Ticktin*

The Monmouth County Sheriff's Office has issued the following notice:

"Monmouth County and its 53 municipalities have been working on the update of the Monmouth County Multi-Jurisdictional Natural Hazard Mitigation Plan since August of 2012. The draft of the updated plan is expected to be released in the early fall. The first county wide plan was completed in 2009. The plan is a documented evaluation of the natural hazards to which a community is susceptible and the extent to which these events will occur. It identifies an area's vulnerability to the effects of natural hazards and the goals, objectives and actions required to minimize future loss. Mitigation is preparation and planning now to reduce loss of life and property later, by lessening the impacts of future disasters.

"This plan allows the county and the participating municipalities to apply for pre and post disaster mitigation grant funding through FEMA.

"Once it is released, residents can review the draft of the all natural hazard-mitigation plan for the county and its 53 municipalities by visiting: [www.monmouthsheriff.org](http://www.monmouthsheriff.org), click on the OEM icon and select Hazard Mitigation Planning.'

The Sheriff's Office goes on to state as follows on its website: "Natural hazards have the potential to cause property loss, loss of life, economic hardship, and threats to public health and safety. While an important aspect of emergency management deals with disaster recovery those actions that a community must take to repair damages and make itself whole in the wake of a natural disaster an equally important aspect of emergency management involves hazard mitigation. Hazard mitigation measures are efforts taken before a disaster happens to lessen the impact that future disasters of that type will have on people and property in the community. They are things you do today to be more protected in the future. Hazard mitigation actions taken in advance of a hazard event are essential to breaking the typical disaster cycle of damage, reconstruction, and repeated damage. With careful selection, hazard mitigation actions can be long-term, cost-effective means of reducing the risk of loss and help create a more disaster-resistant and sustainable community."

Unlike the many other municipalities in Monmouth County that suffered extensive damage during Superstorm Sandy, Roosevelt does not have to deal with the hazard of flooding. While the potential for loss of electrical power remains a concern, it is one that is beyond our control and has to be addressed by JCP&L. The one hazard listed by FEMA and the Sheriff's Office, however, that we can do something about is the potential for wildfire. Every spring and autumn, the Borough arranges for fallen branches to be picked up and disposed of. In the interest of reducing the potential for danger to life and property from wildfire, it is imperative that all residents cooperate in the collection of dead branches from the own properties and, to the extent that they are able to do so, from adjacent woodlands. The next branch collection is planned for early October. Please note the date when it is announced and do your part to ensure that the wildfire hazard is reduced.



[www.monmouthsheriff.org](http://www.monmouthsheriff.org)

## NEWS RELEASE

FOR IMMEDIATE RELEASE  
October 20, 2014

CONTACT: CYNTHIA SCOTT, PIO  
PHONE: 732-431-6400 ext. 1113

### **SHERIFF'S OFFICE OEM TO RELEASE DRAFT OF HAZARD MITIGATION PLAN**

**Monmouth County:** Sheriff Shaun Golden is pleased to announce the release of the Draft Monmouth County Multi-jurisdictional Natural Hazard Mitigation Plan. The plan is a documented evaluation of the hazards to which a community is susceptible and the extent to which these events may occur.

The plan includes a hazard mitigation strategy which is designed to reduce and eliminate risks to people and property from natural hazard events. In addition, it identifies an area's vulnerability to the effects of natural hazards and the goals, objectives and actions required to minimize future loss. The need for mitigation strategies has become more essential due to the increase in natural hazard occurrences.

“The revision of this plan is highly important as we approach the two year anniversary of Superstorm Sandy,” said Sheriff Shaun Golden, who oversees the Office of Emergency Management. “Mitigation is preparation and planning now to reduce the loss of life and property later, by lessening the impacts of future disasters.”

The current Hazard Mitigation Plan was adopted by Monmouth County and the municipalities in 2009. Under FEMA guidelines it is required to be updated every five years.

*(con't)*

## **SHERIFF'S OFFICE OEM TO RELEASE DRAFT OF HAZARD MITIGATION PLAN**

Monmouth County has taken the lead on the overall planning process to guide the fifty-three municipalities in an effort to meet the FEMA requirements and therefore be able to officially adopt the plan.

Beginning Oct. 21, the draft plan will be posted to [www.monmouthsheriff.org](http://www.monmouthsheriff.org) and can be found under the OEM tab, for a 28 day review and public comment period. Public comments can be sent to [uemmitigation@mcsonj.org](mailto:uemmitigation@mcsonj.org). As part of the process, the draft plan will be submitted to New Jersey OEM and FEMA for review.

Once applicable comments are compiled into the plan and the draft is approved by those two agencies, each municipality will be required to formally adopt the plan. They will then continue to be eligible for pre and post disaster mitigation grant funding.

###

**APPENDIX 1.12 –  
JURISDICTIONAL WEBSITE COVERAGE OF THE PLAN**

http://www.monmouthsheriff.org/Sections-read-129.html

Monmouth County Sheriff ... x The Source - Basware AAP Use...

The Source - Home Deltek Time & Expense - L... NYSDOS Office of Comm... Suggested Sites Web Slice Gallery



# Monmouth County Sheriff's Office

Sheriff Law Enforcement Corrections Communications OEM FAQs Contact Us

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- Safety Tips
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- County Animal Response
- Sex Offenders Watch
- Monmouth County Website
- Sheriffs' Assn. of NJ Website
- Victim / Witness Assistance
- Social Media Hub
- L.E. Explorer Post #1

## Office Of Emergency Management

300 Halls Mills Road  
Freehold, NJ 07728  
Office Telephone: 732-431-7400  
Office Fax: 732-409-7532  
E-mail: [moppegaard@mcsoni.org](mailto:moppegaard@mcsoni.org)

The Monmouth County Office of Emergency Management is staffed by 4 full time personnel, a Coordinator, 2 Deputy Coordinators, a Domestic Preparedness Planner, and an administrative assistant. The office are the County EMS Coordinator, County Fire Coordinator and the County Register Ready Coordinator.

The Monmouth County Office of Emergency Management is responsible for the development and maintenance of the County's all hazards emergency management plan. The plan is made up of 15 functional Emergency Support Functions. The county will function during emergency or disaster conditions through the conduit to the New Jersey Office of Emergency Management. Through a multi-agency approach, emergency management programs. Through a multi-agency approach, comprised of various different response organizations, homeland security funding that is received by the county.

2 very important websites providing emergency information are the National Oceanic and Atmospheric Administration (NOAA) and the National Weather Service (NWS). storm watches and warnings and climate monitoring and forecasting information. Click the appropriate icons below to visit these websites.

- OEM Home
- Community Rating System (CRS)
- County Animal Response Team
- Advisories, Watches & Warnings
- County Evacuation Routes
- FEMA PRs/Fact Sheets/FAQs
- Flood Map Information
- Hazard Mitigation Planning**
- Mission/History/Background
- Hurricane Survival Guide
- Safety Plans
- Special Needs Registry
- Important Web Links

**New Jersey Cop Shot**  
**\$20,000 REWARD**  
**ALL COP SHOTS**

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- Sex Offenders Watch
- Monmouth County Website
- Sheriffs' Assn. of NJ Website
- Victim / Witness Assistance
- Social Media Hub
- L.E. Explorer Post #1



Monmouth County Crime Stoppers



## Hazard Mitigation Planning

Natural hazards have the potential to cause property loss, loss of life, economic hardship, and threats to public health and safety. While an important aspect of emergency management deals with disaster recovery those actions that a community must take to repair damages and make itself whole in the wake of a natural disaster an equally important aspect of emergency management involves hazard mitigation. Hazard mitigation measures are efforts taken **before a disaster happens** to lessen the impact that future disasters of that type will have on people and property in the community. They are things you do today to be more protected in the future. Hazard mitigation actions taken in advance of a hazard event are essential to breaking the typical disaster cycle of damage, reconstruction, and repeated damage. With careful selection, hazard mitigation actions can be long-term, cost-effective means of reducing the risk of loss and help create a more disaster-resistant and sustainable community.

The following documents are available to view concerning Monmouth County's Hazard Mitigation planning by clicking the appropriate link. Note that the Adobe Reader application is required to view some of the documents and if you need the application, click the Adobe download button below to proceed to Adobe's website. Once clicked, you will be leaving the Monmouth County Sheriff's Office website for the Adobe website. Once Adobe Reader is installed, revisit our website and you can read the document.



### 2014 (August) - Hazard Mitigation Plan Update:

- [Mitigation Plan Update Informational Message](#)

### 2014 (February) - Core Planning Group Meeting #5 - Working Session:

- [2/27/14 - Meeting Agenda](#)
- [2/27/14 - Hazard Mitigation Plan Update Presentation](#)
- [2/27/14- Worksheet 7 blank \(enterable form\)](#)
- [2/27/14- Worksheet 7 Field Descriptions](#)
- [FEMA "Mitigation Ideas" Document Link](#)

### 2013 (June) - Core Planning Group Meeting #4 - Working Session:

- [6/19/13 - Press Release](#)
- [6/6/13 - Meeting Agenda](#)
- [6/6/13 - Hazard Mitigation Plan Update Presentation](#)

### 2013 (May):

- [Monmouth County Revised Fact Sheet 2013](#)
- [Overview - How Local Priorities Have Changed Worksheet\(5\) - Due June 13, 2013](#)
- [Plan Integration Worksheet\(6\)\(enterable form\) - Due June 13, 2013](#)

### 2013 (April) - Core Planning Group Meeting #3 - Working Session:

- [4/15/13 - Meeting Agenda](#)
- [4/15/13 - Hazard Mitigation Plan Update Presentation](#)

### 2013 (February):

- [Community Worksheet 1 - Due March 28, 2013](#)
- [NIFIP Worksheet 2 \(enterable form\) - Due March 28, 2013](#)
- [Land Uses Development Trends Worksheet \(3\) - Due April 29, 2013](#)
- [Capability Assessment Update Worksheet \(4\) - Due April 29, 2013](#)
- [Plan Update Participating Criteria](#)
- [Hours Log Sheet To Support In Kind Match](#)
- [Public Outreach Log](#)

### 2012 (October):

- [Hazard Mitigation Survey Press Release](#)

### 2012 (September) - Core Planning Group Meeting #2 - Working Session:

- [9/28/12 - Meeting Agenda](#)
- [9/28/12 - Hazard Mitigation Plan Update Presentation](#)
- [Actions Tip Sheet](#)
- [New Jersey State Priority Score](#)

### 2012 (July/August) - Monmouth County Natural Hazard Mitigation Plan Update Process Continues:

- [Public Outreach Log](#)
- [Guidance Memo #1 - Public Outreach Methods](#)
- [Appendix E - Implementation Strategy \(Identified Mitigation Actions Per Municipality\)](#)
- [Section 9 - Plan Maintenance](#)
- [7/31/12 - Kickoff Meeting Agenda](#)
- [7/31/12 - Kickoff Meeting Presentation](#)
- [7/31/12 - Plan Evaluation Agenda](#)
- [7/31/12 - Plan Evaluation Presentation](#)

### 2012 (June) - Monmouth County Natural Hazard Mitigation Plan Update Process Begins:

- [Monmouth County Municipal Letter Signed](#)
- [Monmouth County Statement Of Authority](#)
- [Hours Log Sheet To Support In Kind Match](#)
- [Monmouth County Stakeholder Letter Signed](#)
- [June 29, 2012 Press Release](#)

### 2010 - Monmouth County Mitigation Plan Annual Progress Report:

- [2010 Mitigation Plan Annual Progress Report](#)

### 2009 - Monmouth County Natural Hazard Mitigation Plan:

- [Multi-Jurisdictional Natural Hazard Mitigation Plan](#)
- [Appendix A: Planning Committee Membership Information](#)
- [Appendix B: Impacts Of Natural Disasters On The Public Health System](#)
- [Appendix D: Participating Jurisdictions Action Item Prioritization Sheets](#)
- [Appendix E: Participating Jurisdictions Implementation Strategy Sheets](#)
- [Appendix F: Past Press Releases Issued By Monmouth County](#)

### Connect with us!



### Text UR Tip Anonymously!



### Events Calendar

#### September 2014

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30

### Coming Events

- 09/17/14 - Child Safety Seat Checkpoint
- 09/22/14 - Foreclosure Sales Auctions
- 09/29/14 - Foreclosure Sales Auction
- 10/6/14 - Foreclosure Sales Auction

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# New Jersey's Monmouth County

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## Office of Emergency Management

### Monmouth County's Multi-Jurisdictional Natural Hazard Mitigation Planning Project

Natural hazards have the potential to cause property loss, loss of life, economic hardship and threats to public health and safety.

An important aspect of emergency management deals with disaster recovery and the actions that a community must take to repair damages and make itself whole in the wake of a natural disaster. However, an equally important aspect of emergency management involves hazard mitigation and the efforts that can be taken before a disaster happens to lessen the impact that future natural disasters will have on people and property in the community.

Information about [Monmouth County's hazard mitigation planning process](#) is available on the Monmouth County Sheriff's Web site at [www.monmouthsheriff.org](http://www.monmouthsheriff.org)

Page Last Updated: 7/10/2012 4:10:00 PM

- EMERGENCY MANAGEMENT HOME
- SUPERSTORM SANDY RECOVERY INFORMATION
- EVACUATION ROUTES
- SPECIAL NEEDS REGISTRY
- HISTORY
- CONTACT US
- ADDITIONAL LINKS
- MUNICIPAL COORDINATORS' PAGE
- HAZARD MITIGATION PLANNING





# Township of Aberdeen NJ

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- Government
- Departments
- Community
- Calendar
- Contact Us



## Popular Links

- Request for Service
- Notification Sign-Up
- Agendas & Minutes
- Township Ordinances
- Find us on Facebook
- Events Photo Albums
- Bids, RFP's, & RFQ's
- Senior Center
- Businesses/EBC
- Town Events
- Forms & Documents
- Employment

Home > Township Latest News

## Township Latest News

### 3/17/2014 - Hazard Mitigation Plan Update Process

**Freehold:** Sheriff Shaun Golden is pleased to announce that work continues on the Monmouth County Sheriff's Office, Office of Emergency Management (OEM) Hazard Mitigation Plan update process. The plan is a documented evaluation of the hazards to which a community is susceptible and the extent to which these events will occur.

On Thursday February 27, OEM held two workshop sessions as part of the ongoing Monmouth County Multi-Jurisdictional Natural Hazard Mitigation Plan update process. The work sessions included a presentation from the consulting firm URS Corporation, who was hired through a FFMA grant. The sessions provided municipalities with assistance on the development and documentation of the mitigation strategy. Monmouth County's mitigation strategy is designed to reduce and eliminate risks to people and property from natural hazard events. The need for mitigation strategies has increased due to the increase in natural hazard occurrences.

"As a result of Superstorm Sandy, this plan and the information contained within it has never been more important," said Sheriff Shaun Golden, whose agency oversees the Office of Emergency Management. "Based on the hazards and risks, the projects identified by each town and Monmouth County will help shape the mitigation planning for the next several years."

The current Hazard Mitigation Plan was adopted by Monmouth County and municipalities in 2009. Under FEMA guidelines it is required to be updated every five years. The County has taken the lead on the overall planning process to guide the fifty-three municipalities in an effort to meet the FEMA requirements and therefore be able to officially adopt the plan.

Upon completion, Monmouth County OEM will submit the plan to New Jersey OEM and FEMA for final approval. Once approved by those two agencies, each municipality will be required to formally adopt the plan. They will then continue to be eligible for pre and post disaster mitigation grant funding. The County anticipates the draft plan will be available and ready for public comment by late spring of 2014. It will then be posted to the Office of Emergency Management's website.

Archives

http://www.aberdeennj.org/filestorage/1005/1007/slide2.png



http://www.allenhurstnj.org/content/167/620/default.aspx

Borough of Allenhurst, NJ - ... X Allenhurst - All Documents

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- Commissioners
- Meetings
- Administration
- Ordinances
- Budget Statements
- Public Safety
- Public Works
- Allenhurst Beach Club
- Allenhurst Beach Restaurant
- Planning/Zoning
- Municipal Court
- Board of Education
- Allenhurst Attractions
- Board of Health
- Gallery
- Allenhurst Garden Club
- Redevelopment
- FAQs
- Links / Local Businesses
- Online Forms
- Legal Notices

Site Map

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## Important Documents and Links for County Hazard Mitigation

[Monmouth County Sheriff's Office, OEM Continues Hazard Mitigation Plan Update Process](#)

[Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update](#)

[Monmouth County's Multi-Jurisdictional - Natural Hazard Mitigation Planning Project](#)

### Events

There are no items to display at this time

[Archives](#)

### News

**7/21/2014:**  
[Election Poll Workers Wanted](#)

**9/15/2014:**  
[Bulk Pickup Days Announced](#)

[Archives](#)

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# Borough of Allentown, NJ

"A Designated Village Center"

[Home](#) | [Clerk's Office](#) | [Elected Officials](#) | [Meeting Calendar](#) | [Meeting Minutes](#) | [Ordinances](#) | [Borough Code](#)



## Borough Information

8 North Main Street,  
 Allentown, NJ 08501  
 609-259-3151  
 Population: 1,828  
 Area: 0.6 square miles  
[E-mail](#)  
 Fax: 609-259-7530

## Borough office Hours

Monday thru Friday  
 9:00am - 3:30pm

## Tax Assessor office Hours

2nd & 4th Tuesday  
 between 5:00pm & 7:00pm

## General Information

Every Wednesday is Garbage day. They come very early in the morning so it is suggested that trash be placed at the curb, after 4pm, the night before.

Recycling is collected every OTHER Tuesday. It should also be placed at the curb, after 4pm, the night before.

## Welcome to Allentown, NJ



The Borough of Allentown, is a small historic village located in central New Jersey. It's located around the Mill Pond and along Doctor's Creek and Indian Run (believed to be part of the underground Railway). The village was originally settled in the 17th Century. Like most country villages in colonial days, Allentown developed around its mills. As the farms in the area grew, so did the need for blacksmith shops, wheelwrights, carriage makers, chair makers, shoemakers, seamstresses and tailors. By the end of the 18th Century more than 24 commercial enterprises existed within the village boundaries. The Borough of Allentown was and is today a center for travel across New Jersey. Main Street was a main route of travel from the Amboy's Port to Burlington during the 18th Century. Allentown has produced from its residents, six United State Congressman, a New Jersey Governor, a governor of the Washington Territory and the first Chief Justice of New Jersey, who was also a signer of the U.S. Constitution. There are currently 220 buildings and homes in the village that date prior to 1860. The Borough of Allentown continues to be a strong regional village providing employment opportunities, a variety of housing choices, is centrally located and is able to provide public services. Today, Allentown strives to maintain it's past history while attempting to offer the best in unique community living.

## Message Center:

**RECYCLING WILL BE:**  
 September 9 and 23  
 October 7 and 21

[Click here for information on Flu Shots on Sept. 22 at the Allentown First Aid Squad; Also informational sessions on Creating a Healthy Home After a Hurricane or Flood and on the Affordable Care Act](#)

[Click here for Monmouth County Hazardous Mitigation Planning](#)

[Become a Monmouth County Poll Worker. Click here for Poll Worker Recruitment Information](#)

[Click here for Backward Compost Bin Availability](#)

[Click here for information on Late Post-Dispatch](#)



The screenshot shows the website for the City of Asbury Park, specifically the page for the Office of Emergency Management - Hazard Mitigation Plan. The page features a navigation menu on the left with categories like 'RESIDENTS', 'OFFICE OF EMERGENCY MANAGEMENT - HAZARD MITIGATION PLAN', and 'VISITORS'. A red box highlights the link 'DEM Hazard Mitigation Plan' under the 'OFFICE OF EMERGENCY MANAGEMENT - HAZARD MITIGATION PLAN' section. A red arrow points from this link down to a text block on a separate page. The text block contains information about the Monmouth County Multi-Jurisdictional Natural Hazard Mitigation Plan, its update, and a link to the draft plan.

**RESIDENTS**  
Planning Board Meetings 2014  
Calendar  
Zoning Board Meetings 2014  
Calendar  
Planning Board Meeting 9-22-14  
Agenda  
Zoning Board Meeting 9-9-14 Agenda  
Asbury Park City Calendar  
CITY COUNCIL MEETING INFORMATION  
City Council Meeting Dates 2014  
City Council Agenda 03-19-14  
City Council Agenda 03-05-14  
City Council Agenda Part II 5-7-14  
City Council Agenda 03-26-14  
City Council Agenda 04-02-14  
City Council Agenda Part I 04-16-14  
City Council Agenda Part II 04-26-14  
City Council Agenda Part III 04-16-14  
City Council Agenda Part I 5-7-14  
City Council Agenda Part II 5-7-14  
City Council Agenda Part III 5-7-14  
City Council Agenda Part I 5-21-14  
City Council Agenda Part II 5-21-14  
City Council Agenda Part III 5-21-14  
City Council Agenda 6-4-14  
City Council Agenda Part I 6-18-14  
City Council Agenda Part II 6-18-14  
City Council Agenda 7-2-14 Part I  
City Council Agenda 7-2-14 Part II  
City Council Agenda 7-16-14 Part I  
City Council Agenda 7-16-14 Part II  
City Council Agenda 8-6-14 Part I  
City Council Agenda 8-6-14 Part II  
City Council Agenda 8-6-14 Part III  
City Council Agenda 8-20-14 Part I  
City Council Agenda 8-20-14 Part II  
City Council Agenda 9-17-14  
Library  
Police Department  
City Clerk  
Building Contractors  
Investigation/Claims Adjudication Board

**OFFICE OF EMERGENCY MANAGEMENT - HAZARD MITIGATION PLAN** [Back to News](#)  
[DEM Hazard Mitigation Plan](#)

**SUBSCRIBE NOW**  
Our weekly updates to AP's cultural scene, events, attractions & more.

Asbury Park  
September 16, 2014, 2:12 pm  
CLOUDY  
63°F

**CLICK FOR MUNICIPAL AND EVENTS CALENDAR**

**VISITORS**  
Directions  
Lodging  
Real Estate  
Art Galleries & Exhibits  
Asbury Park Visitors Guide  
NJ Transit

**Monmouth County and its 53 municipalities have been working on the update of the Monmouth County Multi-Jurisdictional Natural Hazard Mitigation Plan since August of 2012. The draft of the updated plan is expected to be released in the early fall. The first county wide plan was completed in 2009. The plan is a documented evaluation of the natural hazards to which a community is susceptible and the extent to which these events will occur. It identifies an area's vulnerability to the effects of natural hazards and the goals, objectives and actions required to minimize future loss. Mitigation is preparation and planning now to reduce loss of life and property later, by lessening the impacts of future disasters.**

**This plan allows the county and the participating municipalities to apply for pre and post disaster mitigation grant funding through FEMA.**

**Once released, residents can review the draft of the all natural hazard-mitigation plan for the county and its 53 municipalities by visiting: <http://www.monmouthsheriff.org/Sections-read-144.html>**



http://www.avonbytheseanj.com/avon\_fallwinter2013.pdf

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in court. Any questions, please contact Tony Vecchio.

**Avon Office of Emergency Management**  
**Ken Child, Coordinator, Steven Kegelman, Dept. Coordinator**  
 732-502-4510  
[avonoem@gmail.com](mailto:avonoem@gmail.com)

The Office continues to focus on the recovery efforts related to Hurricane Sandy. Currently we have one full time employee who is tasked with working with our County, State and Federal response and recovery partners. If you have any Sandy or flood related questions please contact the office.

**Monmouth County Mitigation Plan Update**

The Monmouth County hazard mitigation plan describes the hazards that can occur in a community and the risks that these hazards pose, and then presents a list of actions and projects that the community would like to do to reduce these risks. The project list is known as a "mitigation strategy." Natural disasters cannot be prevented from occurring. But, if we tackle some of the biggest risks with hazard mitigation projects, a little at a time, we can be

safer the next time one happens and eventually, the 'disasters' won't have such a big impact on us. A good example of this might be in the case of flooding – if you have four feet of water in a residential area, you have a big problem and people are going to be recovering for months or years afterward. But if you have four feet of water on an empty lot, or in a neighborhood where the homes are elevated, things get back to normal fairly quickly. The flood ends up being less of a 'disaster', and more of a nuisance. That's what the goal of hazard mitigation and hazard mitigation planning – to mitigate wherever we can so that our hazards don't become disasters.

The Multi-Jurisdictional Natural Hazard Mitigation Plan for Monmouth County was prepared between 2007 and 2009 to meet the requirements of the Disaster Mitigation Act of 2000 (or "DMA 2000"). This Act requires all states and local governments to have a hazard mitigation plan in order to be able to apply for certain types of FEMA mitigation project grants. Development of the first plan was led by the County, under a FEMA planning grant that covered the costs of its development. Though it wasn't required, Monmouth County used what FEMA calls a 'multi-jurisdictional' approach for the plan – meaning that instead of it just being a plan for the County government, every municipality was invited to participate as equal partners with the County. This opened the door for all municipalities to be able to apply to FEMA for hazard mitigation project grants, including monies that became available under recent Federal disaster declarations for Hurricane Irene, the remnants of Tropical Storm Lee, and of course - Superstorm Sandy. The Borough is part of this process and continues to work with the County during this update. More information about the project is maintained on the County Sheriff's Office web site at: [www.nj-coi.org/Sections-read-144.html](http://www.nj-coi.org/Sections-read-144.html)

Another project we are working on through the County OEM and NJ State Police is called Register Ready. This is an on-line tracking system that allows our residents to register with the State Police if they may need assistance with evacuating during storms or other emergencies. This program is computer-based and allows the local OEM to print out a list of our residents that may need assistance. You can find details about the program on the internet at [www.registerready.nj.gov](http://www.registerready.nj.gov).

The Avon-By-The-Sea Office of Emergency Management is always available to answer your questions or concerns regarding emergency preparedness for both the Borough and your family.

**Avon Flood Map Services:** The first thing you should do is check your flood hazard. Flood protection references are available at the Avon Public Library. You can also visit the Office of Emergency Management or Building Department/Borough Hall to see if you are in a mapped floodplain. If so, we can give you more information, such as depth of flooding over a building's first floor and past flood problems in the area. If requested, we will visit a property to review its flood problem and explain ways to stop flooding or prevent flood damage. Call the Department at 732-502-4510. This service is free.

Monmouth University Polling Institute is conducting a survey in regards to the recovery efforts as result of Hurricane Sandy. They are interested in knowing if you are or were displaced as a result of the storm and your overall impression of the recovery efforts. This information will also be beneficial to the Borough as we continue to look for areas to improve in regards to recovery. The survey can be found at: [www.monmouthpoll.org/sandy](http://www.monmouthpoll.org/sandy). If you have any questions regarding the survey please contact Tim Tracey at 732-263-5860 or [polling@monmouth.edu](mailto:polling@monmouth.edu).

**AVON-BY-THE-SEA FIRST AID & SAFETY SQUAD**  
732-502-4510



MUNICIPAL BEACH MARINA RECREATION TOURISM LOCAL BUSINESSES

## Press Room » Multi-Jurisdictional Natural Hazard Mitigation Plan for Monmouth County UPDATE

06/19/2013 at 07:00 PM

### Multi-Jurisdictional Natural Hazard Mitigation Plan for Monmouth County UPDATE

Natural hazards have the potential to cause property loss, loss of life, economic hardship, and threats to public health and safety. While an important aspect of emergency management deals with disaster recovery (the actions that a community takes to repair damages), an equally important aspect of emergency management involves **hazard mitigation** - sustained actions taken to reduce long-term risk to life and property. They are things we do today to be more protected in the future. For example, elevating buildings in flood hazard areas, installing hurricane clips and storm shutters, relocating critical facilities out of hazard areas, using fire-resistant construction materials in wildfire hazard areas, etc. Hazard mitigation actions are essential to breaking the typical disaster cycle of damage, reconstruction, and repeated damage. With careful selection, they can be long-term, cost-effective means of reducing risk and helping to create a more sustainable and disaster-resilient community.

A **hazard mitigation plan** describes an area's vulnerability to the various natural hazards that are typically present, along with an array of actions and projects for reducing key risks. This project list is known as a "mitigation strategy." While natural disasters cannot be prevented from occurring, the continued implementation of mitigation strategies identified in the plan will gradually, but steadily, make our communities more sustainable and disaster-resilient.

The **Multi-Jurisdictional Natural Hazard Mitigation Plan for Monmouth County** was prepared between 2007 and 2009 to meet the requirements of the Disaster Mitigation Act of 2000 (DMA 2000), which requires all states and local governments to have a hazard mitigation plan in order to be eligible to apply for certain types of federal hazard mitigation project grants. FEMA grant monies were received to cover the costs of the plan's development. Monmouth County used a 'multi-jurisdictional' approach, inviting all of the municipalities within the County to participate in the plan. At that time, 52 of the County's 53 jurisdictions opted to participate. This opened the door for the County and each of its 52 participating jurisdictions to apply to FEMA for hazard mitigation project funding, including monies which became available under recent Federal disaster declarations for Hurricane Irene and the remnants of Tropical Storm Lee in 2011, and Superstorm Sandy in 2012. All plan participants have been working since the plan was initially approved by FEMA in 2009 to complete the projects that were listed in their mitigation strategies.

Hazard mitigation plans must be: (a) implemented on an ongoing basis, and (b) updated every five years to ensure that they remain applicable representations of local risk and locally-preferred risk reduction strategies. Monmouth County and its jurisdictions initiated the first formal **plan update** last summer; the process is ongoing. The updated plan is expected to be reapproved by FEMA and adopted by all communities in 2014. The County has once again obtained FEMA grant funding to cover the cost of the plan update, and has opted to continue its 'multi-jurisdictional' approach. This time, all 53 municipalities in the County are participating. Each jurisdiction is attending meetings, providing feedback in a series of topic areas, reaching out to the public and other key stakeholders in the community, and developing an updated mitigation strategy. Successful participation in the plan update process is required to maintain eligibility to apply for mitigation project grants.

For questions or other feedback, or to find out how you can become involved, please contact your community's local elected official or Emergency Management Coordinator. At the County level, please feel free to reach out to Michael E. Opegaard, Coordinator, Monmouth County Sheriff's Office, Emergency Management Division (phone: 732-431-7400; e-mail: moppegard@mcsonj.org) or his Deputy Coordinator, Margaret Murnane-Brooks (phone: 732-431-7400; e-mail: mmurnane@mcsonj.org). More information about the project is maintained on the County Sheriff's Office web site at: [www.mcsonj.org/Sections-read-144.html](http://www.mcsonj.org/Sections-read-144.html)



Featured Story

BB Sustainable Kick Off Meeting Feb 17 7pm

Invitation to attend the Kick Off Meeting at the Carmen Biase Center

Read More...

Announcements

- Volunteers needed to plant Dune Grass
- BB Sustainable Kick Off Meeting Feb 17 7pm
- USCG Auxiliary Boating Safety Classes
- Monmouth County needs Election Poll Workers
- Emergency Siren test on Every Wednesday
- NJ American Water Co Temp Water Treatment
- Election Poll Workers
- Fletcher Lake Mini Park
- Memorial Day Weekend Festival 2015 Application
- DOG LICENSE RENEWALS
- Neighborhood Watch Meeting March 11, 2015
- Bradley Beach Historical Museum
- Hazard Mitigation Plan Update
- OEM PUBLIC INFO EBOLA
- How do I? FAQ'S Section

More News...

Calendar of Meetings

- 02/19 Zoning Board of Adjustment
- 02/24 Council Meeting
- 03/10 Council Meeting
- 03/24 Council Meeting
- 04/14 Council Meeting
- 04/28 Council Meeting
- 05/12 Council Meeting
- 05/26 Council Meeting
- 06/09 Council Meeting
- 06/23 Council Meeting

http://www.bradleybeachnj.gov/Documents/News\_Release\_-\_Sheriff's\_OfficeOEM\_to\_Release\_Draft\_Hazard\_Mitigation\_Plan.pdf

Emergency Notification System

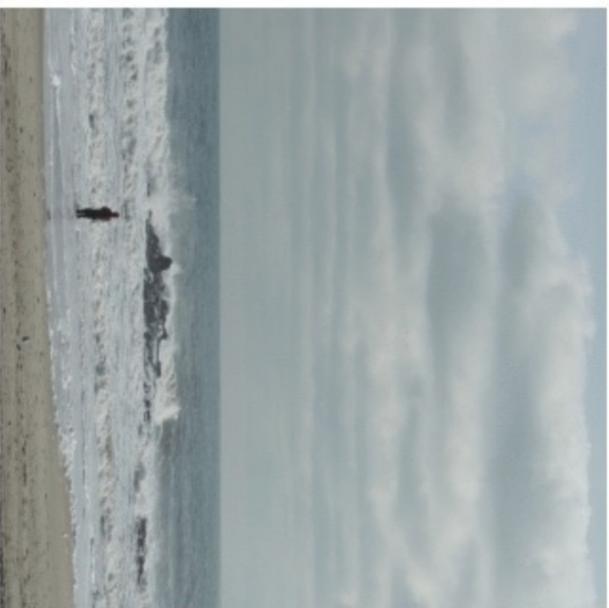
Bradley Beach Emergency Notification Information

Get alerted about emergencies and other important community news by signing up for our Emergency Alert System. This emergency notification system enable us to provide you with critical information quickly in a variety of situations, such as severe weather, unexpected road closures, missing persons, and evacuation of buildings or neighborhoods.

You will receive time-sensitive messages and text messages wherever you specify, such as your cell, house number and email.

Please email - info@bradleybeachnj.gov and include the following information:

- Name:
- Address:
- Phone numbers (indicate house or cell):
- email address:



2015 Municipal Calendar PDF





A COMMUNITY BY THE RIVER

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- [ORGANIZATIONS](#)
- [PET LICENSING](#)
- [WATER REPORTS](#)
- [GATEWAY TO BRIELLE](#)
- [HELPFUL LINKS](#)

## Borough of Brielle, NJ

### HAZARD MITIGATION PLAN UPDATE

8/15/2014

#### MONMOUTH COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE

Monmouth County and its 53 municipalities have been working on the update of the Monmouth County Multi-Jurisdictional Natural Hazard Mitigation Plan since August of 2012. The draft of the updated plan is expected to be released in the early fall. The first county wide plan was completed in 2009. The plan is a documented evaluation of the natural hazards to which a community is susceptible and the extent to which these events will occur. It identifies an area's vulnerability to the effects of natural hazards and the goals, objectives and actions required to minimize future loss. Mitigation is preparation and planning now to reduce loss of life and property later, by lessening the impacts of future disasters.

This plan allows the county and the participating municipalities to apply for pre and post disaster mitigation grant funding through FEMA. Once released, residents can review the draft of the multi-jurisdictional plan for the county and its 53 municipalities by visiting: [www.monmouthshariff.org](http://www.monmouthshariff.org), click on the OEM icon and select Hazard Mitigation Planning.

[Click here for brochure](#)

[Printable Version](#)

[Send this article](#)

August 17 2014

**Borough of Brielle**  
 601 Union Lane  
 Brielle, NJ 08730  
 (732) 528-6600

[HOME DIRECTORY](#) | [GOVERNMENT](#) | [MEETINGS & AGENDAS](#) | [NEWS & ANNOUNCEMENTS](#) | [CALENDAR](#) | [FORNS](#) | [HISTORY OF BRIELLE](#) | [BOROUGH ORDINANCES](#) | [PUBLIC WORKS](#) | [PUBLIC SAFETY](#) | [FINANCE CORNER](#) | [ENVIRONMENTAL COMMISSION](#) | [SCHOOLS & EDUCATION](#) | [BRIELLE PUBLIC LIBRARY](#) | [ORGANIZATIONS](#) | [PET LICENSING](#) | [GATEWAY TO BRIELLE](#) | [HELPFUL LINKS](#)





## Office of Emergency Management (OEM)

<b>Russell Macnow</b> Mayor	<b>Kevin Sauter</b> Coordinator/Police Chief	<b>Philip Maida</b> Deputy Coordinator
<b>Michael Burke</b> Fire Chief	<b>Michael Spinella</b> First Aid Captain	<b>Edward Thompson</b> DPW Director

Monmouth County Hazard Mitigation Plan Update – 2014

Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update – 2013

Monmouth County Fact Sheet – July 2014

Monmouth County Multi-Jurisdictional Natural Hazard Planning Project – Information

**Related Links**

- [New Jersey OEM](#)
- [FEMA](#)
- [Monmouth County OEM](#)
- [Ready.gov](#)
- [U.S. Department of Homeland Security](#)

### SITE MAP

- Administration
- Departments
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- Emergency Services
  - Office of Emergency Management (OEM)
  - CN First Aid Squad
  - Police Department
  - CN Fire Department

### EVENTS

[Print](#) [Week](#) [Month](#) [Agenda](#)

<b>Wednesday, September 17</b>	
8:00am	Police Department Late Ho
1:00pm	Assessor Hours
<b>Thursday, September 18</b>	
8:00pm	Zoning Board
<b>Friday, September 19</b>	
9:00am	Municipal Court
<b>Monday, September 22</b>	
9:30am	Assessor Hours
<b>Tuesday, September 23</b>	



http://www.dealborough.com/public\_notices.html

Borough of Deal - Public Inf... | bnday.beachnj.gov

The Source - Home | Detek Time & Expense - L... | NYSDOS Office of Comm... | Suggested Sites | Web Site Gallery

Home | History | Beaches | News | Public Information | Public Safety | Administration | Ordinances | Contact Us



**BOROUGH OF DEAL NJ**  
(732) 531-1454



**PUBLIC INFORMATION**

**Meetings:**

Commissioner meetings are held every 2nd and 4th Friday of the month at 9:00AM.  
Planning/Zoning meetings are held the 1st Thursday of every month at 7:30PM.

**Public Notices:**

**Property Assessment Process is Changing** 04-Jul-2013  
In March, 2013, Governor Chris Christie signed into law Chapter 15 P.L. 2013 known as the Assess.

**Notice to Bidders/W. Stanley Conover Pavilion** 25-Feb-2013  
W. STANLEY CONOVER PAVILION db # 11.

**Attention Deal Borough Property Owners and Residents** 16-Nov-2012  
November 15, 2012 Dear Borough Property Owner and Residents: Hurricane Sandy

http://www.dealborough.com/public\_notices.html

Borough of Deal - Public Inf... | bnday.beachnj.gov

The Source - Home | Detek Time & Expense - L... | NYSDOS Office of Comm... | Suggested Sites | Web Site Gallery

2012 Audit Report 01-Dec-2013  
The summary of the 2012 Audit Report for the Borough of Deal is now available for download here. (mod.)

2013 Municipal Budget Publication 11-Jun-2013  
The 2013 Budget Publication for the Borough of Deal is now available for download here. (mod.)

2012 Municipal Budget 10-Aug-2013  
The 2012 Municipal Budget for the Borough of Deal is available for download here. (mod.)

2011 Municipal Budget 10-Aug-2013  
The 2011 Municipal Budget for the Borough of Deal is available for download here. (mod.)

2011 Audit Report 16-Sep-2012  
The summary of the 2011 Audit Report for the Borough of Deal is now available for download here. (mod.)

2010 Municipal Budget 16-Aug-2012  
The 2010 Municipal Budget for the Borough of Deal is available for download here. (mod.)

**Hazard Mitigation Information:**

2014 MONMOUTH COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE - Aug  
Monmouth County Fact Sheet May 2013  
Monmouth County Fact Sheet June 2013  
Monmouth County Fact Sheet July 2014

**Stormwater Pollution Information:**

MSRP Website update  
Solutions to Stormwater Pollution

**Borough of Deal Forms:**

Planning Board Checklist  
Planning Board Application  
Zoning Application  
OPBA Request

**NJNG Energy Programs:**

Click here to learn more about New Jersey Natural Gas Energy Programs.

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The Borough of  
**Eatontown**  
 47 Broad St Eatontown NJ 07724



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- Links
- Miscellaneous
- Eatontown Library
- Emergency Info
- Pictures
- Power Outage Info

[Pay Tax Bills Online Click here for More Info](#)



 The Borough Now takes Credit Cards for Many Departments  
[Click Here for More Info](#)

 Like us on Facebook
  Follow us on Twitter

The Borough of Eatontown is committed towards treating people in a manner consistent with **all** applicable civil rights laws and regulations, including but not limited to: the Federal Civil Rights Act of 1964, The New Jersey Law Against Discrimination, the Americans with Disabilities Act and the Conscientious Employee Protection Act. To see the **resolution** affirming this, click [here](#).

Have important public safety information sent to you during times of crisis. Don't wait until the next natural disaster to sign up for the Borough's **CODE RED** service, sign up today. Click [here](#) to start enrollment.

The **Eatontown Food Co-op** feeds Eatontown residents who are in immediate need. Click [here](#) for their **2014 operating schedule**. Call **732-610-8588**.

The **Eatontown Farmer's Market** is now open every **Sunday from 9am-2pm**. This year will feature produce from Laurino Farms. New vendors are welcome. To find out how to get involved, please call 732-389-7621.

The **Monmouth County Board of Elections** is looking for poll workers. To qualify, you must be a registered voter in Monmouth County and attend a poll worker training class. Pay is \$200 for a primary or general election. Call **732-431-7802 x7150**.

Check out photos from the **Eatontown Preschool's** recent **farm chores trip** to the **Eatontown Historical Museum** [here](#).

Click [here](#) to read the **Monmouth County Office of Emergency Management's Hazard Mitigation Plan**.

Sponsorships are now available for the **2015 Borough Calendar**. Ads start as low as **\$156.25 per month**. 98% of the ad space has been sold so call **Laurie** at **732-389-7621** for more information today.

Make plans to join us for **Eatontown Community Day** on **Saturday, October 11th** from **2PM to dusk**. Saturday, October 18th is the raindate. Click [here](#) for the flyer.

Meetings & Events

September 2014

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

Color Key

Week-at-a-Glar



Borough of Englishtown - Windows Internet Explorer

http://www.englishtownnj.com/OEM.htm

monmouth county hazard mitigation plan update

**Borough of Englishtown**



**Borough of Englishtown**  
**Office of Emergency Management**  
**Coordinator: Lt. Peter S. Cooke Jr.**  
**(732) 446-9235**

The Emergency Management Act of 1989, originally known as the Civil Defense Act of 1942, makes it possible to coordinate resources, manpower, equipment and financial assistance from county, state and federal agencies in the event of a local catastrophe.

The State Office of Emergency Management issues guidelines, in the form of a checklist, for development of county and municipal Emergency Operations Plans. These plans are reviewed and updated every four years.

An Emergency Operation Plan describes the organization, responsibilities, capabilities and procedures for municipal response during an emergency. An emergency is an unusual incident by natural or human causes that is too large to be handled by regular municipal services. A natural disaster includes hurricanes, flood or snow storms. An unnatural disaster could be a plane crash, a train derailment, chemical spill or fire.

The Emergency Operation Plan is initiated by the municipal emergency coordinator, who notifies the office of Emergency Management if an emergency or disaster overwhelms local emergency capabilities ( police, fire department, public health, public works and social service agencies) and county assistance is needed. Gary McTighe, the Acting Monmouth County Coordinator of the Office of Emergency Management, coordinates the necessary county, state and federal resources to address the crisis.

As of 2000, all of the 53 municipalities in Monmouth County received state approval of their Emergency Operations Plans (EOP). Monmouth County is the largest county with 100% compliance in New Jersey. This shows that cooperation between the Office of Emergency Management and local municipalities brings tangible results to the residents and businesses of Monmouth County.



To view the Monmouth County Hazard Mitigation Planning Process, please click on the link below:

[New Jersey's Monmouth County Office of Emergency Management](#)

start Borough of Englishtown Inbox - anna.foley@... Press Documents - Microsoft Search Desktop 10:11 AM

# Fair Haven, New Jersey



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## Office of Emergency Management

**Lt. Joseph McGovern**  
**OEM Coordinator**

35 Fisk Street, Fair Haven, NJ 07704  
732-747-0241 Ext. 324  
[jmccgovern@fhboro.net](mailto:jmccgovern@fhboro.net)

**Cpl. Jeffrey K. Jarvis**  
**1st Deputy Coordinator**

**Sgt. Jesse J. Dykstra**  
**2nd Deputy Coordinator**

Emergency Management is responsible for the Borough's all-hazard Emergency Operations Plan. The plan outlines how Fair Haven will function during emergency or disaster conditions.

The office regularly conducts preparedness drills, assists organizations with their emergency plans and seeks to educate the public about the value of emergency preparedness. OEM is actively involved with several county projects including the Hazard Mitigation Plan, Registry Ready, and a Mass Distribution Plan.

Fair Haven OEM is looking for volunteers to assist during an emergency. Volunteers must be at least 18 years of age. For more information contact Lt. Joseph McGovern at 732-747-0241, extension 324.

[Multi-Jurisdictional Hazard Mitigation Plan](#)

[Hazard Mitigation Planning](#)

[Plan for Update Fact Sheet](#)

[Natural Hazards Survey for Residents](#)

### NOTICES

Severe Storm Disaster Plan & Kit

RED CROSS HURRICANE PREPAREDNESS INFORMATION

[+] Additional Notices





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## Borough of Farmingdale

Known as "Today's Town...with Yesterday's Touch", Farmingdale, and its Main Street, dates back to an Indian path toward the Manasquan River. The town of Farmingdale started out with two stores, two taverns, and 10-12 dwellings.

In 1903, Farmingdale was incorporated into its own independent municipality, encompassing one-half square mile, it was known primarily as a residential and light industrial community. Now, more than a century later, governed by a Mayor and Borough Council, Farmingdale, at 0.5 square miles in land area, is an established residential and light industrial community of approximately 1600 residents. Its vibrant, small town commercial district meets the needs of its citizens, whose well-maintained homes on small lots evoke memories of days gone by. A look around Farmingdale today still speaks of yesterday.

[History of Farmingdale](#)

## Farmingdale News

**NOTICE:**  
[Update on Sheriff's Office OEM - Draft Hazard Mitigation Plan](#) - Please feel Free to Read the Plan and forward comments to oemmitigation@mcsonj.org

[Direct Link to the Draft Hazard Mitigation Plan](#)

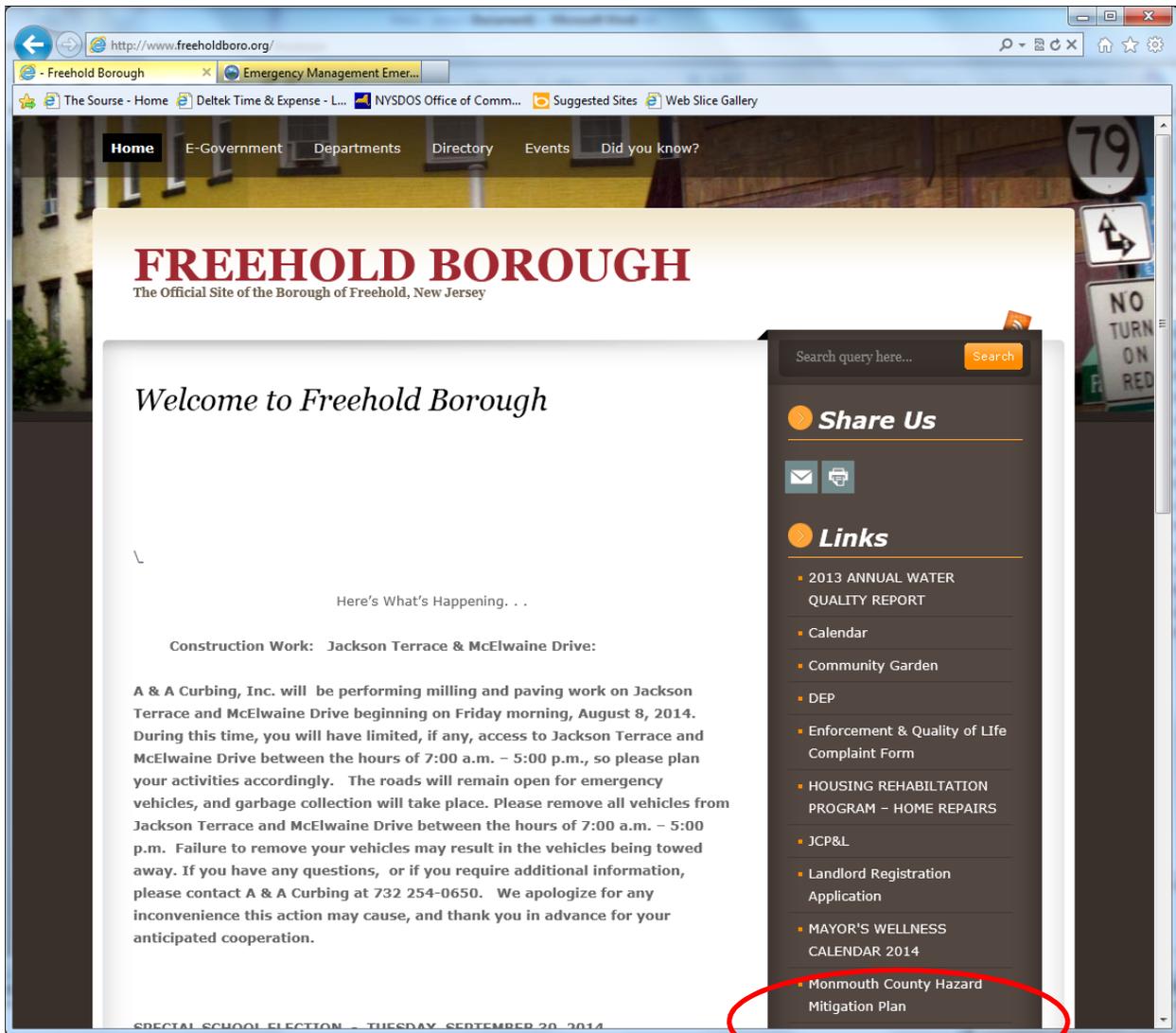
**NOTICE:**  
[Hazard Mitigation Grant](#)

**NOTICE:**  
[UPCOMING EVENTS IN FARMINGDALE](#)

**NOTICE:**  
[Solutions to Storm Water Pollution](#)  
[See this flyer for more information.](#)

**WANT ADS:**  
 The Borough has positions available for Substitute School Crossing Guards  
[Click here to apply or for more information](#)

**NOTICE:**  
 Dog and Cat licenses will be available for purchase beginning January 1, 2014 with a deadline of January 31 before penalties are imposed.



Freehold Township | All Hazards Mitigation Plan - Windows Internet Explorer

http://www.freehold.nj.us/all-hazards-mitigation-plan

monmouth county hazard mitigation plan update

Freehold Township | All Hazards Mitigation Plan

SEARCH

 **TOWNSHIP OF Freehold**

HOME NEWS & ALERTS E-GOV AROUND TOWN DEPARTMENT DIRECTORY TOWNHALL TOWNSHIP COMMITTEE GALLERY CALENDAR

RECREATION QUICK LINKS HEALTH

**Emergency Information** Aug 14, 2012

[Home](#) » [Townhall](#) » [Emergency Information](#) » [All Hazards Mitigation Plan](#)

**ALL HAZARDS MITIGATION PLAN**

All Hazards Mitigation Plan

The Freehold Township Office of Emergency Management is working with Monmouth County Emergency Management officials to develop a comprehensive Natural Hazards Mitigation Plan. The plan will identify Natural Hazards facing Freehold Township, as well as the entire county, and identify county and local mitigation efforts to reduce damage from future natural hazards.

Among the Natural Hazards identified in the plan are flooding, drought, extreme cold or heat, snow, ice, high winds and tornadoes. The completed plan will include risk assessment and a strategy for mitigating existing or anticipated problem areas.

To view a draft version of the plan, [Click Here](#) to visit the Monmouth County Emergency Management web site. While at the site, you also may complete a 15-question survey regarding Natural Hazards.

One Municipal Plaza · Freehold, NJ 07728 · 732.294.2000 · [Contact Us](#)

Site Map Terms of Use Privacy Policy

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Site Design - Andiamo Creative Company

start Freehold Township | ... [Inbox - anna.foley@...] Press Search Desktop 9:53 AM

http://www.hazletwp.org/news/index/10

News

The Source - Home Deltek Time & Expense - L... NYSDOS Office of Comm... Suggested Sites Web Slice Gallery

HOME GOVERNMENT DEPARTMENTS RECREATION CONTACT US

News Township of Hazlet

1766 Union Avenue Hazlet, NJ 07730

Questions, Comments & Suggestions

071114 Hazlet Swim Club  
Questions, Comments, Suggestions? Your Voice Counts!  
[Read More](#)

071114 Board of Education elections  
The May date to run for the Board of Education elections is July 28, 2014.  
[Read More](#)

Hazlet Township Fire District

071014  
After addressing the Hazlet Township Board of Fire Commissioners at their regular meeting on Wednesday July 9, the Mayor and Deputy Mayor disputed rumors and assured the Fire Commissioners that the Township Committee has no intention of dissolving any of our fire companies.  
[Read More](#)

JCP&L Vegetation Management Aerial Inspections This Week - July 7th - July 10th

071014  
JCP&L will be conducting vegetation management aerial inspections this week. Please be advised that Haverford Aviation will be the helicopter company assisting in the inspections on all JCP&L Transmission Lines, beginning July 8, 2014, through July 10, 2014, weather permitting.  
[Read More](#)

Swim Club Movie Night

071014  
Swim Club Movie Night  
Frozen  
July 11th at dusk  
[Read More](#)

JULY SWIM CLUB HOURS

063014

**EXTENDED HOURS**  
Friday: 11:00 AM - 1:00 PM  
Saturday & Sunday  
Normal hours only

JULY SWIM CLUB HOURS. [Click here](#) for printable schedule.  
[Read More](#)

Swim & Tennis Club ZipKrooz

062014  
Hazlet Swim & Tennis Club offers ZipKrooz. Join Now!  
[Read More](#)

**Hazard Mitigation Plan Update**

041014  
News Release Hazard Mitigation Plan Update  
[Read More](#)

Rehabilitation Study Area Determination of Need

032014  
Rehabilitation Study Area Determination of Need  
[Read More](#)

Bus Trip to NYC - Aladdin

http://www.hazletwp.org/news/view/389

Hazard Mitigation Plan Upd... Emergency Management Emer...

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HOME GOVERNMENT DEPARTMENTS RECREATION CONTACT US

News Township of Hazlet

1766 Union Avenue Hazlet, NJ 07730

04/01/14  
**Hazard Mitigation Plan Update**  
Monmouth County Sheriff's Office, OEM continues Hazard Mitigation Plan update process.  
[Click here](#) for full News Release.

Calendar of Events **16**

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Built by Wingman Planning

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[Monmouth](#)  
 click to read

Welcome To Highlands, NJ

**Moby's 1lb Lobster Dinner**  
 Tue-Wed-Thurs \$14.99

**SAVE MONEY. GO GREEN**  
 Make the switch to VERBENA today!

241  
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## Emergency Services

[Public Warning System](#)

Tone	Meaning	Sample
	School Closings	
	Fire Department	
	First Aid Squad	
	Imminent Severe Weather Conditions	
	Evacuation	
	Imminent Attack	

[National Flood Insurance Program \(NFIP\)](#)  
 Information for Residents and Property Owners

[Community Emergency Response Team](#)

[Monmouth County Multi-Jurisdictional Natural Hazard Mitigation Planning Project](#)

[New Jersey Office of Emergency Management](#)

[Hazard Mitigation Questionnaire](#)

[Medical Reserve Corps](#)

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3:10 PM  
 9/16/2014

http://www.holmdeloom.org

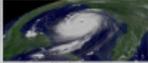
Holmdel Office of Emergen... Emergency Management Emer...

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# Holmdel Office of Emergency Management (OEM)

HOME EMERGENCY... CONTACT US ABOUT OEM DISASTER ASSISTANCE WINTER STORMS... MORE...

Click below for Disaster information...

 Hurricanes

 Severe Weather

 Thunderstorms/Lightning

 Winter Weather/Cold

Important - during an Emergency or natural disaster affecting Holmdel Township this page will be replaced by a page that will convey important public information and guidance from local officials. [Click Here to view...](#)

Learn all about Flood Insurance...

RESIDENCE>

COMMERCIAL>

FLOOD DAMAGE TIPS>

FEMA - Help after a Disaster...

APPLICANTS GUIDE>



Are You Prepared?

Know your risk: hurricanes,

**News updates....**

**MONMOUTH COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE**

Monmouth County and its 53 municipalities have been working on the update of the Monmouth County Multi-Jurisdictional Natural Hazard Mitigation Plan since August of 2012. The draft of the updated plan is expected to be released in the early fall. The first county wide plan was completed in 2009. The plan is a documented evaluation of the natural hazards to which a community is susceptible and the extent to which these events occur. It identifies an area's vulnerability to the effects of natural hazards and the goals, objectives and actions required to minimize future loss. Mitigation is preparation and planning now to reduce loss of life and property later, by lessening the impacts of future disasters.

This plan allows the county and the participating municipalities to apply for pre and post disaster mitigation grant funding through FEMA.

Once released, residents can revise the draft of the plan by visiting [www.monmouthsheriff.org](#), click on the OEM icon and select Hazard Mitigation Planning.

**Contact Us**

E-MAIL US>

- 732.688.6745 - Phone
- 732.362.7661 - Fax
- 732.946.4400 - PD
- 911 - Emergency

**CODE RED**

Sign up Now for CodeRed Emergency Messages...

Disaster Information...

- Chemical

3:12 PM 9/16/2014

http://www.holmdeloom.org

Holmdel Office of Emergen... Emergency Management Emer...

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Know your risk: hurricanes, severe weather & all disasters

Pledge to prepare | make a plan | get a kit

Forecasts: hurricanes & weather

Hurricanes cause flooding: get insured

Ready citizen corps

FEMA Blog

Useful Links...

- Holmdel Township...
- Holmdel School District...
- Holmdel Police Department...
- Holmdel First Aid Squad...
- Holmdel Fire & Rescue Company # 2...
- Monmouth County OEM...
- Monmouth County Health Dept...
- New Jersey OEM...
- Contact FEMA...
- Seasonal Flu Season...
- Centers for Disease Control...
- NJ Poison Control...
- NJ Dept. of Education...

Once released, residents can revise the draft of the plan by visiting [www.monmouthsheriff.org](#), click on the OEM icon and select Hazard Mitigation Planning.

**MONMOUTH COUNTY SHERIFF'S OFFICE, OEM CONTINUES HAZARD MITIGATION PLAN UPDATE PROCESS**



MIAMI GOLDEN SHERIFF

**NEWS RELEASE**

FOR IMMEDIATE RELEASE: CONTACT: MIAMI GOLDEN SHERIFF'S OFFICE  
March 1, 2014 989A6 70277402

**MONMOUTH COUNTY SHERIFF'S OFFICE, OEM CONTINUES HAZARD MITIGATION PLAN UPDATE PROCESS**

MIAMI GOLDEN SHERIFF'S OFFICE (MIAMI GOLDEN SHERIFF'S OFFICE) is pleased to announce that work continues on the Monmouth County Multi-Jurisdictional Natural Hazard Mitigation Plan update process. The plan is a documented evaluation of the hazards to which a community is susceptible and the extent to which these events occur. It identifies an area's vulnerability to the effects of natural hazards and the goals, objectives and actions required to minimize future loss. Mitigation is preparation and planning now to reduce loss of life and property later, by lessening the impacts of future disasters.

"On Thursday February 27, OEM had two working sessions as part of the ongoing Monmouth County Multi-Jurisdictional Natural Hazard Mitigation Plan update process. The first session included a presentation from the consulting firm URS Corporation, who was lead through a FEMA grant. The session provided municipalities with assistance on the development and documentation of the mitigation strategy. Monmouth County's mitigation strategy is designed to reduce and eliminate risks to people and property from natural hazard events. The next two mitigation strategy sessions will be held in the near future.

"As a result of September 2013, this plan and the information contained within it has been been revised," said Miami Golden, whose agency oversees the Office of Emergency Management. "Based on the needs and risks, the program identified by each town and Monmouth County will help shape the mitigation strategy for the next several years."

MIAMI GOLDEN SHERIFF'S OFFICE

Scribd

1 of 2

[Download this document as a pdf.](#)

Flash floods & Driving Don't Mix...

- Chemical
- Earthquake
- Fire
- Flood
- Hazardous Materials
- Heat
- Hurricane
- Nuclear
- Terrorism
- Thunderstorm
- Tornado
- Wildfire
- Winter Storm

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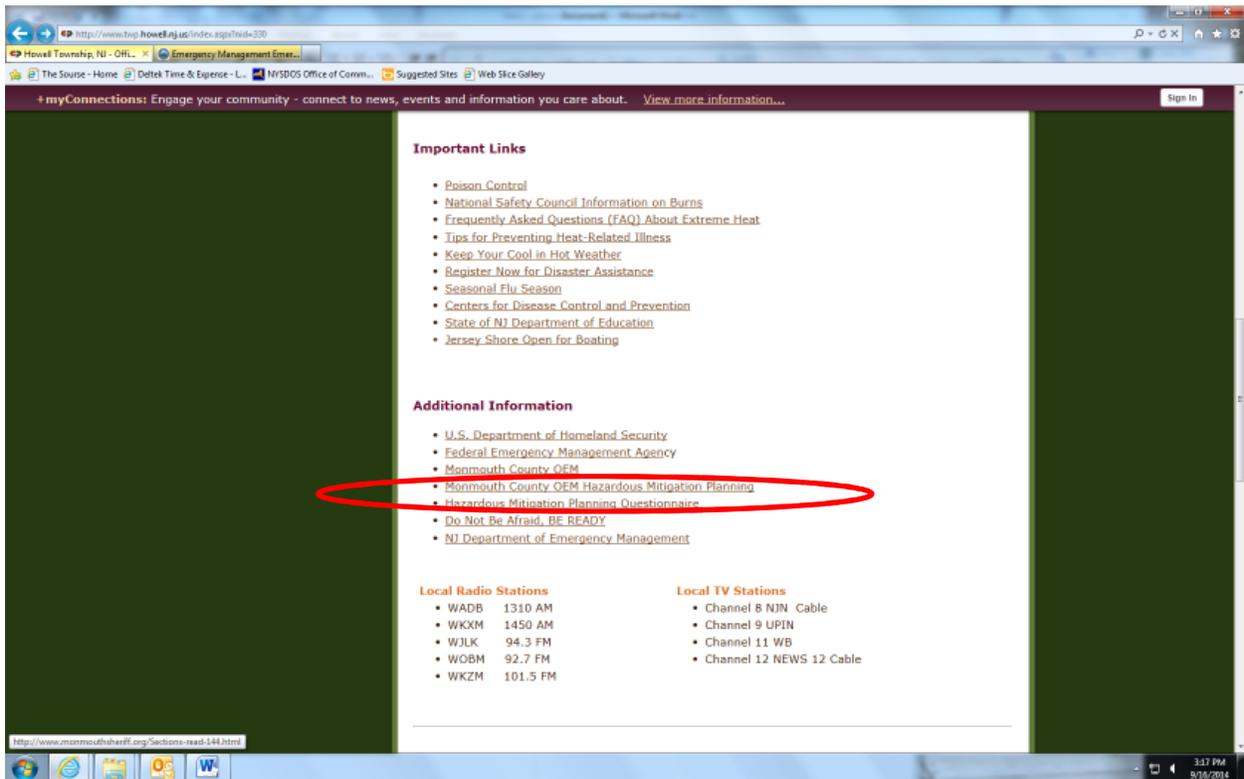
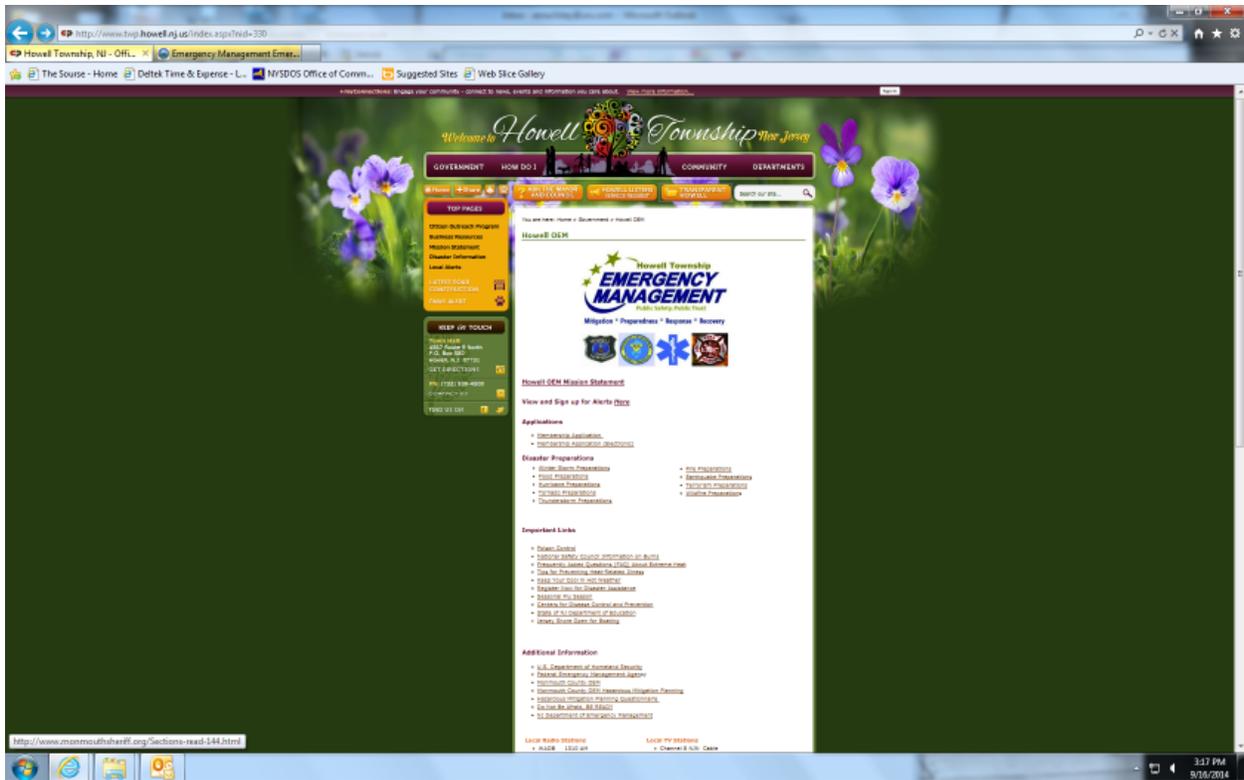
Google Search

**POWER OUT???**

Please call 1-888-LIGHTSS (1-888-544-4877) to report outages immediately, or report them online by clicking "report outage" on the website [www.firstenergycorp.com](#)

First Energy customer call centers will be fully staffed. The more people who call, the faster they can pinpoint the location where crews must be sent for repairs.

3:13 PM 9/16/2014



The screenshot shows a web browser window displaying the Borough of Interlaken's OEM Site. The browser's address bar shows the URL <http://www.interlakenboro.com/oem.html>. The page features a dark header with the Borough of Interlaken logo and name, a search bar, and a navigation menu with links for Mayor & Council, Departments & Offices, Boards & Committees, Emergency, Calendar, and Our Town. The main content area has a light background with a repeating pattern and contains the following text:

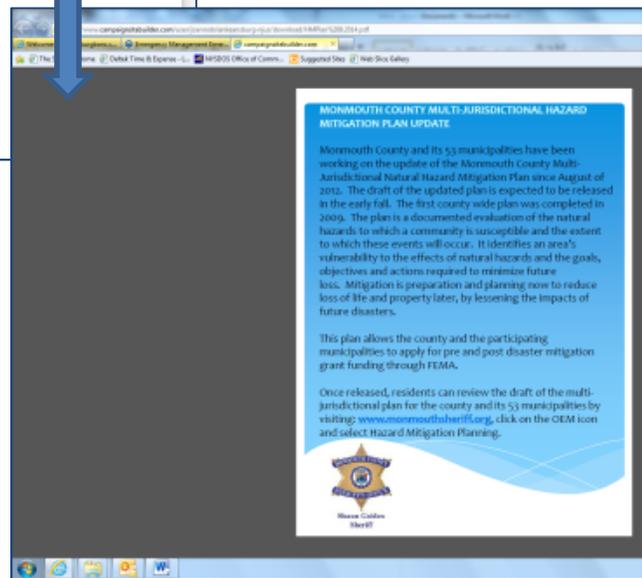
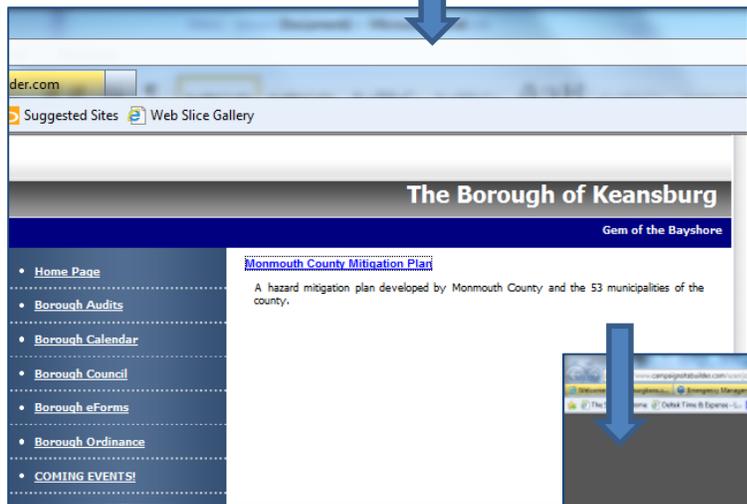
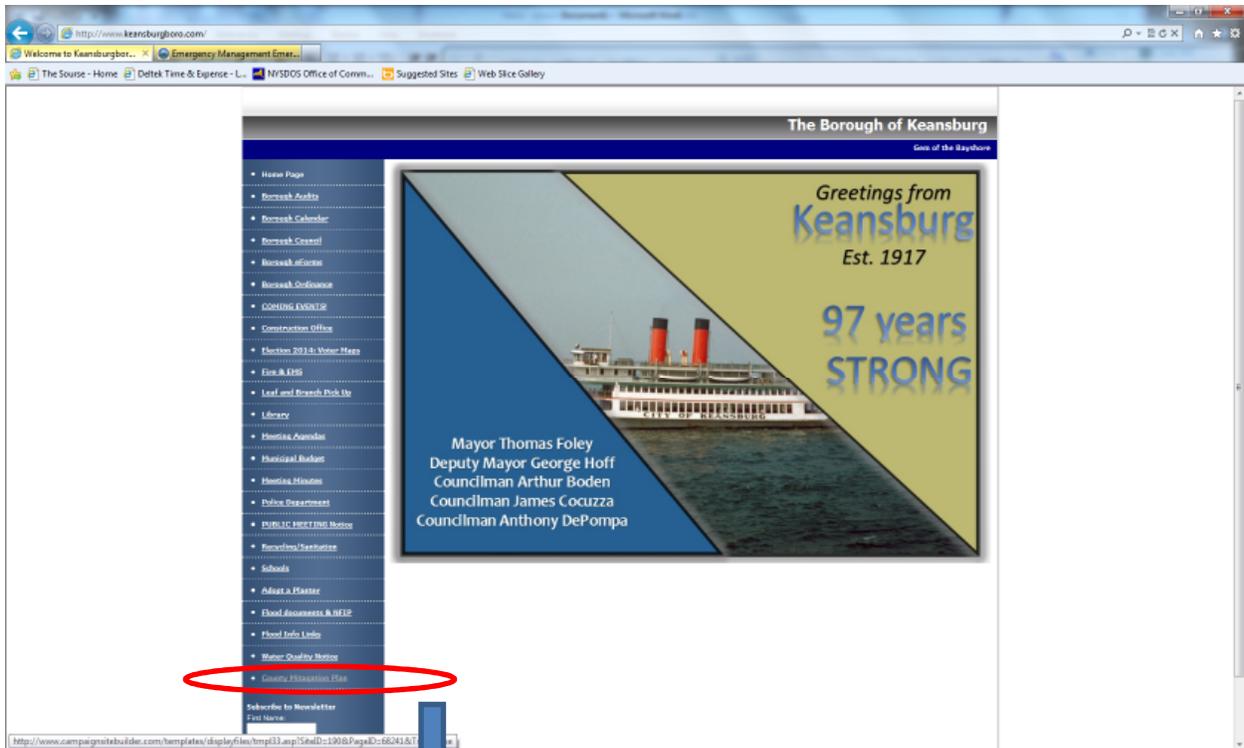
### OEM Site

Click on the link below to read up on valuable information collected and published by the Monmouth County Sheriff's Office regarding Disaster / Hazard Mitigation Planning. This site is periodically updated.  
<http://www.monmouthsheriff.org/Sections-read-144.html>

Two PDF download links are listed:

- [032014 MCSO News Release.pdf](#)  
Download File
- [072014 Monmouth County Fact Sheet.pdf](#)  
Download File

The footer of the page reads "Borough of Interlaken 2014". The Windows taskbar at the bottom shows the system clock as 3:18 PM on 9/16/2014.





- Home
- Mayor's Message
- Press Releases
- Government
- Public Safety
- Borough Departments
- Community Planning
- Boards, Committees & Volunteer Organizations
- Forms & Applications
- Advertisements/RFQ's/RFP and Bid Specs
- Residents
- Visitors
- Helpful Links
- Search Keyport
- Events/Local Happenings
- Keyport Bayfront Business Cooperative
- Budgets/Audits/Financial Statements
- Public Information and Service Announcements
- Hazard Mitigation Planning Updates
- Hurricane Recovery Resources
- Volunteer Opportunities and Resources
- Employment Opportunities

[www.monmouthsheriff.org/Sections-read-144.html](http://www.monmouthsheriff.org/Sections-read-144.html)

Link for: OGM1 Outreach to the Public and Other Stakeholders

Link for: MONMOUTH COUNTY FACT SHEET

MONMOUTH COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE



SHAUN GOLDEN/SHERIFF

[www.monmouthsheriff.org](http://www.monmouthsheriff.org)

### NEWS RELEASE

**FOR IMMEDIATE RELEASE:**  
March 3, 2014

**CONTACT: CYNTHIA SCOTT, PIO**  
**PHONE: 732-577-6613**

#### MONMOUTH COUNTY SHERIFF'S OFFICE, OEM CONTINUES HAZARD MITIGATION PLAN UPDATE PROCESS

Freehold: Sheriff Shaun Golden is pleased to announce that work continues on the Monmouth County Sheriff's Office, Office of Emergency Management (OEM) Hazard Mitigation Plan update process. The plan is a documented evaluation of the hazards to which a community is susceptible and the extent to which these events will occur.

On Thursday February 27, OEM held two workshop sessions as part of the ongoing Monmouth County Multi-Jurisdictional Natural Hazard Mitigation Plan update process. The work sessions included a presentation from the consulting firm URS Corporation, who was hired through a FEMA grant. The sessions provided municipalities with assistance on the development and documentation of the mitigation strategy. Monmouth County's mitigation strategy is designed to reduce and eliminate risks to people and property from natural hazard events. The need for mitigation strategies has increased due to the increase in natural hazard occurrences.

"As a result of Superstorm Sandy, this plan and the information contained within it has never been more important," said Sheriff Shaun Golden, whose agency oversees the Office of Emergency Management. "Based on the hazards and risks, the projects identified by each town and Monmouth County will help shape the mitigation planning for the next several years."

#### MONMOUTH COUNTY SHERIFF'S OFFICE, OEM CONTINUES HAZARD MITIGATION PLAN UPDATE PROCESS

The current Hazard Mitigation Plan was adopted by Monmouth County and municipalities in 2009. Under FEMA guidelines it is required to be updated every five years. The County has taken the lead on the overall planning process to guide the fifty-three municipalities in an effort to meet the FEMA requirements and therefore be able to officially adopt the plan.

Upon completion, Monmouth County OEM will submit the plan to New Jersey OEM and FEMA for final approval. Once approved by those two agencies, each municipality will be required to formally adopt the plan. They will then continue to be eligible for pre and post disaster mitigation grant funding. The County anticipates the draft plan will be available and ready for public comment by late spring of 2014. It will then be posted to the Office of Emergency Management's website.

Please do not hesitate to contact this office with any questions.

Thank you!

Margaret Murnane Brooks OEM  
Deputy Emergency Management Coordinator  
Monmouth County Sheriff's Office  
Office of Emergency Management  
300 Halls Mills Road  
Freehold, New Jersey 07728  
Office: 732-431-7400 x5798  
Fax: 732-409-7532  
Web: [www.MonmouthSheriff.org](http://www.MonmouthSheriff.org)

- News**
- 9/16/2014: Special Council Meeting
  - 9/18/2014: Keyport Unified Planning Board Special Meeting - CANCELED
  - 11/1/2014: Free Rabies Clinic

http://lakecomonj.org/bulletin\_board.htm

Lake Como - New Jersey - ... x Emergency Management Emer...

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**Borough Of Lake Como** home about contact



Boro Office Directory Business Directory Police Dept Calendar Links

### Bulletin Board

**Attention all college bound students and parents of college bound students**

The Online College Database is focused on providing prospective post-secondary students and families the information they need at no cost to make an informed decision about where to attend college. Our website has published easy to digest information on all the 64 colleges in New Jersey, including the 41 four-year colleges and the 23 two-year schools. Important factors such as tuition, enrollment size, campus setting, male / female ratio, student to faculty ratio, ROTC availability and acceptance rate are published for each college. Our data is sourced from U.S. federal government databases include the National Center for Education Statistics (NCES) and the Integrated Postsecondary Education Data System (IPEDS), ensuring the integrity of our information is the highest caliber. This information, combine with our easy to use interface with Google Maps integration, provides a helpful resource for prospective students and families, at no cost. [CLICK HERE TO ENTER](#)

<b>Children's Health Fair</b> Sept. 14, 2012 11:00 to 2:00 pm <a href="#">CLICK HERE FOR MORE INFO</a>			<b>CODE RED - WARNING Phone Scam Alert</b> Posted 4/4/2014
An Open Letter to the Residents of Lake Como from Chief Fred Hope <a href="#">Click Here</a>	All Water Dept. Notices <a href="#">CLICK HERE FOR DETAILS</a> Water Quality Report 12-31-2013 <a href="#">Click Here</a> (Posted 6/3/2014)	Information about the Cleaning and Lining Project - <a href="#">Click Here</a>	
Information for possible funding for residents who need financial assistance with rebuilding Coastal Habitat for Humanity and SBA fiver 2013	Monmouth County Is Changing The Tax Assessment Process In Monmouth County <a href="#">Click Here For More Info</a>	Water Main Cleaning and Cement Lining Project <a href="#">Click Here For More Info</a> (Posted 8/7/14)	Monmouth County Multi-Jurisdictional Hazard Mitigation Plan <a href="#">Click Here</a> (updated 8/12/14)
		MONMOUTH COUNTY SHERIFF'S OFFICE, OEM CONTINUES HAZARD MITIGATION PLAN UPDATE PROCESS <a href="#">Click Here</a>	



# Borough of Little Silver

480 Prospect Avenue, Little Silver, NJ 07739  
Phone: 732-842-2400  
Fax: 732-219-0581

Office Hours: 8:00am - 4:00pm Monday through F

Emergency Services

Borough Directory

Departments

Borough Calendar

- Home
- Mayor & Council
- Mayor's Message
- Borough Code
- Minutes & Agendas
- Newsletter
- Budgets
- Municipal Court
- Bid Notices - RFPs
- Forms
- Pay Taxes Online
- Community
- Useful Links

## Monmouth County Multi-Jurisdictional Natural Hazard Mitigation Plan

*Monmouth County and its 53 municipalities have been working on the update of the Monmouth County Multi-Jurisdictional Natural Hazard Mitigation Plan since August of 2012. The first county wide plan was completed in 2009. The plan is a documented evaluation of the natural hazards to which a community is susceptible and the extent to which these events will occur.*

The plan identifies an area's vulnerability to the effects of natural hazards and the goals, objectives and actions required to minimize future loss. Mitigation is preparation and planning now to reduce loss of life and property later, by lessening the impacts of future disasters.

This plan allows the county and the participating municipalities to apply for pre and post disaster mitigation grant funding through FEMA.

The Draft Monmouth County Multi-Jurisdictional Hazard Mitigation Plan will be available for review beginning October 17, 2014. Residents can view the draft plan for the county and its 53 municipalities by visiting: [www.monmouthsheriff.org](http://www.monmouthsheriff.org), click on the OEM icon and select Hazard Mitigation Planning.



0



http://www.locharbournj.us/locharbournews.html

Loch Arbour News

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# Village of Loch Arbour

Home News FAQs Services Agenda & Minutes Budget Commissioners Calendar Ordinances Links E-Mail

## News

### KASSIN AGREEMENT

To view the Kassin agreement mentioned in the correspondence you have or will receive, click [here](#).

### UPDATED OFFICE HOURS

The office hours for the Village office have been updated to 9:00 AM to 3:00 PM on Monday, Tuesday and Wednesday and 9:00 AM to 4:00 PM on Thursday and Friday.

### VILLAGE BEACH CLUB

Season badge applications will be available for downloading beginning on February 20, and may be returned to the Village office no earlier than March 1 (if mailed) or March 8 (if hand-delivered). SEASON BADGES ARE ONLY BEING SOLD AT THE VILLAGE OFFICE, 550 MAIN STREET. NO SEASON BADGES WILL BE SOLD AT THE VILLAGE BEACH CLUB.

The Village Beach Club will open for the season (weekends only) on Saturday, May 24, 2014. Pre-ordered season badges will be available for pick-up between 10:00 AM and 5:00 PM, weather permitting, at the Gatehouse.

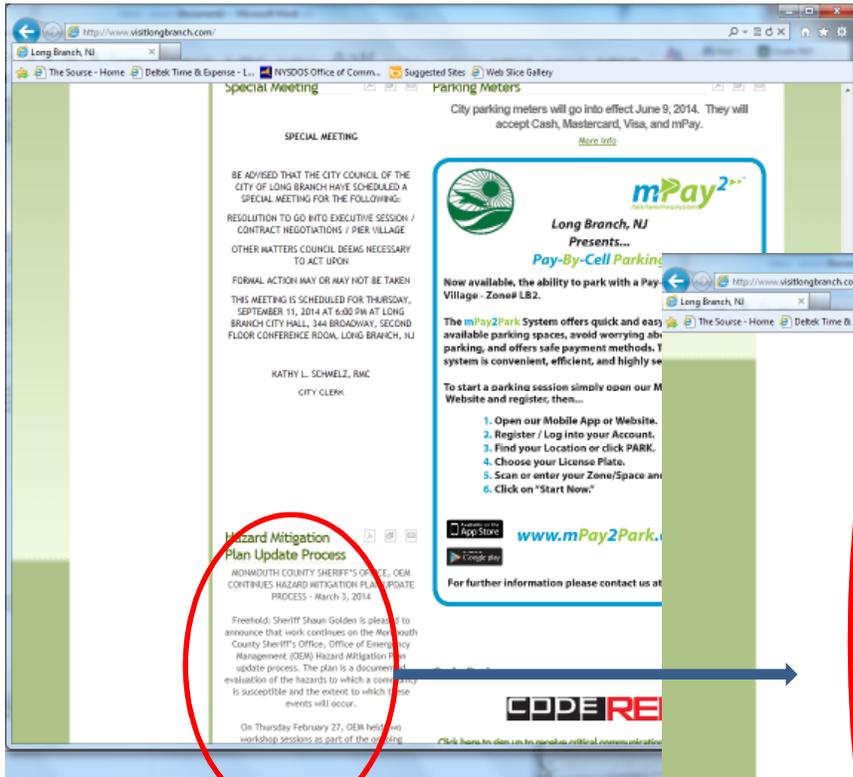
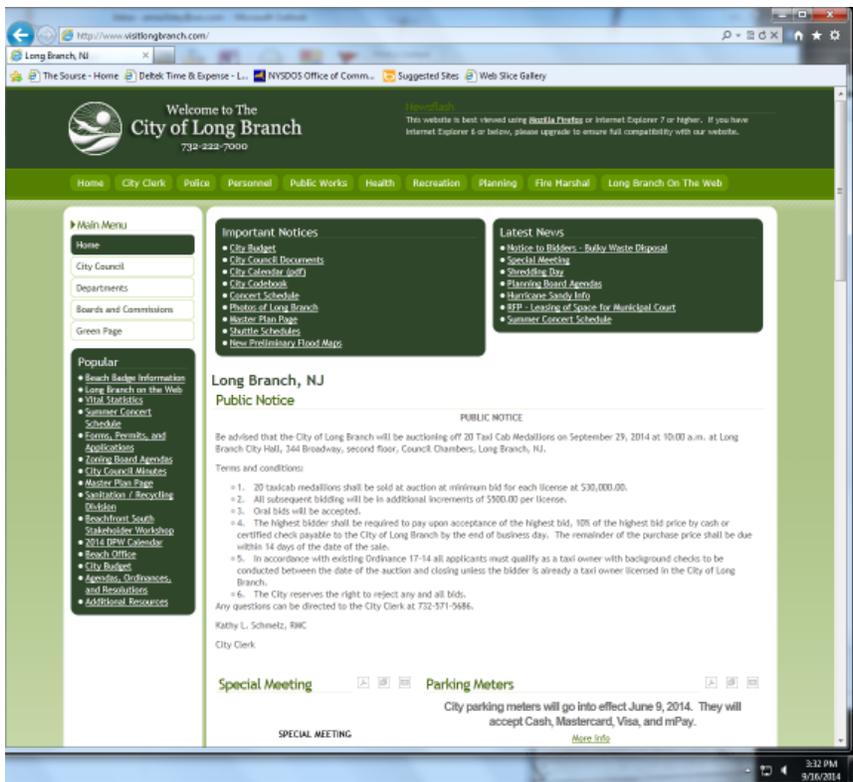
To download the application, click [here](#).

### IMPORTANT INFORMATION

Please review the following documents for information on the Monmouth County Hazard Mitigation Plan Update.

[News Release](#)  
[Monmouth Cty Fact Sheet](#)

3:30 PM  
5/16/2014





- HOME
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- DEPARTMENTS
- COMMITTEES
- NEWS & EVENTS
- RESIDENTS
- CONTACT US



NEWS & EVENTS

## Community News

### Hazard Mitigation Plan

Work continues on the Monmouth County Office of Emergency (OEM) Hazard Mitigation Plan update process. The plan is a documented evaluation of the hazards to which a community is susceptible and the extent to which these events will occur.

The Monmouth County OEM held several workshop sessions as part of the ongoing Monmouth County Multi-Jurisdictional Natural Hazard Mitigation Plan update process. The work sessions included a presentation from the consulting firm URS Corporation, who was hired through a FEMA grant. The sessions provided municipalities with assistance on the development and documentation of the mitigation strategy. Monmouth County's mitigation strategy is designed to reduce and eliminate risks to people and property from natural hazard events. The need for mitigation strategies has increased due to the increase in natural hazard occurrences.

The current Hazard Mitigation Plan was adopted by the Monmouth County and municipalities in 2009. Under FEMA guidelines it is required to be updated every five years. The County has taken the lead on the overall planning process to guide the fifty-three municipalities in an effort to meet the FEMA requirements and therefore be able to officially adopt the plan.

Upon completion, Monmouth County OEM will submit the plan the New Jersey OEM and FEMA for final approval. Once approved by those two agencies, each municipality will be required to formally adopt the plan. They will then continue to be eligible for pre and post disaster mitigation grant funding. The County anticipates the draft plan will be available and ready for public comment by summer 2014. It will then be posted to the Office of Emergency Management's website.

If you have any questions regarding Manalapan Township's participation in the Multi-Jurisdictional Natural Hazard Mitigation Plan update process, please contact James Winckowski, PE, at 732-462-7400x180 or by email [jwinckowski@cmeusa1.com](mailto:jwinckowski@cmeusa1.com).

- Potholes
- Tax Bill information
- Master Plan Amendment
- Traffic Impact Study
- Manalapan Registering Persons with Special Needs for Emergency Planning & Response
- 2013 Manalapan Township Volunteer Application
- A Message From the Manalapan Township Police Department
- 2013 Budget
- JCP&L Announce Launch of New Outage Information on Website
- Information on the Monmouth County Natural Hazard Mitigation Plan Update
- Manalapan Township Television Network (MTTN)
- Pet Safety
- JCP&L Warns Customers About Possible Scams
- Commuter Parking - Monmouth Heights Lot on Ryan Road
- Assessment Demonstration Program
- Cold Weather Tips
- 2014 Recycling Schedule
- Notice to Pet Owners
- Englishtown-Manalapan First Aid Squad Agreement

https://www.facebook.com/ManasquanBorough/posts/372292632912817

Manasquan is in the proces... x

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 **Borough of Manasquan**  
March 3 · 🌐

Manasquan is in the process of conducting a 5-year update of our hazard mitigation plan. This plan describes the hazards that can occur in our community, and presents actions and projects that can be undertaken to reduce our risks.

Please view this hazard mitigation plan update fact sheet:  
<http://www.monmouthsheriff.org/files/oem-mitigation/Mitigation-FactSheetMay2013.pdf>

Please visit the Monmouth County Hazard Mitigation Planning website at:  
<http://www.monmouthsheriff.org/Sections-read-144.html>

We welcome any and all input during this process. Please direct all question, comments, requests for meeting minutes or draft plan notices, and any other feedback via email to: [oem@manasquan-nj.com](mailto:oem@manasquan-nj.com)

 **Monmouth County Sheriff's Office**

MONMOUTH COUNTY SHERIFF'S OFFICE, OEM CONTINUES HAZARD MITIGATION PLAN UPDATE PROCESS

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"As a result of Superstorm Sandy, this plan and the information contained within it has never been more important," said Sheriff Shaun Golden, whose agency oversees the Office of Emergency Management. "Based on the hazards and risks, the projects identified by each town and Monmouth County will help shape the mitigation planning for the next several years."

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Like · Comment · Share

 Kim Slaboda likes this.

http://www.manasquan-nj.com/sandy\_20130921.html

Super Storm Sandy Posting... x

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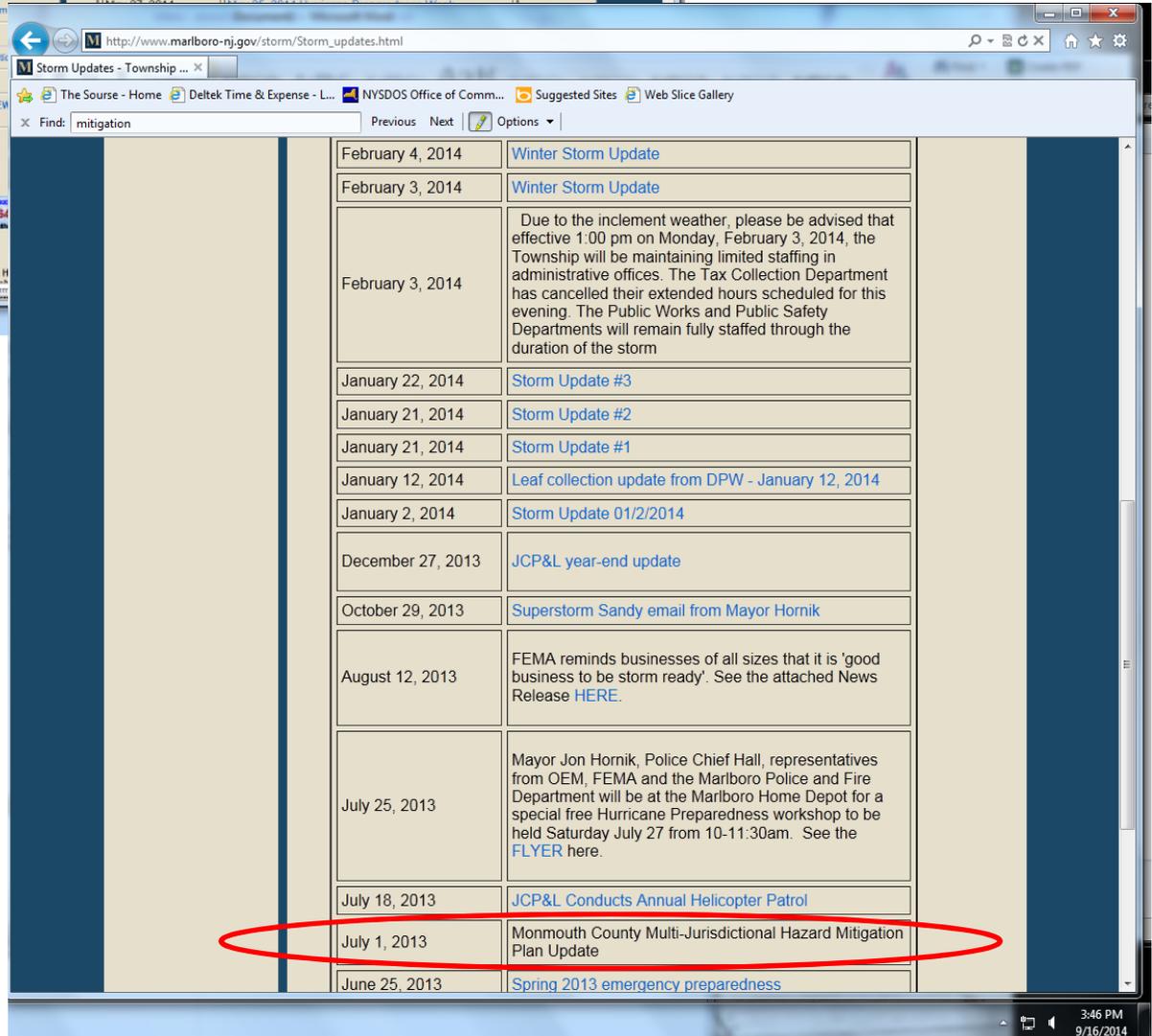
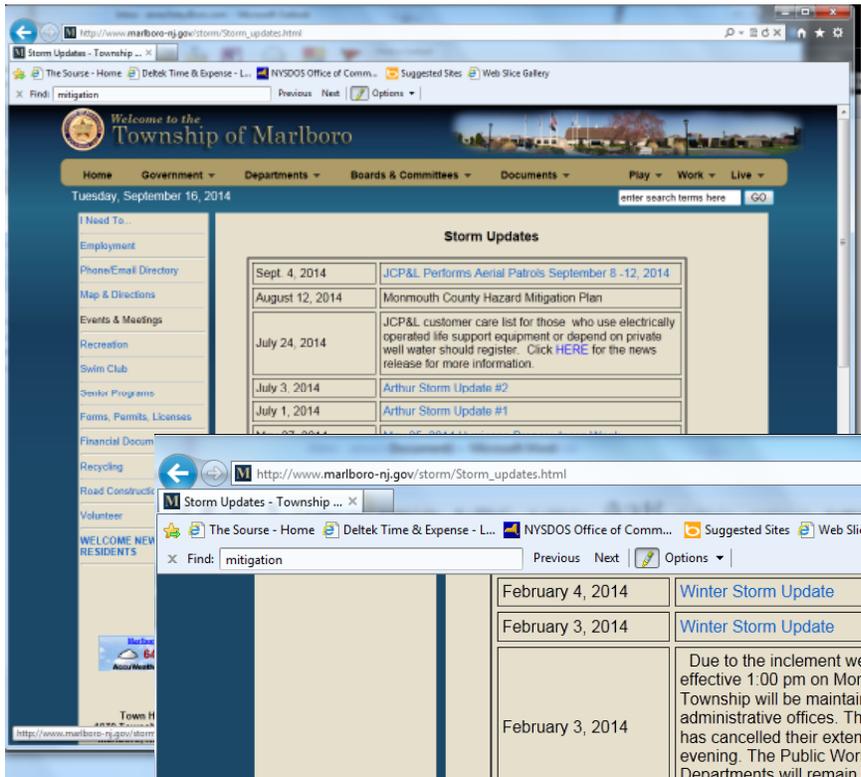
   

**BOROUGH OF MANASQUAN**  
MONMOUTH COUNTY, NEW JERSEY

About Manasquan Government Community Directories Home

Topic
<a href="#">Paving the Way for Rebuilding</a>
<a href="#">Christie Administration Launches \$40 Million Landlord Incentive Program To Assist Sandy-Impacted Homeowners And Renters</a>
<a href="#">Stronger NJ Business Grant Program</a>
<a href="#">What You Need to Know About "ReNew Jersey Stronger"</a> <a href="#">Governor Announces Launch of "ReNew Jersey Stronger" Housing Assistance Program \$780 Million Available for Homeowners Affected by Superstorm Sandy</a>
<a href="#">Be Sure to Prepare Before Clean-up and Repair</a>
<a href="#">Distributing the Resources New Jersey Needs for the Rebuilding Process</a>
<a href="#">Mold Guidance for New Jersey Residences Recovering From Superstorm Sandy</a>
<a href="#">Super Storm Sandy - Assistance Available</a>
<a href="#">SANDY Wellness Program</a>
<a href="#">HAVE YOU SEEN THIS VEHICLE IN MANASQUAN? IF SO, READ THIS...</a>
<a href="#">Habitat for Humanity Application</a>
<a href="#">FEMA Regional II Coastal Outreach Video - A video done prior to Hurricane Sandy with video of Manasquan's Beaches</a>
<a href="#">FEMA Base Flood Elevation Maps</a>
<a href="#">Reminder - Storm Debris Removal</a>
<a href="#">Code Department Permit Guidelines</a>
<a href="#">Hazard Mitigation Plan Update</a>
<a href="#">Borough of Manasquan Emergency Protection and Recovery Plan</a>

http://www.monmouthsheriff.org/Sections-read-144.html



http://www.matawanborough.com/matawan/Announcements/Announcement%20Archive/Hazard%20Mitigation%20Plan%20Public%20Outreach.pdf

matawanborough.com x Emergency Management Emer...

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## Borough of Matawan Office of Emergency Management

150 Main Street  
Matawan, NJ 07747  
(732) 290-2024

Richard Michitsch  
1<sup>st</sup> Deputy Coordinator

Sgt. Thomas J. Falco Jr.  
Coordinator

Timothy Clifton  
2<sup>nd</sup> Deputy Coordinator

May 2013

The Matawan Office of Emergency Management is actively involved in the process of updating the *Monmouth County Multi-Jurisdictional Natural Hazard Mitigation Plan*. The following links offer information about the plan and provide for residents to complete a fifteen question survey which will assist in the update process.

<http://www.monmouthsheriff.org/Sections-read-144.html>

<http://www.monmouthsheriff.org/files/oem-mitigation/Mitigation-FactSheetMay2013.pdf>

<https://co.monmouth.nj.us/oemsurvey.asp>

**Community Announcement**  
**Hazard Mitigation Plan Information Session May 22**

Residents are invited to learn more about the Multi-Jurisdictional Natural Hazard Mitigation Plan at a public information session to be held on Wednesday, May 22 from 7:30-9:00 pm at the Rave Movie Theater located at 2821 Rt. 35 in Hazlet. The plan, which is currently in the process of being updated by Monmouth County and participating municipalities, is a documented evaluation of the hazards to which communities are susceptible. This public session is hosted by the Bayshore Emergency Management Association, a consortium of Emergency Managers from Atlantic Highlands, Aberdeen, Hazlet, Highlands, Holmdel, Keansburg, Keyport, Matawan, Middletown, Union Beach, and Sea Bright. Visit [monmouthsheriff.org](http://www.monmouthsheriff.org) for more information on the plan.

Browser window showing the website <http://www.middletonnj.org/content/oem.html>. The page title is "Middleton Township, NJ".

The website header includes the slogan "the Biggest Small Town in New Jersey" and "MIDDLETOWN Township, New Jersey". Navigation links include: DEPARTMENTS | FORMS/RESOURCES | REGISTER WITH MIDDLETOWN | ONLINE SERVICES | GOVERNMENT | DIRECTORY | CONTACT US.

The main content area is titled "Emergency Management" (Home > Emergency Management). It lists the OEM Coordinator Charles W. Rogers III, contact information (52 Kanes Lane, Middletown, NJ 07748; Phone: 732-615-2129; Fax: 732-615-9104), and office hours (Monday through Friday, 9:00 a.m. - 3:00 p.m.).

The page describes the Emergency Management's role in implementing the all-hazard Emergency Operations Plan and lists several preparedness activities: Get Ready Middletown, Family Preparedness, Evacuation Routes, Special Needs Registry, CERT, and RACES.

A red circle highlights the "Multi-Jurisdictional Hazard Mitigation Plan" link, which includes the following details:

- Middleton Township is participating in the update to this plan.
- Hazard Mitigation Planning
- Plan Update Fact Sheet
- Natural Hazards Survey for Residents

Other sections on the page include "Sandy Recovery" with a "Click for Related Content" button, "Emergency Management Notices" (listing Coastal Flood Advisory 9/8/14, State Marina Dredging Site Prep To Begin This Week (5/19/14), Coastal Flooding/Heavy Rain Advisories, and NFIP Deadline Approaches: Webinar March 26), and "Emergency Management News" (listing Monmouth County Multi-Jurisdictional Plan Update, \$1.2 million In SHRAP Funds Go To Sandy Victims In Middletown, and Port Monmouth Flood Control Project Begins This Summer).

The browser's taskbar shows the system time as 3:49 PM on 9/16/2014.

Office of Emergency Management - of Millstone Township - Windows Internet Explorer

http://www.millstone.nj.us/oen.html

monmouth county hazard mitigation plan update

Office of Emergency Management - of Millstone Town...



**TOWNSHIP OF  
MILLSTONE**

<p><b>MUNICIPAL BUILDING</b> 470 STAGE COACH ROAD MILLSTONE TOWNSHIP, NJ 08510 732-446-4249</p>	<p><b>MUNICIPAL COURT</b> 215 MILLSTONE ROAD MILLSTONE TOWNSHIP, NJ 08510 732-446-6219</p>
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About Millstone - Government - Community - Calendars - Home

## Office of Emergency Management

The Office of Emergency Management meets the third Monday of each month at 7:00pm. If you would like to join, please contact Mike Kuczynski at 732-446-2375. E-mail: [m-kuczynski@millstone.nj.us](mailto:m-kuczynski@millstone.nj.us)

**THREAT ADVISORY**

**ELEVATED** ■ ■ ■ ■

Significant Risk of Terrorist Attack

**New Jersey Office of Emergency Management, along with FEMA, and the MT OEM encourages the public to use this event as a reminder that everyone should establish an emergency preparedness kit and emergency plan for themselves, their families, communities, and businesses. Visit [www.ready.nj.gov](http://www.ready.nj.gov) for more information about how to prepare for and stay informed about what to do in the event of an actual emergency.**

[Get Disaster information for specific topics](#)  
[Monmouth County Multi-Jurisdictional Natural Hazard Mitigation Planning Project](#)  
[Monmouth County OEM Hazard Mitigation](#)  
[U.S. Department of Homeland Security](#)  
[Federal Emergency Management Agency](#)  
[New Jersey OEM](#)  
[Monmouth County OEM](#)  
[Do Not Be Afraid. BE READY](#)

start Office of Emergency ... [Inbox - enns.foles@...] Press Documents - Microsof... Search Desktop 9:55 AM

http://monmouthbeach.us/

Home Page for the Boroug... x

The Source - Home | Deltek Time & Expense - L... | NYSDOS Office of Comm... | Suggested Sites | Web Slice Gallery



**The Borough of Monmouth Beach**  
New Jersey

Borough Hall  
22 Beach Road  
Monmouth Beach, NJ 07750  
732.229.2204

**Home Directory**

- Administration**
  - [Hazard Mitigation Plan](#)
- Mayor and Commissioners
- Boards, Commissions & Committees
- Agenda and Minutes
- Budget
- Ordinances
- Resolutions

**Departments**

- Administration
- Animal Control
- Bathing Pavillion
- Construction Department
- Clerk
- Code Enforcement
- Court
- Cultural Center
- Emergency Management
- EMS
- Finance
- Fire Department

**WELCOME**

If you have difficulty finding something please contact us for further assistance.

- [Hazard Mitigation Plan](#)
- [NJ FEMA Disaster Recovery Centers](#)
- [Housing Resources through the state](#)
- [Flu Clinic 10/8/14](#)

**Radio**

**Monmouth Beach Radio**  
**WPMG - 1640 AM**

- [2014 Pet License](#)
- [Borough Ordinances](#)
- [Tax Appeals, Tax Records, Property Records](#)

**GovONLINE**  
Complete Solution for  
**Monmouth Beach Online Applications**  
GovOnline Bathing Pavilion Application  
**Enter Here**

**AFFECTED BY A RECENT DISASTER?**  
Apply for assistance from the U.S. Small Business Administration:  
- disaster loans for homeowners & renters  
- disaster loans for non-profits & businesses of ..

The next Channel Club Hearing

https://www.govonline.us.com/NJ/monmouthbeach/Public

http://www.neptunecitynj.com/office-of-emergency-mgmt.html

Office of Emergency Mgmt ... X Emergency Management Emer...

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**Borough of Neptune City**

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### Office of Emergency Management

**Useful Links:**

- [Monmouth County Hazardous Mitigation Plan](#)
- [Monmouth County Office of Emergency Management](#)

NOAA Weather for Neptune City | National Hurricane Center

NJ Office of Emergency Management

Family Communication Plan (For Adults)  
Family Communication Plan (For Kids)



**Sign Up!**

**Emergency Notification Registry**

First, follow the easy-to-use instructions in "Your Family Emergency Plan," available as pdf from the American Red Cross.

If you have Disabilities or other Special Needs:



SEARCH

Follow us on:  

## Emergency Services

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan

"In 2009 Neptune Township joined with the County of Monmouth and our neighboring communities to develop the "Monmouth County Multi-Jurisdictional Hazard Mitigation Plan".

Natural hazards have the potential to cause property loss, loss of life, economic hardship, and threats to public health and safety. While an important aspect of emergency management deals with disaster recovery those actions that a community must take to repair damages and make itself whole in the wake of a natural disaster an equally important aspect of emergency management involves hazard mitigation. Hazard mitigation measures are efforts taken **before a disaster happens** to lessen the impact that future disasters of that type will have on people and property in the community. They are things you do today to be more protected in the future.

FEMA requires regular updates of approved Hazard Mitigation Plans. The update process has begun in Monmouth County. Part of this process includes public outreach. The Township's Office of Emergency Management is providing this link to the County's Hazard Mitigation Plan Update page as part of the public outreach process.

Neptune OEM will be conducting a number of public presentations on the Hazard Mitigation Plan as the update process continues.

[Click here](#) for the link

*Source: Vito Gadaleta, Assistant Business Administrator*

---

#### OEM All Hazards Plan-

An Emergency Preparedness Guide for Residents

Please [click here](#) for the slide show (large file)

---

#### SNOW EMERGENCY INFORMATION

http://www.oceantwp.org/emergencymanagement

Ocean Township, Monmou... x

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Go >

**Township of Ocean**  
Monmouth County NJ

*The Community of Gracious Living*

About Ocean Township Housing, Building & Zoning Recreation & Human Services Public Works Police **Departments**

Administration  
Clerk  
Code Enforcement  
Community Development  
Emergency Management  
Finance  
Human Services/Recreation  
Municipal Court  
Police  
Public Works

Emergency Management > Organization

PRINT EMAIL RSS

### Office of Emergency Management

#### Organization

The Emergency Management Act of 1989, originally known as the Civil Defense Act of 1942, makes it possible to coordinate resources, manpower, equipment and financial assistance from county, state and federal agencies in the event of a local catastrophe. The State Office of Emergency Management issues guidelines, in the form of a checklist, for development of county and municipal Emergency Operations Plans. These plans are reviewed and updated every four years.



An Emergency Operation Plan describes the organization, responsibilities, capabilities and procedures for municipal response during an emergency. An emergency is an unusual incident by natural or human causes that is too large to be handled by regular municipal services. A natural disaster includes hurricanes, flood or snow storms. An unnatural disaster could be a plane crash, a train derailment, chemical spill or fire. The Emergency Operation Plan is initiated by the Director of Emergency Management or his Deputies, who notifies the county office of Emergency Management if an emergency or disaster overwhelms local emergency capabilities (police, fire

Additional Links

- Emergency Management
- Laws & Directives
- Monmouth County OEM
- Plan & Prepare
- CERT
- Links
- Staff
- Prevention/Special Information
- All Hazard Mitigation Plan**

http://www.monmouthsheriff.org/Sections-read-144.html

The Borough of Oceanport - Windows Internet Explorer

http://www.oceanportboro.com/index.asp?hd=hd\_01&fr=fr\_01&nu=nu\_emergency/pg=emergency\_01

monmouth county hazard mitigation plan update

The Borough of Oceanport



THE BOROUGH OF  
**Oceanport**  
NEW JERSEY



home mayor & council emergency info departments committees community organizations contact us useful links calendars

### emergency information

**Report a Power Outage**

Emergency Information Home

Snow Ready Plan

Map of Snow Plowing Routes

Flood Protection & Storm Safety

Preparing Your Pets for Emergencies

**External Links**

- Federal Emergency Management Agency (FEMA)
- National Weather Service, Philadelphia/Mount Holly
- Oceanport Tide Information
- Monmouth County Emergency Management-Hazard Mitigation**
- National Flood Insurance Program
- NJ Office of Emergency Management

**In the Event of a Police, Fire or First Aid Emergency, Dial 911**

To request information during emergencies such as storms, email requests to [StormReady@oceanportboro.com](mailto:StormReady@oceanportboro.com)

**EMERGENCY ALERTS and NEWS** close ▲

 **Water Supply Disruption to Oceanport- Updates**

UPDATE 7/12/2012 State of emergency has been rescinded. Monmouth County Outdoor Water Restrictions Eased; Odd/Even Lawn Watering with Sprinkler Systems Allowed Issue Date: 07-12-2012 Monmouth County customers can begin to water their lawns using sprinklers while remaining on a schedule of odd/even watering and only during the hours of 5 a.m. to 9 a.m., and 5 p.m. to 9 p.m. Alert Notifications PWS(D) Monmouth County Outdoor Water Restrictions Eased; Odd/Even Lawn Watering with Sprinkler Systems Allowed Issue Date: 07-12-2012 Monmouth County Outdoor Water Restrictions Eased; Odd/Even Lawn Watering with Sprinklers Allowed Monmouth County Outdoor Water Restrictions Eased; Odd/Even Lawn Watering with Sprinkler Systems Allowed With operating conditions at New Jersey American Water's Swimming River Water Treatment Plant stabilized and close to normal, the company announced that Monmouth County customers can begin to water their lawns using sprinklers while remaining on a schedule of odd/even watering and only during the hours of 5 a.m. to 9 a.m., and 5 p.m. to 9 p.m. Temporary repairs at our Swimming River Water Treatment Plant were completed last weekend and over the last few days, our ability to provide water to our customers in Monmouth County has been restored," said Stephen P. Schmitt, vice president of operations for New Jersey American Water. "We thank our customers for their cooperation and patience as we worked to recover from this event. The odd/even watering will continue for the foreseeable future as we move forward with plans toward a permanent fix at our water treatment plant. Water restrictions were necessary when a bridge holding

start The Borough of Ocea... [Inbox - anno.files@... Press 061412.docx - Micros... Search Desktop 10:23 AM

http://www.redbanknj.org/content/emergency-management.html

redbanknj.org | Emergency ...

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**Red Bank** borough of New Jersey

home calendar directory faq's forms citizen signup

SEARCH

## Emergency Management

**Citizen Signup**

Stay connected to Red Bank by registering a Gov-i account now. Signing up for an account will enable you to instantly receive messages from officials via a variety of methods.

You'll also be able to request services from Red Bank 24/7/365, register and pay for recreation programs, apply and pay for permits and licenses and more from your account

[login](#) [sign up](#)

[Service Requests](#)

[Local Business Directory](#)

**emergency management notices**

**11 Apr** **Bridge Ave. & Monmouth St. intersection to close for RR repairs**  
The New Jersey Department of Transportation (NJDOT) has advised that Monmouth Street & Bridge Avenue will be closed to traffic at the railroad c

**22 Jul** **Governor announces Hazard Mitigation Grant Program**  
In order to protect New Jersey communities from future storms, Governor Christie today launched a \$100 million grant program to assist

We are located at:  
Borough of Red Bank  
Office of Emergency Management  
90 Monmouth Street  
Red Bank, NJ 07701

We can be reached at:  
**Telephone:** (732) 530-2777 ext. 496  
**Telephone, Emergency:** (732) 530-2700 or 9-1-1  
**Fax:** (732) 450-9109  
**Hours of Operation:** 24/7

TITLE	NAME
Coordinator	Thomas J. Welsh

**Hazard Mitigation Planning**

Natural hazards have the potential to cause property loss, loss of life, economic hardship, and threats to public health and safety. While an important aspect of emergency management deals with disaster recovery those actions that a community must take to repair damages and make itself whole in the wake of a natural disaster an equally important aspect of emergency management involves hazard mitigation. Hazard mitigation measures are efforts taken **before a disaster happens** to lessen the impact that future disasters of that type will have on people and property in the community. They are things you do today to be more protected in the future. Hazard mitigation actions taken in advance of a hazard event are essential to breaking the typical disaster cycle of damage, reconstruction, and repeated damage. With careful selection, hazard mitigation actions can be long-term, cost-effective means of reducing the risk of loss and help create a more disaster-resistant and sustainable community.

More information on Hazard Mitigation Planning is available on the Monmouth County Sheriff's Office website through the link below:  
[Monmouth County Sheriff's Office](#)

**ABOUT RED BANK**

- Directory
- History
- Maps & Directions

**ADMINISTRATION**

- Mayor & Council
- Mayor's Message
- Boards, Commissions & Committees
- Minutes, Agendas, Ordinances & Resolutions

**DEPARTMENTS**

- Administration
- Animal Control
- Building Department
- Clerk
- Code Enforcement
- Court
- Emergency Management
- Finance
- Fire Department
- Fire Marshal's Office
- Health Department
- Housing Rehabilitation
- Library

http://www.web2sons.org/bulletin/months/sept2014.pdf

bulletin web2sons.org

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### Natural Hazard Mitigation: What Roosevelt Residents Can Do

by Michael Ticktin

The Monmouth County Sheriff's Office has issued the following notice:

"Monmouth County and its 53 municipalities have been working on the update of the Monmouth County Multi-Jurisdictional Natural Hazard Mitigation Plan since August of 2012. The draft of the updated plan is expected to be released in the early fall. The first county wide plan was completed in 2009. The plan is a documented evaluation of the natural hazards to which a community is susceptible and the extent to which these events will occur. It identifies an area's vulnerability to the effects of natural hazards and the goals, objectives and actions required to minimize future loss. Mitigation is preparation and planning now to reduce loss of life and property later, by lessening the impacts of future disasters.

"This plan allows the county and the participating municipalities to apply for pre and post disaster mitigation grant funding through FEMA.

"Once it is released, residents can review the draft of the all natural hazard-mitigation plan for the county and its 53 municipalities by visiting: [www.monmouthsheriff.org](http://www.monmouthsheriff.org), click on the OEM icon and select Hazard Mitigation Planning."

The Sheriff's Office goes on to state as follows on its website:

"Natural hazards have the potential to cause property loss, loss of life, economic hardship, and threats to public health and safety. While an important aspect of emergency management deals with disaster recovery those actions that a community must take to repair damages and make itself whole in the wake of a natural disaster an equally important aspect of emergency management involves hazard mitigation. Hazard mitigation measures are efforts taken before a disaster happens to lessen the impact that future disasters of that type will have on people and property in the community. They are things you do today to be more protected in the future. Hazard mitigation actions taken in advance of a hazard event are essential to breaking the typical disaster cycle of damage, reconstruction, and repeated damage. With careful selection, hazard mitigation actions can be long-term, cost-effective means of reducing the risk of loss and help create a more disaster-resistant and sustainable community."

Unlike the many other municipalities in Monmouth County that suffered extensive damage during Superstorm Sandy, Roosevelt does not have to deal with the hazard of flooding. While the potential for loss of electrical power remains a concern, it is one that is beyond our control and has to be addressed by JCP&L. The one hazard listed by FEMA and the Sheriff's Office, however, that we can do something about is the potential for wildfire. Every spring and autumn, the Borough arranges for fallen branches to be picked up and disposed of. In the interest of reducing the potential for danger to life and property from wildfire, it is imperative that all residents cooperate in the collection of dead branches from their own properties and, to the extent that they are able to do so, from adjacent woodlands. The next branch collection is planned for early October. Please note the date when it is announced and do your part to ensure that the wildfire hazard is reduced.

### ELECTRONICS RECYCLING

State law now prohibits disposal of computers and TVs with trash. Free drop-off. Program open to all Monmouth County residents, small businesses, and institutions. Limited to one pick-up truckload.

Items accepted:

- Computer cases, CPUs
- Keyboards, Mice
- Monitors, Scanners
- Printers, Cables
- Laptops, Peripherals
- Televisions
- Radios, Cameras
- Telephones
- Copiers, Fax Machines
- VCRs, DVD Players
- Stereo Components

Location:  
MILLSTONE TOWNSHIP  
Dept. of Public Works Garage  
Recycling Center  
899 Perrineville Rd.  
Open on Saturday & Sunday  
8:00 a.m. - 1:00 p.m.

For additional sites within Monmouth County, please visit  
[www.vistmonmouth.com/page.aspx?ID3021](http://www.vistmonmouth.com/page.aspx?ID3021)

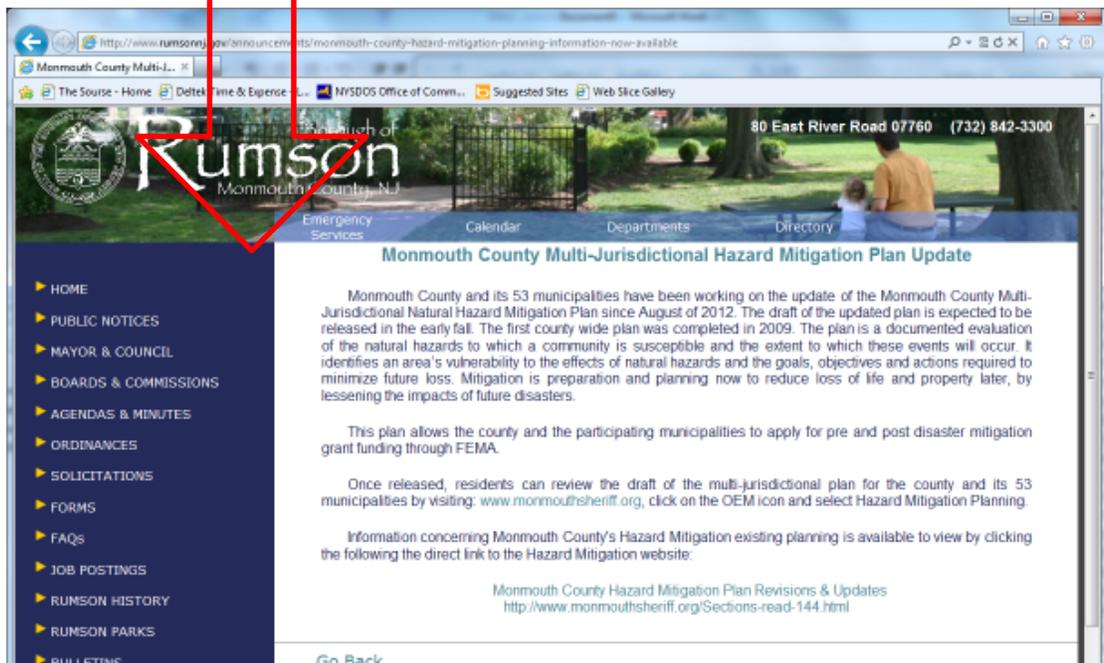
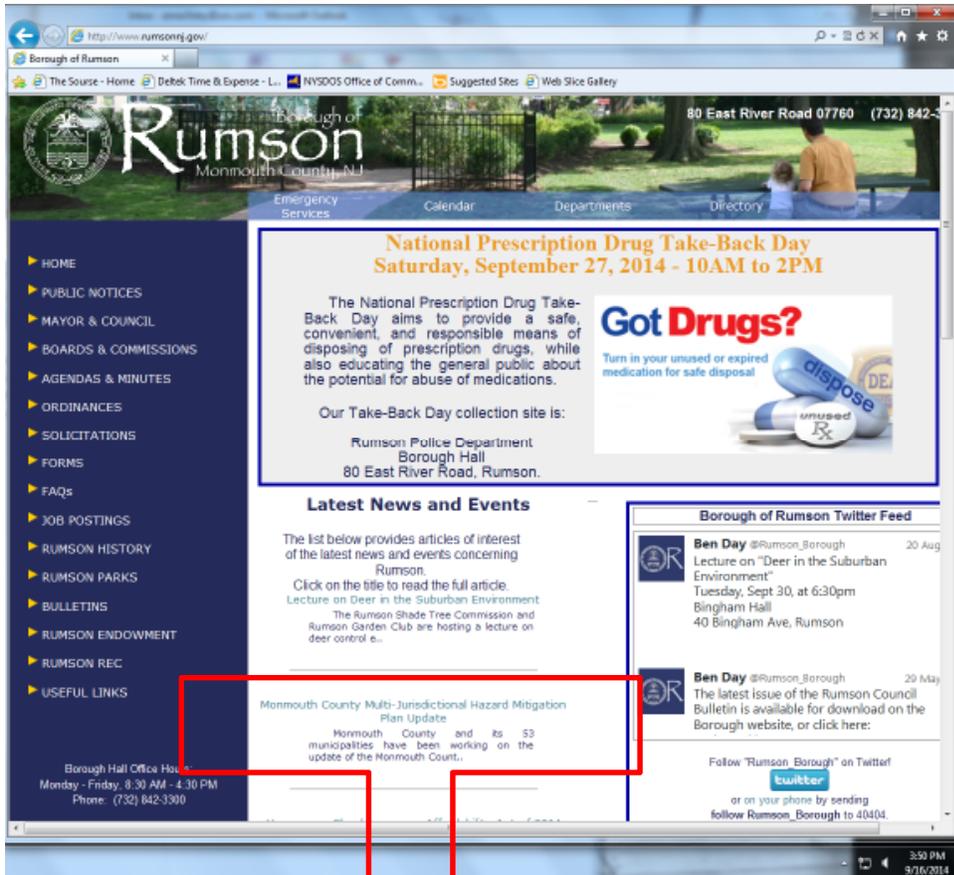
### REMINDER FOR RECYCLING:



Always leave at least 3 feet between your garbage can and recyclable container(s). The arm that lifts the garbage can needs enough room to operate so it can avoid knocking over other containers.

4 Bulletin • September 2014

Note: [www.web2sons.org](http://www.web2sons.org) is the official website of the Borough of Roosevelt.





### Community

- » Services - Garbage, Utilities, Alerts, and more
- » Residents
- » Schools
- » Sea Breeze Newsletter
- » Sandy Recovery
- » Community Information
- » Helpful Links

### Hazard Mitigation Plan, Monmouth County, New Jersey

Monmouth County Sheriff Shaun Golden is pleased to announce the release of the Draft Monmouth County Multi-jurisdictional Natural Hazard Mitigation Plan. The plan is a documented evaluation of the hazards to which a community is susceptible and the to which these events may occur.

- [Learn more about 2014 Hazard Mitigation Plan Update - Draft \(pdf\)](#)

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http://seagirtboro.com/

Borough of Sea Girt | Where... x bradleybeachnj.gov

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Directory About



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ADMINISTRATOR  
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BOARDS AND COMMISSIONS  
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HISTORY  
LIBRARY  
MUNICIPAL CODE  
MUNICIPAL COURT  
TAXATION  
ZONING AND CODE ENFORCEMENT  
FORMS AND DOCUMENTS

### MONMOUTH COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE

Monmouth County and its 53 municipalities have been working on the update of the Monmouth County Multi-Jurisdictional Natural Hazard Mitigation Plan since August of 2012. The draft of the updated plan is expected to be released in the early fall. The first county wide plan was completed in 2009. The plan is a documented evaluation ... [Continue Reading](#)



**Borough Hall**  
PO Box 296  
321 Baltimore Boulevard  
Sea Girt, NJ 08750  
732-449-9433  
Fax: 732-974-8296  
Monday through Friday  
9:00 am to 4:30 pm

### Welcome to the Borough of Sea Girt



Greetings and welcome to the Borough of Sea Girt website. As Mayor, I am honored to serve in a place that is truly wonderful to live, work, and play. Our beautiful community has so much to offer its residents. Sea Girt is blessed with small town charm, rural beauty, and a rich community life with ... [Continue Reading](#)

### News and Information

Message From The Mayor – May 23, 2014

As I walk around town and begin to notice the lawns getting greener, the flowers blooming and the lifeguard stands popping up on the beach, I know that summer has arrived in Sea Girt. We are looking forward to another fun summer filled with annual events for residents

### Meetings and Events

**September 24th, 2014**  
Council Meeting  
7:30 pm  
Sea Girt Elementary School

**October 8th, 2014**  
Council Meeting  
7:30 pm  
Sea Girt Elementary School

**October 22nd, 2014**  
Council Meeting  
7:30 pm  
Sea Girt Elementary School

**November 12th, 2014**

http://seagirtboro.com/

← → http://www.shrewsburyboro.com/emgt.html

Emergency Management

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**Emergency Services**

**First Aid Squad**

**Fire Department**

**Police Dept**

**Boro Phone List**

search

Visit the Monmouth County Sheriff's facebook page

Monmouth County Hazard Mitigation Plan Fact Sheet July 2014

Natural Hazard Mitigation Plan

Citizen Guide to Preparedness

Emergency Mgt. Guide for Business

Get Ready Now

Family Emergency Preparedness & Evacuation Actions

Please check this website and related links for emergency preparedness actions. Inquiries for additional information or questions can be submitted by email to [shrewsburyoem@yahoo.com](mailto:shrewsburyoem@yahoo.com). You can also find us on the Borough facebook page at [www.facebook.com/ShrewsburyBoroNJGovernment/](http://www.facebook.com/ShrewsburyBoroNJGovernment/)

**JCP&L Critical Care List Program**

JCP&L customers who use electrically operated life support equipment or depend on private well water can register their account with the company to get updates on potential interruptions to their electric service, such as weather-related outages during the summer storm season. JCP&L maintains a critical care list of customers who depend on electrically operated life support equipment. To be included on this list, every year customers must complete and submit an authorization form signed by their physician. The list is used to contact customers should an outage affect their electric service for more than 24 hours. JCP&L also has a list of homes and businesses that depend on electrically operated private wells for water. These customers also are notified if a power outage is expected to affect their electric service for more than 24 hours, in which case they would be advised of locations where water and ice are available.

Both the critical care customer and private well customer lists are provided to county and municipal Offices of Emergency Management. To receive additional information and register accounts for the programs call 1-800-662-3115.

**Information for Boaters:**  
[Waterways Open Boater Flyer](#)  
[FAQs for boaters](#)

**WEATHER FORECAST AND CONDITIONS** [CLICK HERE](#)

**DISASTER ASSISTANCE**

If you sustained losses, damages, or have been rendered homeless from Hurricane Sandy, you may be eligible for disaster assistance. You can call the following numbers or apply on line: 1-800-621-3362 (FEMA), TTY: 1-800-462-7585, <http://www.disasterassistance.gov>, you can also apply via your smartphone at [m.fema.gov](http://m.fema.gov)

**Tips for Back-up Generator Selection for home use**

**Tips from FEMA on GENERATOR SAFETY**

September is National Preparedness Month and FEMA invites you to [Join the National Preparedness Coalition](#). Click here to make the pledge [National Preparedness Month](#)

**Hazard Mitigation Planning**

Natural hazards have the potential to cause property loss, loss of life, economic hardship, and threats to public health and safety. While an important aspect of emergency management deals with disaster recovery those actions that a community must take to repair damages and make itself whole in the wake of a natural disaster an equally important aspect of emergency management involves hazard mitigation. Hazard mitigation measures are efforts taken before a disaster happens to lessen the impact that future disasters of that type will have on people and property in the community. They are things you do today to be more protected in the future. Hazard mitigation actions taken in advance of a hazard event are essential to breaking the typical disaster cycle of damage, reconstruction, and repeated damage. With careful selection, hazard mitigation actions can be long-term, cost-effective means of reducing the risk of loss and help create a more disaster-resistant and sustainable community.

The following documents are available to view concerning Monmouth County's Hazard Mitigation planning by clicking the appropriate links. Shrewsbury Borough is one of 52 municipalities in Monmouth County that in 2009 has completed a Natural Hazard Mitigation Plan which has been approved by FEMA.

Starting in 2012 all previously approved plans have to be updated. This process is expected to take until May 2013 at which point a draft will be submitted again for approval by FEMA. Below are links to the Plan and plan update resources:

Multi-Jurisdictional Natural Hazard Mitigation Plan, Monmouth County  
<http://www.monmouthsheriff.org/files/oem-mitigation/MitigationMultiJurPlan.pdf>  
 Monmouth County OEM Website  
<http://www.monmouthsheriff.org/Sections-read-144.html>  
 Outreach to the Public  
<http://www.monmouthsheriff.org/files/oem-mitigation/Mitigation-Guidance-Memo1.pdf>

**Shrewsbury Community Emergency Response Team (CERT)**

CERT class will begin January 24, 2012 and will be conducted every Thursday eve...

http://www.townshipofshrewsbury.com/departmentsnew-bulletins.html

Departments/New Bulletins

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# Township of Shrewsbury

Home Finance/Township Information Clerk/Township Forms Departments/New Bulletins Photo Gallery Links



### School Districts

- Monmouth Regional High School - Home of the Falcons!
- Tinton Falls School District

### Community Information & News Bulletins

- Solutions to Stormwater Pollution
- Centers for Disease Control & Prevention
- US Food & Drug Administration
- West Nile Virus in New Jersey Brochure
- Bed Bugs - Information / Fact Sheet

### Department of Public Works

Melvin K. Fitzpatrick  
(732) 977-3189  
No TV's or Corrugated Cardboard in Trash

### Code Enforcement/Housing Department

Joseph E. Muzetska  
(732) 977-3181

### Engineer

Thomas Herits, (732) 383-1950

### Municipal Court

Judge, William Himelman  
Court Administrator/Violations Clerk, Frances Pastoriza, (732) 530-2716  
[Pay Tickets Online](#)

### Police Department

State Police

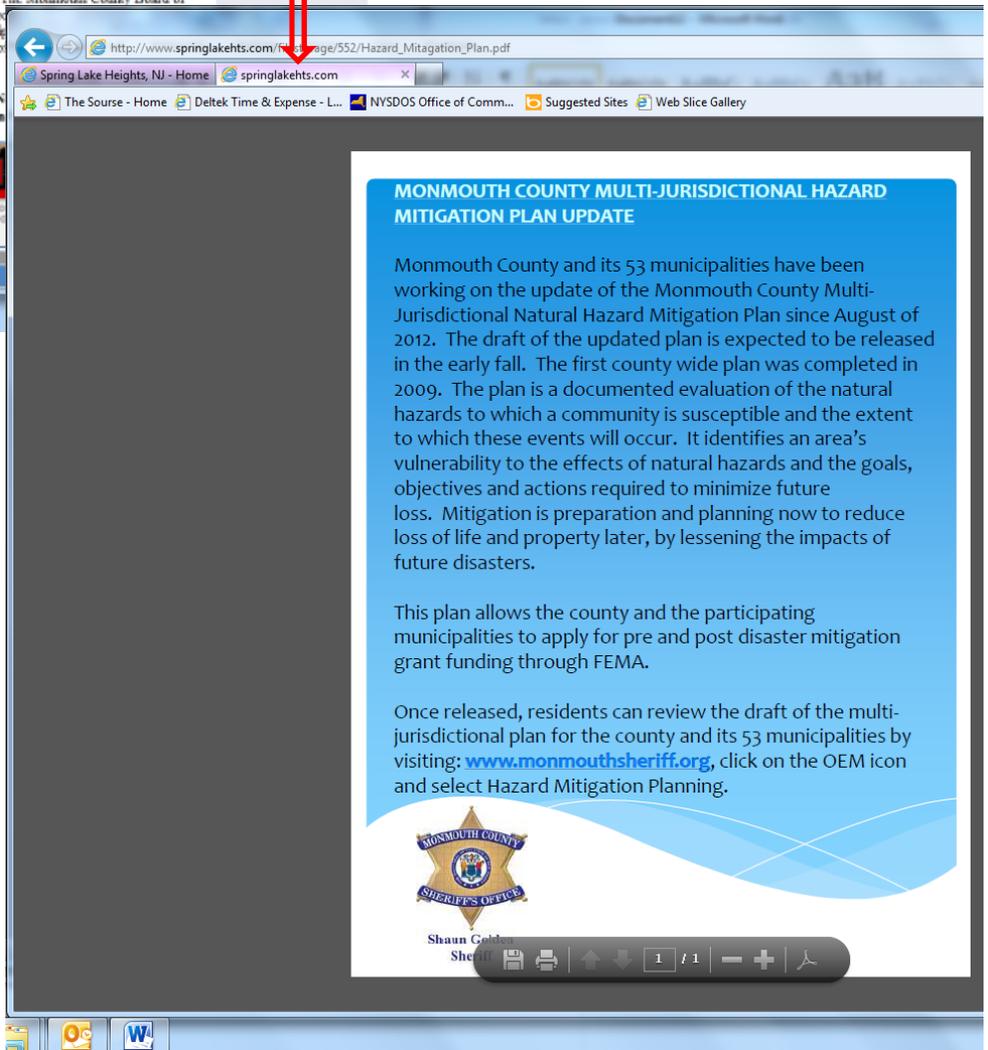
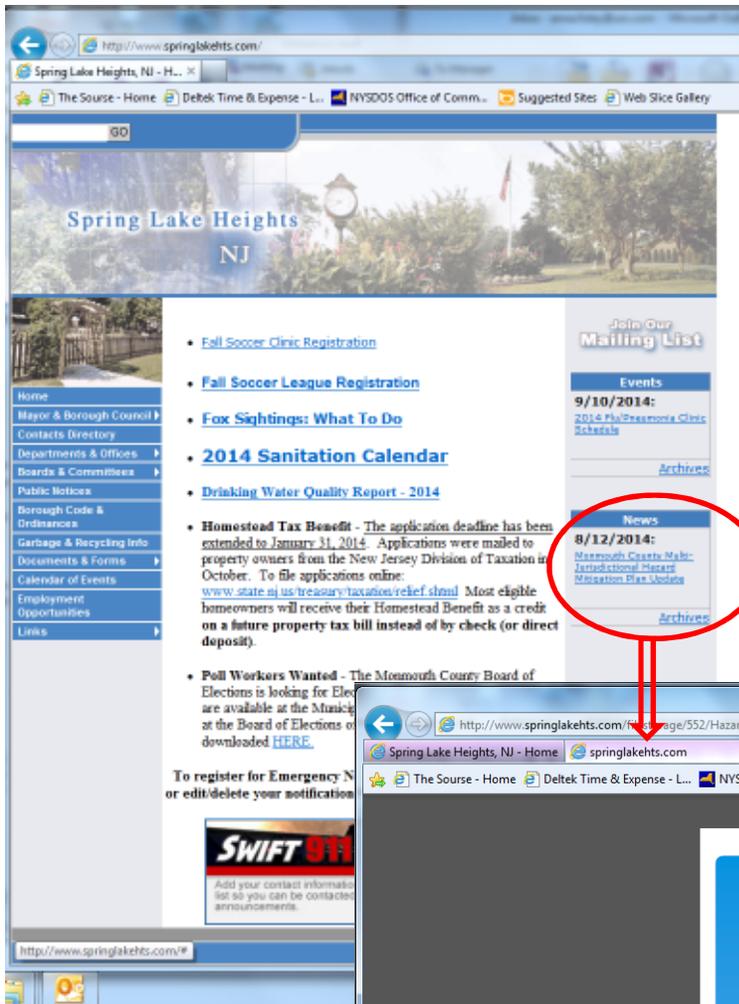
### OEM

Daniel Dunn, 732-567-9554

[Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - Plan Facts](#)

The Multi-Jurisdictional Hazard Mitigation Plan Page is on the County's Office of Emergency Management website. We encourage you to check back for additional information and updates at the following website. OEM link: [monmouthsheriff](#)

### FEMA DISASTER ASSISTANCE



Spring Lake, New Jersey - 0...

Home | Directory | Contact Us | Directions | Weather

SPRING LAKE OUR GOVT DEPARTMENTS BOARDS ONLINE SERVICES BULLETINS Search



### SPRING LAKE BEACHES

Sales of Lockers and Beach Boxes are now available! Each locker and beach box includes 5 Post and Beach badges for the 2014 Summer Season. Please click on Spring Lake Beach and see the notice section below to get started.

[Spring Lake Beach](#) >

BEACHES WELCOME RECREATION LIBRARY THE BRIDGE OUR GOVT

### Office of Emergency Management

Code Red Emergency Notification

Monmouth County Office of Emergency Management

NOAA Weather for Spring Lake | National Hurricane Center

NJ Office of Emergency Management

**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**

The Spring Lake Office of Emergency Management is responsible for the preparation, implementation and oversight of emergency preparedness for the Borough and its residents, the Office is under the direction of the Borough Emergency Management Coordinator and Chief of Police, Edward M. Kerr. Chief Kerr is assisted by borough resident and firefighter, Peter Meade. They are also assisted by representatives of our emergency services, including Police, Fire and First Aid, as well as the Department of Public Works and the Administration. The Office of Emergency Management is committed to constantly improving the safety of our residents. As a part of that effort, the OEM has developed a number of emergency warning methods as described below.

**Warning Systems** - The Borough of Spring Lake has several emergency warning capabilities provide timely information to Spring Lake families in case of emergency.

These warning systems include:

- An AM broadcast station (1640 AM) that broadcasts NOAA weather radio updates daily, and which will include emergency warning messages when appropriate.

### 16 Upcoming Events

Sorry, no events are scheduled.

[View All Events](#) >

### Notices

- Restoration, Rehabilitation, Clearance, and Mitigation (RRCM)**  
More information attached.
- FEMA Flood Insurance Rate Mapline**  
FEMA Flood Insurance Rate Mapline Available. Preliminary Work Maps have been intro...
- 2013 Beach Sponsorship**  
If you had sponsored a boardwalk beach prior to Hurricane Sandy, please click below...

[View All](#) >

http://www.tintonfalls.com/

Tinton Falls, NJ - Home | Event Viewer

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Borough of Tinton Falls, NJ

Quick Links ...

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COAH-Affordable Housing  
Competitive Bidding  
Election Information  
Fire/EMS  
Forms & Documents  
Library  
Minutes & Agendas

**Welcome to the Borough of Tinton Falls**

**Current News and Events**

Welcome Mayor Gerald M. Turning



The Borough of Tinton Falls will be hosting its **16th Annual Community Day** on Saturday, October 11, 2014 from 3 PM - 7 PM at the Sycamore Recreation Complex. [Click here](#) to find out more information on becoming a Sponsor!

Events Calendar

September 2014						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

Select a Calendar...

How Do I... ?

create a Citizen Concern & Inquiry Request

**Suggestion Box**  
Have a Helpful Suggestion or Money Saving Idea?

http://www.tintonfalls.com/

Tinton Falls, NJ - Home | Event Viewer

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In 2013, Monmouth County was chosen to participate in the New Jersey "Assessment Demonstration Program" which is intended to provide a more cost effective and accurate process for property assessments, including the annual adjustment of assessments to reflect changes in the market. [Click here](#) to learn more about the "Assessment Demonstration Program."

A portion of Hockhockson Road is closed due to bridge repair. Hockhockson Road will be impassable in each direction at the bridge, located just east of Water Street. The bridge and road closure will continue for 24 hours a day for at least two weeks until bridge repairs are complete. Please plan alternate route.

[Click here](#) for tips on how to avoid the "IRS phone scams."  
[Click here](#) for tips on how to avoid a new phone scam targeting wireless consumers. [CLICK HERE TO REPORT A PHISHING SCAM](#)

[Click here](#) for the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update.

[Click here](#) for the Monmouth County Regional Health Commission No. 1 Fall Schedule 2014-2015 Rabies Clinic. Saturday, January 10, 2015 will be at the Tinton Falls Municipal Complex, DPW Bldg, 556 Tinton Avenue from 10 AM -12 Noon.

**Today's Meetings**

9/16/2014 - Municipal Court  
9/16/2014 - Executive Session as needed  
9/16/2014 - RFE Meeting  
9/16/2014 - MRHS- Cafeteria "Introduction to Scouting Night"  
9/16/2014 - Borough Council Meeting  
[Upcoming Meetings](#)



Millstone- link to fact sheet and county web site

http://uftnj.com/index.asp?SEC=1DE03733-A850-4639-A8D4-6DFD71DA86C7&Type=B\_BASIC

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# Upper Freehold Township

THE HEARTLAND OF NEW JERSEY

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RFQ's

Employment Opportunities

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Helpful Links

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RFP'S

In Departments:

- [Administration](#)
- [Animal Control](#)
- [Assessor](#)
- [Board of Health](#)
- [Construction Department](#)
- [Drug Alliance](#)
- [Emergency Management](#)
- [Finance](#)
- [Land Use Administration](#)
- [Municipal Clerk](#)
- [Municipal Court](#)
- [Public Works](#)
- [Recreation](#)
- [Tax Collector](#)
- [Vital Statistics](#)

### Office of Emergency Management

This page is in the process of being developed. Please visit our Facebook page at <https://www.facebook.com/UFTOEM>

**Remember to properly identify your house for emergency responders: please adhere to the following from our Building and Housing code 11-4.4:**

The street numbers to be displayed for each building shall be visible from the street on the improved premises in question and otherwise separately mounted in an approved manner upon the face of a wall or upon a post in the front yard of the premises. Same shall be sufficiently legible as to contrasting background arrangement, space and uniformity so as to be clearly visible from the street both night and day and reflective or illuminated numbers are required. The numbers shall be so placed that trees, shrubs and other obstructions do not block the line of sight of the numbers from the center of the street (and the property owner shall be responsible for maintaining same and the line of sight). The numbers shall be mounted at a height between four (4) feet and ten (10) feet above the street and adjacent grade.

If the house or building has a setback location of greater than fifty (50) feet, then the owner, occupant or lessee shall also provide a post, rod or other type of fixture of a substantial nature including a mailbox with the number affixed thereon and so located on the premises near where the driveway enters the street so that the numbers shall be conspicuous and visible from both directions of the street upon which the building fronts and comply with all provisions of this section.  
(Ord. No. 17-1993 § 4)

Contact Us:

Mike Conroy OEM  
Coordinator  
609-548-7191

**Monmouth County:**  
[Monmouth County Hazard Mitigation Plan Update](#)

314 Route 539, Cream Ridge, NJ 08514 Ph 609-758-7738

http://www.wallnj.com/docs/10\_2012\_online\_survey.pdf  
Back to http://www.google.com/url?sa=trct=jq=esrc=sfrm=1source=webcd=5ved=0CDUQFjAEurl=http://www.wallnj.com/docs/10\_2012\_onlin (Alt+Left)

The Source - Home Deltek Time & Expense - L... NYSDOS Office of Comm... Suggested Sites Web Slice Gallery

# P R E S S   R E L E A S E

S a t u r d a y ,   O c t o b e r   2 0 ,   2 0 1 2



**Township of Wall**  
**Office of Emergency Management**

coordinator, Robert L. Brice Jr.  
Deputy coordinator, Joseph J. Wilbert  
Deputy coordinator, Bill Voelkel  
Deputy coordinator, Michael Hines

---

**WALL TOWNSHIP RESIDENTS BEING ASKED TO PARTICIPATE IN ONLINE SURVEY THAT WILL HELP WHEN DEALING WITH NATURAL HAZARDS**

Has your home ever been flooded? Or have you been affected by any other type of natural disaster? Monmouth County residents can now learn more about a comprehensive all natural hazards-mitigation plans for the county and its 53 municipalities, and, complete an online citizen questionnaire at [www.monmouthsheriff.org](http://www.monmouthsheriff.org).

Through a grant, provided by the Federal Emergency Management Agency (FEMA), the Board of Chosen Freeholders contracted with URS Corp. Inc. of Clifton, N.J., to work with county emergency management staff and municipal representatives to update the All Natural Hazards Mitigation Plan. The plan is a documented evaluation of the hazards to which a community is susceptible and the extent to which these events will occur.

Background information about the plan is available on the sheriff's website, and residents are being encouraged to complete the online survey that will help a study team better assess the nature, extent and probability of various hazards in Monmouth County. The 15-question survey will take five minutes to complete.

The goal of the plan is to identify projects that can reduce damages from future natural hazards. The plan will include a risk assessment and a hazard-mitigation strategy.

The primary hazard in Monmouth County is flooding, but other potential hazards to be analyzed include drought, extreme cold, extreme heat, snow, ice, hail, windstorms Nor'easters, Hurricanes, tropical storms and tornadoes, among others.

For more information visit [www.monmouthsheriff.org](http://www.monmouthsheriff.org)

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P.O. Box 1168 / 2700 Allaire Road ~ Wall Township, New Jersey 07719-1168      [oem@townshipofwall.com](mailto:oem@townshipofwall.com)

http://www.westlongbranch.org/index.php

West Long Branch Home Page

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**West Long Branch Home Page**

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- About WLB
- Departments
- Governing Body
- Borough Announcements
- Emergency Services
- Ordinances/Code Book
- History
- Boards/Commissions
- Online Forms
- Contact Us

**FREE RABIES CLINIC**

Bring your dog or cat to West Long Branch Fire Company #1, 379 Monmouth Road, to get a free rabies shot on Thursday, October 2, 2014. The clinic will be held from 7 p.m. to 8 p.m. PLEASE HAVE DOGS ON A LEASH AND CATS 1 TO A CARRIER. ANIMAL MUST BE SUPERVISED BY AN ADULT. IF YOU HAVE ANY QUESTIONS PLEASE CONTACT: 732-493-9520  
Deletion date October 2, 2014

**TOWN-WIDE GARAGE/YARD SALE & FALL FESTIVAL**

The Town-Wide Garage/Yard Sale will be held on Saturday, October 11, 2014. Permits are required, however the fee will be waived. Please come to Borough Hall, 965 Broadway, to obtain your permit.

The West Long Branch Fall Festival will be held on

**What's Happening in West Long Branch?**

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Sep 2014	Oct	Nov	Dec	2015			
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
1	2	3	4	5	6		
7	8	9	10	11	12	13	
14	15	16	17	18	19	20	
21	22	23	24	25	26	27	
28	29	30					

All September 2014 events  
[Show all 128 future events](#)

**TAX INFORMATION**

**NOW YOU CAN PAY YOUR TAXES ONLINE!**

http://www.westlongbranch.org/index.php

West Long Branch Home Page

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[Monmouth County Board of Taxation Assessment Demonstration Program](#)

**MONMOUTH COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE**

ATTENTION! The Monmouth County Multi-Jurisdictional Hazard Mitigation Plan has been updated. Please click the links below for important details.

[HAZARDOUSMITIGATIONPLANUPDATE](#)

<http://monmouthsheriff.org/Sections-read-144.html>  
<http://monmouthsheriff.org/Sections-read-144.html>

**Hazardous Mitigation Plan**

[Action Prompt](#)

**Current West Long Branch, NJ Weather**

**Borough of West Long Branch**  
965 Broadway  
West Long Branch, NJ 07764  
Email: [Webmaster](mailto:Webmaster@westlongbranch.org)  
Phone: 732-229-1756 - Fax: 732-571-9185

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**APPENDIX 1.13 – MCOEM NATURAL HAZARDS SURVEY RESULTS**

<b>Mitigation Questionnaire Tally</b>			
<b>How long did you live in Monmouth</b>			
Less than a year	7		
One to five years	51		
Six to Nine years	40		
Ten to Nineteen	85		
Twenty or more	383		
<b>NATURAL HAZARD INFORMATION</b>			
<b>Drought</b> (have experienced)	282	<b>Flood Basement</b> (have experienced)	243
Drought (have not experienced)	291	Flood Basement (have not experienced)	330
Drought Not Concerned	138	Flood Basement Not Concerned	115
Drought Somewhat Concerned	245	Flood Basement Somewhat Concerned	115
Drought Very Concerned	60	Flood Basement Very Concerned	94
Drought Extremely Concerned	19	Flood Basement Extremely Concerned	115
<b>Erosion</b> (have experienced)	125	<b>Flood Property</b> (have experienced)	198
Erosion (have not experienced)	448	Flood Property(have not experienced)	375
Erosion Not Concerned	148	Flood Property Not Concerned	97
Erosion Somewhat Concerned	119	Flood Property Somewhat Concerned	143
Erosion Very Concerned	97	Flood Property Very Concerned	98
Erosion Extremely Concerned	51	Flood Property Extremely Concerned	109
<b>Flood First Floor</b> (have experienced)	69	<b>Flood Street</b> (have experienced)	281
Flood First Floor (have not experienced)	330	Flood Street (have not experienced)	292
Flood First Floor Not Concerned	182	Flood Street Not Concerned	121
Flood First Floor Somewhat Concerned	99	Flood Street Somewhat Concerned	153
Flood First Floor Very Concerned	52	Flood Street Very Concerned	86
Flood First Floor Extremely Concerned	70	Flood Street Extremely Concerned	94
<b>Hurricane</b> (have experienced)	511	<b>Severe Storms</b> (have experienced)	510
Hurricane (have not experienced)	62	Severe Storms (have not experienced)	63

Hurricane Not Concerned	23	Severe Storms Not Concerned	33
Hurricane Somewhat Concerned	162	Severe Storms Somewhat Concerned	171
Hurricane Very Concerned	155	Severe Storms Very Concerned	161
Hurricane Extremely Concerned	161	Severe Storms Extremely Concerned	130
<b>Severe Winter Storm (have experienced)</b>	519	<b>Tornado (have experienced)</b>	45
Severe Winter Storm (have not experienced)	54	Tornado (have not experienced)	528
Severe Winter Storm Not Concerned	37	Tornado Not Concerned	153
Severe Winter Storm Somewhat Concerned	163	Tornado Somewhat Concerned	162
Severe Winter Storm Very Concerned	168	Tornado Very Concerned	59
Severe Winter Storm Extremely Concerned	129	Tornado Extremely Concerned	44
<b>Excessive Temperatures (have experienced)</b>	381	<b>Expansive Soils (have experienced)</b>	32
Excessive Temperatures (have not experienced)	192	Expansive Soils (have not experienced)	541
Excessive Temperatures Not Concerned	126	Expansive Soils Not Concerned	226
Excessive Temperatures Somewhat Concerned	224	Expansive Soils Somewhat Concerned	112
Excessive Temperatures Very Concerned	79	Expansive Soils Very Concerned	40
Excessive Temperatures Extremely Concerned	37	Expansive Soils Extremely Concerned	32
<b>Groundwater Contamination (have experienced)</b>	93	<b>Ice Storm (have experienced)</b>	404
Groundwater Contamination (have not experienced)	480	Ice Storm (have not experienced)	169
Groundwater Contamination Not Concerned	105	Ice Storm Not Concerned	87
Groundwater Contamination Somewhat Concerned	139	Ice Storm Somewhat Concerned	213
Groundwater Contamination Very Concerned	100	Ice Storm Very Concerned	109
Groundwater Contamination Extremely Concerned	84	Ice Storm Extremely Concerned	61
<b>Ice Jam (have experienced)</b>	48	<b>Landslide (have experienced)</b>	9
Ice Jam (have not experienced)	525	Landslide (have not experienced)	564
Ice Jam Not Concerned	216	Landslide Not Concerned	295
Ice Jam Somewhat Concerned	116	Landslide Somewhat Concerned	67
Ice Jam Very Concerned	45	Landslide Very Concerned	20
Ice Jam Extremely Concerned	26	Landslide Extremely Concerned	16

<b>Groundwater Seepage</b> (have experienced)	93	<b>Sink Holes</b> (have experienced)	46
Groundwater Seepage (have not experienced)	480	Sink Holes (have not experienced)	527
Groundwater Seepage Not Concerned	105	Sink Holes Not Concerned	195
Groundwater Seepage Somewhat Concerned	139	Sink Holes Somewhat Concerned	141
Groundwater Seepage Very Concerned	100	Sink Holes Very Concerned	37
Groundwater Seepage Extremely Concerned	84	Sink Holes Extremely Concerned	36
<b>Household Preparedness</b>			
Not Prepared 1	20		
2	58		
3	252		
4	199		
Most prepared 5	33		
Why do you think you are prepared for the probable impacts from natural hazard events that may occur within Monmouth County?			
Emergency preparedness information from a government source (e.g., federal, state, or local emergency management)			354
Locally provided news or other media information			393
Schools and other academic institutions			73
Attended meetings that have dealt with disaster preparedness			90
<b>Information</b>			
Newspaper – Courier News	40	Outdoor Advertisements	53
Newspaper – Star Ledger	34	Internet	450
Newspaper – Other	186	Chamber of Commerce	22
Telephone Book	10	Fire Department/EMS Agency	201
Informational Brochures	144	Academic Institutions	129
Public Meetings	126		
Workshops	92		

Schools	62		
TV News	412		
TV Advertisements	65		
Radio News	284		
Radio Advertisements	51		
Do you live in a Flood Plain			
Yes	117		
No	334		
Not Sure	110		
Do you have flood insurance?			
Yes	140		
No	422		
Do you or did you have problems getting homeowners insurance?			
Yes	55		
No	505		
<b>HAZARD MITIGATION</b>			
Buyout			
Yes	412		
No	125		
Consider Hazard			
Yes	86		
No	487		
Spend Money on home to make disaster resistant.			
Yes	494		
No	79		
How much money willing to spend			
\$5000 and Above	83		
\$1000 to \$4999	305		
\$0 to \$999	85		
Nothing	26		
Don't know	66		
Incentives			

Insurance discount	0		
Low interest loan	386		
Lower new home construction costs	63		
Mortgage discount	109		
Tax break	515		
None	17		
Spend tax dollars			
Yes	181		
No	238		
Maybe	149		
<a href="#">View mitigation projects requests</a>			

# Mitigation projects would like to see

Nothing from tax money

Tree pruning and maintenance to prevent power outages from downed limbs due to severe summer or winter storms. Cleaning of sewer and drains to help ensure proper drainage during heavy rains.

duck bill type valves placed on drain pipes to prevent backflow of water that drains into the river to prevent roadway flooding

1. identifying & resolving flood-prone roads 2. having tree, snow & ice removal equipment and operators nearby and readily available for response 3. more underground utility lines for electric, phone and TV services

more storm drains and dredging in small creeks and streams

Better drains systems, road grade changes and curbing in Colts Neck on County and State Roads.

I do not believe that we should allot taxes for people who choose to live on the water and have their houses destroyed by a natural disaster, it is their responsibility! I also disagree with providing sand to private beach clubs and limiting sea wall access when our taxes paid for these benefits.

removal of dead trees from around my house

overhead power lines changed to underground; prohibiting excessive building on land that could absorb water to prevent flooding;

My town needs to upgrade its storm water drainage and pumping facilities.

improved curbs, sewers and drain lines starting in residential neighborhoods closest to the coastline

A secured well stocked (food, water, heat, electricity, etc.) off site shelter in the case of a major disaster.

hazardous tree removal.

?

Management of lakes within Matawan Borough.

tree trimming which would protect property and people, reduce down lines, and keep trees from falling on people and their houses.

I am not a homeowner --- I am the sole resident of a rented apartment. No dependents.

stream cleaning and rehabilitation

my house raised

more detention basins and clearing or widening of local rivers that flood. cleaning detention basins. cleaning streets and sewer grates of leaves

sump pump installation in all homes / buildings with basement; ensure drinking water sources are protected from contaminated intrusion

Groundwater contamination

Municipality making sure storm drains are free of debris. Pick up leaves BEFORE storms hit. Advise residents to help by keeping landscape wastes OUT OF THE STREET GUTTERS

We lose power much too often. There should be better resilience in the power grid; perhaps bury more electrical lines underground especially where many trees that could take them down in a storm.

Build levees

People should not be allowed to build homes in high flood areas or close to the ocean. More money should be spent on educating the public about areas that are prone to natural hazards. I'm in favor of letting the land in natural hazard areas go back to it's natural state and stop building in those areas.

Analyze the electricity infrastructure and why 950 JCP&L utility poles were downed; demand that the utility company replaces them with taller, steel poles more resilient to tree damage. Do not allow any new circuits be just hanged low on wooden poles, thus increasing the weight load, and the risk od falling trees catching them. Request the utility company reports in real time the status of individual circuits, with history of any incidents for the component parts.

Improved tree management.

Explore community protection works for inland areas that may be prone to wildfires.

Lifting a house to meet the updated building codes to lesson the risk of flooding

Picture the worst and address it, BEFORE disaster strikes! Spend our money on our Infrastructures and stop wasting it on foreign aid. Send regular mailings and e-mails to residents, reminding them of steps to take and resources available, before, during and after crisis.

te

I would like to see a home I could afford to live in on the salary I make...

More projects for renters and the disabled to help us during disasters. The NJ special needs registry did nothing with these last storms.

Unsure..but educar=tion is #1.

Tree trimming, cleaning trash from streams that may cause flooding, flood control projects, improve electrical grid, more emerency generators

Land preservation to lower risks profiles - off shore buffer zones to reduce wave energy - house raising or buyouts.

Wall around the river, better storm drain system, better protection for borough hall, decrease building on river and ocean

aLLOW BEACH REBUILDING AT EXORBINATELY HIGH INSURANCE RATES A MUST.

Selected neighborhoods that are in harms way, and have had flooding, or other natural disasters that disturb health or living conditions in community.

I would like to see approval in municipal zoning laws to raise houses. I would like to see higher bulkheads around town owned parks, etc.

Stop redeveloping areas/properties that are damaged or destroyed again and again.

NFIP and ICC grants provided to raise structures out of flood elevations due to the increase in frequency of these storms and height of storm surges caused by altering weather patterns.

Whatever makes the community safer. Personally, we would like to further elevate our home, but require financial assistance in order to accomplish this.

upgrade power system

Loss of power is a real problem that I have experienced during severe weather events. Improvements in this area would be beneficial to me to allow me to stay in my home and be informed of what was going on.

Dwelling elevating

back creeks cleaned out of over growth and trash. Beach replenishment and dune replacement

OPEN SPACE / REDUCTION OF HOMES BUILT
fix Shrewsbury River flooding that occurs every full moon!
Flood, power
Flood control projects in Port Monmouth, Belford and Leonardo.
Fix se bright bulk heads, beach replenishment, fix pumps
Cover the streams with proper drainage and clean outs bays need to have some form of barriers and not allow building too close to any of it
Dredge pews creek. Anything to stop flooding in Port Monmouth.
Stop building so the water has somewhere to go...
Making living by the shore more safe and secure for year round residents.
sand dunes, sea walls. buyouts of low lying ares
Remove trees that pose a threat to the electrical lines on the telephone poles and replace poles that have lived their life expectancy.
If I were to raise my home it still wouldn't protect my property. Fences, decks, lawn furniture, these items are not covered with a flood policy. We are in fear of a flood every time there is moderate rain. You can contace me at 732-239-1675.
Stream Flood mitigation
River and stream dredging. Storm drain clean up.
Flood mitigation, roadway improvements
raising homes
house lifting
Buyout programs. I do not believe in rebuilding where a severe disaster has occurred.
Better flood control for the bayshore.
Put a shutoff valve in Port Monmouth near Crown Tire so the bay water doesn't come up through the storm drains. Plus clean them once a year.
flood control/protection/sand dunes/dikes.
Flood control for Port Monmouth and Keansburg Nj.
town wide radio statio not just bayshore
Flood Walls and Locks
Storm Surge Protection, Street Drainage Repairs by flood areas
rezone hirisk areas so that they can not be built on.Help people move out of harms way.
Depends on the situation. Elevations are feasible in some areas, buyouts are the only viable option in others, specifically when the town is victimizing a resident by negligence of their municipal drainage system and using their property as a detention basin.
flood wall house was not in flood area 35 yrs ago when I bought it
a civilian relief project where civilians are trained to be better responders
Less building on coastlines; more land left vacant to become wetlands or marshes; dunes created along beach areas;
Better energy efficiency measures for all homes in Monmouth County. More use of off-grid solar systems when the electric goes off w/battery backups rather than the use of generators.
House Raising Funds for those that can't afford them.
sea walls
Sand dunes/ Flood gates
buyouts

Repair/upgrade of Keansburg beach front (dunes) and flood gates. In my opinion the flood gate and draining the creek during Sandy was a BIG factor in saving the West Keansburg section of Hazlet. My thanks to who ever had that idea!!
I would like to see a mitigation project that protects my family from future storm damage. we would do whatever it takes if we had the funds to do it. We currently have a mortgage besides other bills and can not afford another monthly bill to raise our home
Funding supplemental to ICC coverage. \$30K does not cover costs. There is a typo in your questionnaire #6 MOST EFFICTIVE
sea walls in the ocean to lessen the impact of the water & flooding
Govt buying properties
eliminating flooding conditions
Shore protection, power line protection
I don't know. Nature is more powerful than all of us... nothing protects us from tornados or earthquakes.... stronger windows,elevation in flood zones
get rid of shade tree restrictions in Fair Haven so homeowners don't need a permit to remove trees on their property that endanger their home and power lines
This is a test
TEST ENTRY FROM DANIELLE GARSKE IN DEPARTMENT OF PUBLIC INFORMATION & TOURISM. PLEASE DISREGARD ANY INFORMATION ENTERED
John Zaranka - this is a test - disregard
Meaningful Flood protection measures along the Bayshore area of Monmouth County. Stormwater improvements projects that would assist local towns that are impacted by neighboring community issues.
drainage, upgrade utilities, power and internet recovery
dredging of river and creek/streams that feed into the river storm drains and other measures to move water planting of vegetation
Dunes that are constructed properly; not like the previous ones which were too high and not deep enough; sand ended up in/on beachfront, 1st avenue and inlet homes and made the water more powerful when it hit our homes and so it did more damage; put temporary barriers or sandbags along the inlet to prevent damage.
The town built higher. The sea wall built higher. The roads raised higher. The bulkheads built higher. The whole town higher. The Beach sand raised higher still. A 300 year plan
Buyouts of areas like Seabright that are rebuilt again and again.
Sea walls, Sea gates at inlet to ocean, reinforced dunes on beaches
Dunes!
Our emergency services are great they have a radio station and many other things. I would want a engineered dune system our dune was gone on the morning tide on day of the storm never was around for the night high tide
Beach replenishment
Sustainable Designed Mitigation Projects that work WITH the landscape and not AGAINST it. Projects that take note of how nature wants to act and then allows it to do so. Projects that dont fight nature with mans engineering. Nature will always do what it wants and in time will succeed as we saw from Sandy.
Engineered dunes. I have been told that my house cannot be raised. Therefore sand bags available for purchase would be helpful.

Better electrical back-up systems. HELPFUL National Guard and police acting concerned and not acting like you are a criminal for not evacuating the neighborhood. Better control of information across the agencies. Faster Response time from local governments.

Sump pumps should not be allowed to drain into the street - as "standing water" is illegal, this is the same thing. The water sits on the side of Brielle Rd. & smells horribly, also drawing mosquitos which is a health hazard.

Dune replenishment

Schoene Seite :)

Interessante Website. Das Design und die nuetzlichen Informationen gefallen mir besonders.

Ich bin gerade zufaellig auf Ihrer Webpage gelandet (war eigentlich auf der Suche nach einer anderen Homepage). Ich moechte diese websiete nicht verlassen, ohne Dir ein Lob zu dieser gut strukturierten und schick designten Seite zu hinterlassen!

Flood protection storm mitigation

**APPENDIX 1.14 – COMMENTS ON THE OCTOBER 2014 DRAFT PLAN**

#	Comment	Comment Submitted By	Disposition (Concur; non-concur)	Response	Responsible Party	Action taken
1	<b>SECTION 2: Hazard Identification</b> Land subsidence is not identified in the HMP as one of the significant hazards facing Monmouth County. I have made a number of inquiries on this topic. At this time, a formal study has not been performed to effectively document the extent to which land subsidence is or is not taking place in Monmouth County. Rutgers University is planning to quantify Sandy Hook subsidence and other areas of Monmouth and Ocean County under renewal of a sea grant proposal. If subsidence is taking place, it could accelerate the effect of sea level rise. Although the threat from land subsidence does not appear eminent at the moment, until such time that a study is conducted that provides more data and insight into the situation, the Division of Planning suggests reserving this discussion to the County's Comprehensive Master Plan within the context of a "Long Range Challenge". This issue should be revisited during the next HMP update.	County Official	concur	County will ask URS to review their source for the information provided in the Hazard ID section; County will revisit and review as appropriate during annual revisions as well as the 5 year plan update	County/URS	Submitted to URS 11/21/14; will send CD of comments CD. <b>URS: no new information on land subsidence identified; no edits made to HMP.</b>
2	<b>SECTION 3A: Risk Assessment- Hazard Profiles</b> There are discrepancies between the data presented in Table 3a.11 and the map shown in Figure 3a.6. Millstone Township: The table shows two events, one EF0 and one EF1 whereas the map displays two F1 storms; Manalapan Township: The table shows one EF2 event whereas the map does not indicate or show the location of a storm event in the Township; Middletown Township: The table shows one EF0 event whereas the map does not indicate or show the location of a storm event in the Township; Highlands Borough: The table shows an EF0 event whereas the map indicates an EF1 event.	County Official	concur	URS will review and revise as appropriate	URS	Submitted to URS 11/21/14; will send CD of comments CD. <b>URS: Concur; edit made to Figure 3a.6 to match table. Note: the location for the Highlands/Middletown tornado is shown on the border of the two communities, as the tornado affected both.</b>
3	<b>SECTION 3D: Land Use and Development Trends</b> There have been a number of data updates since this section of the HMP was completed early in the documentation process. Upon request, our office can provide the updated "point-in-time" information prior to final HMP approval including the current amount of County open space, number of farms preserved, and the amount of farmland preserved.	County Official	concur	URS will review and revise as appropriate	URS	Submitted to URS 11/21/14; will send CD of comments CD. <b>URS: This comment was forwarded to Mike Oppgaard to request information from County Planning; if available, information can be added to the final HMP or to the next update of the HMP.</b>

4	<p><b>SECTION 3D: Land Use and Development Trends</b> Since this HMP's inception, the Division of Planning's organization structure has been somewhat modified compared to what is presented in the draft plan. Upon request, our office would be glad to modify this section for you prior to final HMP approval</p>	County Official	concur	URS will review and revise as appropriate	URS	Submitted to URS 11/21/14; will send CD of comments CD. <b>URS: This comment was forwarded to Mike Oppgaard to request information from County Planning; if available, information can be added to the final HMP or to the next update of the HMP.</b>
5	<p><b>SECTION 3D: Land Use and Development Trends</b> We suggest adding a discussion about the County Master Plan Update which will eventually replace the existing County Growth Management Guide. Upon request, our office can provide you with appropriate language</p>	County Official	concur	URS will review and revise as appropriate	URS	Submitted to URS 11/21/14; will send CD of comments CD. <b>URS: This comment was forwarded to Mike Oppgaard to request information from County Planning; if available, information can be added to the final HMP or to the next update of the HMP.</b>
6	<p><b>SECTION 3D: Land Use and Development Trends</b> Although growth in Monmouth County is expected to continue through 2040, it is anticipated to occur at a slower rate than that which was projected in the 2005 Cross Acceptance report. Therefore, the HMP should only rely on the latest NJTPA 2040 projections for the discussion on population projections.</p>	County Official	concur	URS will review and revise as appropriate	URS	Submitted to URS 11/21/14; will send CD of comments CD. <b>URS: In preparing the HMP, the source of population projections to 2040 was a 2012 forecast prepared by the North Jersey Transportation Planning Authority (NJTPA) in November 2012 in consultation with the Monmouth County Department of Planning. (See Table 1.1 for an example).</b>
7	<p><b>SECTION 3D: Land Use and Development Trends</b> During the next decade, there will be a shift away from the traditional suburban growth patterns we have been experiencing in Monmouth County since the 1940s to more of a redevelopment focus. Most of this redevelopment is expected to occur in coastal communities. In order for the HMP to be consistent with the conversation being framed in the County Master Plan update, it is suggested that less emphasis be placed on the term "growth" and more in terms of growth coinciding with redevelopment. Therefore, it is important that the first sentence under the section Development Trends (p 3.d-21), "Monmouth County can be characterize in one word: growth" must be removed.</p>	County Official	concur	URS will review and revise as appropriate	URS	Submitted to URS 11/21/14; will send CD of comments CD. <b>URS: Edit made to page 3.d-14.</b>

8	<p><b>SECTION 6: Mitigation Strategies</b> This section does not identify the NFIP CRS Program nor does it include CRS as an Action for any of the Goals. Identifying CRS as an Action can most likely fit under: Goal 1: Promote disaster resilient development; Goal 2: Build and support local capacity to enable the public to prepare for, responds to and recover from disasters; Goal 4: Reduce the possibility of damage and losses due to flooding caused by floods, hurricanes and nor' esters.</p>	County Official	concur	URS will review and revise as appropriate	URS	Submitted to URS 11/21/14; will send CD of comments CD. URS: text describing CRS participation as an new Action added to Table 6.1, under Goal 1.
9	<p><b>EXECUTIVE SUMMARY</b> Please indicate on p. iii that the HMP was also mentioned at the 10/20/14 meeting of the MCPB.</p>	County Official	concur	URS will review and revise as appropriate	URS	Submitted to URS 11/21/14; will send CD of comments CD. URS: edit made to Executive Summary, page iii.
10	<p><b>STRATEGIC RECOVERY PLANNING REPORTS (CDBG-DR)</b> The New Jersey Department of Community Affairs is administering grants through the HUD Community Development Block Grant-Disaster Recover (CDBG-DR) fund to support long range planning for community redevelopment in Sandy affected communities. In order for a town to be eligible for the grant, it must produce a Strategic Recovery Planning Report. The purposed of this report is to evaluate the impacts of the disaster on the community and identify actions for recovery and reduced vulnerability. Numerous towns in Monmouth County have conducted these studies. It is important that the HMP discuss DCA's Post Sandy Assistance Grant and incorporate the findings of each municipal Strategic Recovery Planning Report into the overall HMP, recognizing the local hazard mitigation activities identified in each report.</p>	County Official	concur	URS will review and revise as appropriate	URS	Submitted to URS 11/21/14; will send CD of comments CD. URS: this comment was forwarded to Mike Oppogard to request copies of Strategic Recovery Planning Report; if available, a summary can be added to the final HMP or to the next update of the HMP.
11	<p>Appendix 1.3: FEMA Mitigation Strategy Workshops, 1c-Mid Monmouth, on Pg 2 change Bayshore to Mid Monmouth</p>	County Official	concur	URS will review and revise as appropriate	URS	Submitted to URS on 11/21/14. URS: edit made.

12	Appendix 1.3: FEMA Mitigation Strategy Workshops, 1d-South region, on Pg 2 change Western Region to South Region	County Official	concur	URS will review and revise as appropriate	URS	Submitted to URS on 11/21/14. <b>URS: edit made.</b>
13	Appendix 1.3 Meetings; 12/16/13 Steering Committee Meeting, no sign in sheet available, take out placeholder info	County Official	concur	URS will review and revise as appropriate	URS	Submitted to URS on 12/8/14. <b>URS: Placeholder note removed.</b>
14	Appendix 1.3 Meetings; 4/3/14 Steering Committee Meeting, no sign in sheet available, take out placeholder info	County Official	concur	URS will review and revise as appropriate	URS	Submitted to URS on 12/8/14. <b>URS: Placeholder note removed.</b>
15	Revisions to County Worksheet #7's. Completed revisions to #13, #17 and #19 on SharePoint	FEMA/State Official	concur	URS will review and revise as appropriate	URS	Submitted to URS on 12/8/14. <b>URS: Revised worksheets 13, 17, and 19 added to County worksheets in Appendix 1.9</b>
16	County Worksheets #7's: #10 and #11 are more preparedness/response than mitigation	FEMA/State Official	non-concur	County revised wording on #10 and #11, keep these two actions in the plan as part of the County Mitigation Strategy.	County/URS	Submitted to URS on 12/8/14. <b>URS: no edits made to HMP.</b>
17	Revisions to County Worksheet #7's. Completed revisions to #10, #11 and #15 on SharePoint	County Official	concur	URS will review and revise as appropriate	URS	Submitted to URS on 12/8/14. <b>URS: Revised worksheets 10, 11, and 15 added to County worksheets in Appendix 1.9.</b>
18	Revisions to County worksheet #6 (Plan Integration)	County Official	concur	URS will review and revise as appropriate	URS	Submitted to URS on 12/8/14. <b>Revised Worksheet 6 added to Appendix 1.8.</b>

#	Comment	Comment Submitted By	Disposition (Concur; non-concur; will evaluate)	Response	Responsible Party	Action taken
1	In Table 3d.3, and in an earlier table of population data, the number of which I did not note at the time, there is a projected increase of 8 in the population of Roosevelt from 2010 to 2040. However, the table then gives the total of 882 plus 8 as 902, when it should be 890, unless the intention was to say that the population would increase by 20, rather than 8. Actually, given that the population went down from 2000 to 2010, and no new housing is going to be built, it is quite likely that even an increase of 8 might not happen.	Roosevelt Municipal Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 10/31/14. URS: Table entry has been changed to correct value of 900 (Table 3d.1-2, Appendix 3.1)
2	In Table 3b.3, it says that Roosevelt has one police station. This is incorrect. Roosevelt has no local police and no police station.	Roosevelt Municipal Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 10/31/14. URS: edit made to HMP.
3	In Table 3b.4, it says that Roosevelt has two schools or childcare facilities. There used to be a separate pre-school in another building, but it is now part of the public school, which is now the only school or childcare facility in Roosevelt.	Roosevelt Municipal Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 10/31/14. URS: edit made to HMP.
4	Table 3c.27 refers to loss from coastal erosion. Since we are nowhere near the coast, we are not likely to have any loss from coastal erosion.	Roosevelt Municipal Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 10/31/14. URS: Concur; Table 3c.27 has a dollar value of \$0 for coastal erosion losses in Roosevelt.
5	Table 3d.10 refers to ten developable parcels, some of which are in flood-prone areas. Since the only flood-prone areas shown by the maps are in publicly-owned open space, and I can think of only five possible lots, or potential lots, where houses could be built in the whole municipality, I would be interested to know where those developable parcels are.	Roosevelt Municipal Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 10/31/14. URS: Concur; Roosevelt's entry in table has been removed.
6	How was the \$37,000 exposure of existing improvements for flood loss determined? Would this be at the sewage treatment plant? If you can, please provide more information about the risk that the plan identifies.	Roosevelt Municipal Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 10/31/14. URS: Yes, the sewage treatment plant is the existing improvement identified in the floodplain. The dollar amount shown in Table 3c.25 is the assessed building value in the floodplain (in this case, the sewage treatment plant).

7	In reviewing the plan, I see Oceanport is expected to have an increase in population of 35/39% over the next 30 years. That prompted this question: in doing Oceanport risk, was the property within Fort Monmouth, which is within our borders and will be add to our tax rolls, included in all matters?	Oceanport Official	Will evaluate; concur	URS will review	URS	URS: The parcel data GIS file we received from the County includes eleven parcels belonging to Fort Monmouth within Oceanport. Nine of these have a value in the Building Assessment field. The total building assessment value for the Fort parcels within Oceanport is \$15.4 million. These parcels were included in the analysis and are within the reported 'total assessed value of improvements' of \$518.6 million and taken into account when estimating damages. The population projections in Table 1.1 for year 2040 were provided to us by County Planning staff; (estimated by NJTPA, in consultation with County Planning).
8	Table 1.6 - I attended a meeting on August 12, 2013 that does not appear in the chart	Loch Arbour, Official	Will evaluate	No meeting scheduled on that date	County/URS	submitted to URS 11/7/14. URS: Per County response, no edit made to HMP.
9	Table 3c.23 - The Municipal Building should be included as a critical structure. It is within FIRM zone AE 10	Loch Arbour, Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/7/14. URS: While it is an important public facility, a Municipal Building does not meet the FEMA definition of a critical facility, which was applied to the HMP.
10	Table 4.4 - Missing: "In review of the capability assessment, the Village has classified all community response as moderate to high. The Village has actively worked to protect the shoreline along Edgemont Drive (Bulkhead replacement). To help protect future construction and residents, the Borough has adopted the State Model Flood Damage Prevention Ordinance	Loch Arbour, Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/7/14. URS: Edit made to Table 4.1 in HMP.
11	Table 4.3 - Missing items	Little Silver, Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/7/14. URS: Added check marks to "Capital Improvements Project Funding" and "Incur Debt through General Obligation Funds" categories
12	The Borough of Little Silver would like to add an additional worksheet 7 to support a regional dyke improvement to the Sandy Hook Inlet. The regional dyke system would protect the Navesink and Shrewsbury Rivers municipalities from storm surge	Little Silver, Official	Will evaluate; concur	Request URS include the additional worksheet 7 into the revised draft plan as an additional worksheet in Little Silver's mitigation strategy	County/URS	submitted to URS 11/7/14. URS: The additional worksheet for Little Silver has been added to Appendix 1.9.

13	<p>Table 3e.6 identifies the following Key Risk for Monmouth County: "... There is a disconnect in some communities between local master plans and floodplain management issues." Sometimes new hazard information and flood maps are not used to update zoning, resulting in poor land use decisions. This should be accounted for in the plan by encouraging a review and update of land use policies. Only 18 of the 54 municipalities indicated that they would update or change local planning and regulations as a mitigation action. This should be central to preparing townships for the increased hazards expected to occur with climate change. Some municipalities have developed ordinances to prevent development in the floodplain to reduce the number of people and structures at risk. This is a difficult but necessary change for municipalities to undertake and should be encouraged in all municipalities affected by flooding.</p>	NY/NJ Baykeeper	Will evaluate; concur	The County will work with the NY/NJ Baykeeper and the municipalities to clarify jurisdictional responsibility and cost of implementation for future action.	County and municipalities	submitted to URS 11/17/14. URS: No edit made to HMP.
14	<p>Although most municipalities are in compliance with the NFIP and require, or are now beginning to require, one foot of freeboard above base flood elevation (BFE), this does not provide a buffer against increasingly severe storms and flooding due to climate change and sea level rise. The Bayshore and coastal towns need to begin requiring a minimum of two feet of freeboard as a hazard mitigation action. This was seen as an efficient flood protection measure in Sea Bright where the houses that were raised to BFE plus two feet freeboard saw minimal, if any damage, even though flood water exceeded the state minimum one foot freeboard mark.</p>	NY/NJ Baykeeper	Will evaluate; concur	The County will work with the NY/NJ Baykeeper and the municipalities to clarify jurisdictional responsibility and cost of implementation for future action.	County and municipalities	submitted to URS 11/17/14. URS: No edit made to HMP.

15	Keansburg identified a project to buy vacant properties that were repetitively damaged and convert the land to open space. Keyport identified 9 flood-prone properties for acquisition. The state Blue Acres program was not listed as a potential funding source. The municipalities should look into working with Blue Acres to acquire the properties	NY/NJ Baykeeper	Will evaluate; concur	Forwarded to Keyport and Keansburg officials for review and consideration	Keyport and Keansburg	submitted to URS 11/17/14. <b>URS: No edit made to HMP.</b>
16	Section 3a page 59 discusses repetitive loss properties. These properties are a strain on already taxed financial resources and all municipalities with repetitive loss properties should have action plans on how to address these properties.	NY/NJ Baykeeper	Will evaluate; concur	The County will work with the NY/NJ Baykeeper and the municipalities to clarify jurisdictional responsibility and cost of implementation for future action.	County and municipalities	submitted to URS 11/17/14. <b>URS: No edit made to HMP.</b>
17	The county as well as a small portion (~30%) of municipalities included a proposed action of starting a public outreach program to inform residents of natural hazard risks and how to prepare themselves and their property. We highly support this initiative and are pleased to see that so many municipalities are taking action on this. The majority of municipalities, however, did not include an outreach action of this nature. What is the reason that these municipalities have not included this low cost initiative? Do they already have such programs in place?	NY/NJ Baykeeper	Will evaluate; concur	The County will work with the NY/NJ Baykeeper and the municipalities to clarify jurisdictional responsibility and cost of implementation for future action.	County and municipalities	submitted to URS 11/17/14. <b>URS: No edit made to HMP.</b>
18	P3a-13: The Township of Neptune had several wind issues as a result of Sandy. Two (2) radio towers had the top section sheared off as a result of Sandy, the Ocean Grove Auditorium lost a portion of the roof as a result of Sandy and the Unexcelled Fire Company located along Highway #33 suffered roof damage and partial collapse as a result of Sandy	Neptune Township Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/17/14. <b>URS: Text added to page 3a.13 to describe wind issues related to Sandy.</b>

19	P 3a-30: Neptune Township suffered Beach Erosion during the 1992 Northeast. Ocean Grove also lost portions of the boardwalk during this storm and there was localized flooding. There were evacuations along North Island/South Concourse area along with localized flooding. In the Shark River Hills area there were road closures and localized flooding along with property damage	Neptune Township Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/17/14. URS: text added to page 3a.30.
20	P3a-33: Table 3a.11 Revise Table to show magnitude one (1) Tornado EF0	Neptune Township Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/17/14. URS: Table 3a.11 revised to show one EF0 tornado in Neptune Township.
21	P3a-55: Under "other notable events" add the following for Neptune: The Shark River Hills and North Island section of Neptune frequently floods on moon high tides, heavy rains and certain storm events. There are been some recent mitigation projects in this area, but more mitigation is needed to protect both homes and infrastructure. The Ocean Grove Section of Neptune experiences flooding during certain tidal and heavy rain events. The coastal lakes, Fletcher and Wesley also present issues during high tides and heavy rains	Neptune Township Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/17/14. URS: Text added to describe flooding events on page 3a.58.
22	P 3a-61: The map does not show repetitive losses in the Neptune area. Based on current information there are repetitive loses in both the Ocean Grove and the Shark River Hills area of Neptune.	Neptune Township Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/17/14. URS: map revised to show repetitive loss clusters in Ocean Grove and Shark River Hills sections of Neptune Township.
23	P3a-68: Historical Occurrences-Wave Action: Sections of Shark River Hills in Neptune Township experienced wave action during Sandy. The wave action encroached this area for approximately one (1) block. The Ocean Grove section of Neptune Township experienced wave action during Sandy and also during the 1992 Northeast storm. This wave action took out the fishing pier portions of the boardwalk and dunes during Sandy. During the 1992 Northeast sections of the boardwalk were lost along with some dune damage	Neptune Township Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/17/14. URS: Text added to describe historical occurrences of wave action, page 3a.73.

24	P3b-1 Table 3b.1: Neptune Township has 11125 parcels, 10730 are improved and the total assessed value of improvements is \$1,631,836,200. These updated numbers shall be carried through all the tables and calculations	Neptune Township Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/17/14. URS: Valuations and parcel counts for all municipalities were taken from 2012 parcel data provided by Monmouth County. These values have not been updated to 2014 levels.
25	P3b-3 Table 3b.2: Neptune Townships has one (1) EOC and six (6) fire Stations	Neptune Township Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/17/14. URS: Edit made to Table 3b.2.
26	P3b-4 Table 3b.3: Neptune Township has one (1) Potable Water Treatment Facility and zero (0) airports	Neptune Township Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/17/14. URS: Edit made to Table 3b.3.
27	P3-6 Table 3b.4: Update charts for Schools/Child Care to fifteen (15) and Senior Care Facilities to four (4)	Neptune Township Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/17/14. URS: Edit made to Table 3b.4.
28	P3c-34 under Flood Impacts Add the following: In the Township of Neptune there are several areas that experience flooding for different reasons. In Shark River Hills section high tides, moon tides and heavy rain produce flooding along low lying roadways and properties. There are residential properties and critical infrastructure, pump stations in this area that experience flooding	Neptune Township Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/17/14. URS: Text added to page 3c-34.
29	P3c-34 under Flood Impacts Add the following: In the Township of Neptune, North Island along South Concourse, this area also experiences flooding due to high tides, winds, moon tides and heavy rains. Residents frequently have to be evacuated. The flooding impacts businesses, residents and critical infrastructure, pump stations, in this area.	Neptune Township Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/17/14. URS: Text added to page 3c-34.
30	In the Ocean Grove section of Neptune Township the area around Fletcher Lake frequently floods during heavy rains and high tides	Neptune Township Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/17/14. URS: Text added to page 3c-34.
31	P 3c-41: The use of the decimal point for the Table is confusing. No other tables have the decimal point for the cents and it makes the numbers look unusually large. Just a comment	Neptune Township Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/17/14. URS: Concur; decimal points for cents have been removed.

32	P 3c-65 Table 3c.23: There are five (5) public works buildings located in the Flood Zone, two (2) located in the Storm Surge Area, one (1) in the Coastal Erosion zone, two(2) in the wildfire zone.. For Schools/Child Care Facilities there are zero (0) in the Storm Surge area and one (1) in the Wildfire area. There are two (2) Senior Care Facilities in the Storm Surge area	Neptune Township Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/17/14. URS: Table 3c.23 has been revised.
33	P 3c-72: Table 3c.24: Ocean Grove is defined as the entire community from the Atlantic Ocean to the east to Highway #71 to the west, Fletcher Lake to the south and Wesley Lake to the North. The following columns should be checked: Flood/Wave Action /Storm Surge/Coastal Erosion/and Added if Moderate Sea Level Rise by 2050	Neptune Township Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/17/14. URS: The geographic description of Ocean Grove has been added to the table.
34	Page3d-7: Table has no header	Neptune Township Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/17/14. URS: This has been fixed in the text.
35	Page 3d-14: The total number of Open Space is 212.04 acres based on the 2012 ROSI. Table 3d.6 should be updated with this information	Neptune Township Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/17/14. URS: Table 3d.6 lists parcels of open space, and not acreages. For further information on methods used, please see footnote on page 3d.32, Section 3 - Land Use and Development Trends.
36	Page 3d-33: Add the following to Regulations/Codes/Ordinances to Protect New Development from Natural Hazards," All applicable development has to also comply with stormwater regulations."	Neptune Township Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/17/14. URS: Text added to HMP, page 3d-27, Table 3d.4.
37	See revision to Community Action #2 - added some verbiage about Flood Risk Reduction Infrastructure Improvements along the creek.	Atlantic Highlands Official	Will evaluate; concur	URS will review and revise as documented	URS	submitted to URS 11/17/14. URS: Revised worksheet has been added to appendix.
38	Under military installations, why doesn't it list NWS Earle?	Ocean Twp. Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/17/14. URS: Text has been added to Section 1 to include NWS Earle in the description of military installations.
39	Table 1.6 states that Ocean is a part of the steering committee and failed to attend a meeting. I didn't realize I was a part of that committee nor did I receive any emails about attending a meeting.	Ocean Twp. Official	Will evaluate; concur	County responded directly regarding this comment. Ocean Township was not part of the Steering Committee, therefore, there would be no check mark for Ocean Township in those columns.	County	Explanation emailed directly to Ocean Township official. URS: no edit made to HMP.

40	Why wasn't hailstorm added to the Hazard ID and if it's not listed and we get a damaging hail storm, would that affect mitigation money HMGP?	Ocean Twp. Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/17/14. URS: From the review of historical hazards and events, hailstorm was not found to be a significant hazard in Monmouth County.
41	Table 3A.1....dam failure...we had an issue with the Mayer Dam where it didn't breach but it didn't work properly causing a flooding issue. Would that count?	Ocean Twp. Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/17/14. URS: No, "dam failure" is defined as breaching of the dam structure. No edits made to HMP.
42	Add additional project worksheet to address Flooding on Sea Girt Avenue at Rt. 71	Sea Girt Official	Will evaluate; concur	Request URS include the additional worksheet 7 into the revised draft plan as an additional worksheet in Sea Girt's mitigation strategy	County/URS	Emailed worksheet to URS on 11/17/14; submitted on spreadsheet 11/19/14. URS: The additional Worksheet 7 has been added to Appendix 1.9
43	Worksheet #1: Remove Stephen Pfeffer as CFO and replace with Thomas Fallon. The email address should also be updated to tfallon@tintonfalls.com; Remove Gerald Turning as Administrator and replace with Michael Muscillo. The email address should also be updated to mmuscillo@tintonfalls.com; Remove Mike Skudera as Mayor and replace with Gerald M. Turning Sr. The email address should also be updated to mayor@tintonfalls.com	Tinton Falls Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS on 11/19/14. URS: Edits made to Worksheet #1.
44	Worksheet #6: Line Item #6.A, page 3 of 5, I recommend the activity be checked as undertaken in the past five years; Line Item #6.B, page 3 of 5, I recommend the following text be inserted "The OEM has been significantly overhauled and strengthened in recent years. Response during emergency situations has improved dramatically. The Borough has made significant investments and commitments to equipment, policy updates, training, and personnel."; Line Item #8.A, page 3 of 5, I recommend the activity be checked as undertaken in the past 5 years; Line Item #7, page 5 of 5, I recommend that activity be unchecked; Line Item #12, page 5 of 5, I recommend that activity be unchecked	Tinton Falls Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS on 11/19/14. URS: Edits made to Worksheet #6 as indicated.
45	Red-lined Worksheet #1 with recommended updates	Rumson Official	Will evaluate; concur	URS will review and revise as appropriate	URS	Forwarded email directly to URS 11/17/14; submitted with spreadsheet on 11/19/14; will send CD of comments. URS: Red-lined Worksheet #1 has been added to Appendix 1.2

46	Red-lined Worksheet #6 with recommended updates	Rumson Official	Will evaluate; concur	URS will review and revise as appropriate	URS	Forwarded email directly to URS 11/17/14; submitted with spreadsheet on 11/19/14; will send CD of comments. <b>URS: Red-lined Worksheet #6 has been added to Appendix 1.8.</b>
47	Red-lined Worksheet #7, Community Action Numbers 1 through 11 with recommended updates	Rumson Official	Will evaluate; concur	URS will review and revise as appropriate	URS	Forwarded email directly to URS 11/17/14; submitted with spreadsheet on 11/19/14; will send CD of comments. <b>URS: Revisions to worksheets have been made to Appendix 1.9</b>
48	Worksheet #7 Community Action Numbers 12 through 21 recommended 'New Actions'	Rumson Official	Will evaluate; concur	<i>Request URS include the additional worksheet 7 into the revised draft plan as an additional worksheet in Rumson's mitigation strategy</i>	URS	Forwarded email directly to URS 11/17/14; submitted with spreadsheet on 11/19/14; will send CD of comments. <b>URS: New worksheets have been added to Appendix 1.9</b>
49	PDF Page 52 – Table 2.2 states that FEMA Q3 data was used for the hazard identification, however Section 3 indicates that the newer Preliminary Maps from 2013 were used. Suggest revision to Table 2.2 to be consistent with Section 3.	Rumson Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS on 11/19/14; will send CD of comments. <b>URS: Concur, Table 2.2 edited to be consistent with Section 3. Reference to Q3 mapping replaced with reference to 2013 Preliminary maps.</b>
50	PDF Page 104 – First paragraph, first sentence, change word "bother" to "both"	Rumson Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS on 11/19/14; will send CD of comments. <b>URS: Edit made.</b>
51	PDF Page 114 – Revise number of Non Mitigated Repetitive Loss Properties in Table 3a.15 from 86 to 41 to reflect Post-Sandy mitigation success in Rumson. Other loss information in the table will need to be revised as well. The Borough can provide a list of RL and SRL properties that have been mitigated via elevation or demolition.	Rumson Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS on 11/19/14; will send CD of comments. <b>URS: Table has been edited to change number of repetitive loss properties from 86 to 41.</b>
52	PDF Page 190 – Table 3c.14, suggest rounding the Estimated Potential Losses to reflect the same level of precision as the other information in the table.	Rumson Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS on 11/19/14; will send CD of comments. <b>URS: Edit made to remove cents from dollar amounts.</b>
53	New Project worksheet #7 Action 8-Flood barrier at the mouth of the Shrewsbury River	Highlands Official	Will evaluate; concur	<i>Request URS include the additional worksheet 7 into the revised draft plan as an additional worksheet in mitigation strategy</i>	URS	worksheet emailed to URS on 11/19/14. <b>URS: New worksheet added to Appendix 1.9.</b>
54	New Project worksheet #7 Action 9-Flood barrier at the mouth of the Shrewsbury River	Oceanport Official	Will evaluate; concur	<i>Request URS include the additional worksheet 7 into the revised draft plan as an additional worksheet in Oceanport's mitigation strategy</i>	URS	worksheet emailed to URS on 11/3/14 directly from Oceanport Official. <b>URS: New worksheet added to Appendix 1.9.</b>

55	<p><u>Table 3c.11</u> Using MOD IV parcels extracted on 04/02/14 and the Preliminary FIS from 01/21/2014, we have calculated building exposure values in the same way as in the Multi-Jurisdictional Natural Hazard Mitigation Plan. The building assessment value referenced in the document comes from the Building Assmnt field in the parcel data. Our calculations differ. The likely reason for the difference between the two tables stems from the different data inputs used in the analysis. The parcel layer, MOD-IV assessment values and floodplain boundaries used in the original analysis for the Mitigation Plan are older versions and, therefore, yield different results as compared to newer datasets. We feel that the discrepancy in data presented in these results warrants a re-analysis by the consultant, URS.</p>	Keansburg Official	Will evaluate; concur	URS will review and revise as appropriate	URS	<p>submitted to URS 11/19/14; comments will be sent on CD. <b>URS: The hazard analysis performed on all municipalities was done using 2012 data (most current available at that time). To keep consistency in report, no reanalysis with 2014 data has been done. The County can incorporate 2014 (or later) data in the next update to the HMP.</b></p>
56	<p><u>Table 3c.26</u> Using Census Blocks from 2010 and the Preliminary FIS from 01/21/2014, we also calculated the number of at-risk people the same method as in the Multi-Jurisdictional Natural Hazard Mitigation Plan. In addition to the Preliminary FIS, the storm surge data comes from the SLOSH surge model. Our calculations, using the aforementioned data, differ from the calculations in the Draft Plan. The percentages are extremely close, within a percentage point to be exact. This shows that the values represented in the Multi-Jurisdictional Natural Hazard Mitigation Plan represent Keansburg well in comparison to other jurisdictions. The method used in the plan is not meant to give the exact population in the floodplain, but can give a rough estimate and means to compare the municipalities. The discrepancies between two tables are due to the fact that the Multi-Jurisdictional Natural Hazard Mitigation Plan used a 2013 floodplain. The numbers used to check the plan are based on the 2014 Preliminary FIS which is likely a later, more refined version of the 2013 floodplain used in the plan.</p>	Keansburg Official	Will evaluate	URS will review and revise as appropriate	URS	<p>submitted to URS 11/19/14; comments will be sent on CD. <b>URS: Concur, no edits made to HMP.</b></p>

57	<p><u>Table 3c.28</u> Without re-running HAZUS to obtain the multiple returns, the only statement that can be made on this table is that the values in the table appear to be accurate in comparison to other jurisdictions. For example, the Annualized Loss Ratio for Storm Surge in Keansburg is the highest in the county. As shown in Figure 1, most of Keansburg is inundated with a Category 1 Hurricane. Additionally, The Annualized Loss Ratio for Riverine Flooding is the 2<sup>nd</sup> highest in the county. Wave action losses are low simply because there is little area covered by VE zones in Keansburg. The flood zones in Keansburg are represented in Figure 2.</p>	Keansburg Official	Will evaluate	URS will review	URS	submitted to URS 11/19/14; comments will be sent on CD. URS: No edits made to HMP.
58	<p><u>Table 3d.8</u> The Land Uses and Development Trends in this table appear to accurately reflect those of the Borough. The Regulations/Codes/Ordinances to Protect New Development from Natural Hazards should be revised to note that the Borough has enacted a Floodplain Management Ordinance, and that it was most recently amended on March 27, 2013. This Ordinance establishes area of Coastal Hazards and Coastal High Hazards. It institutes the need for a development permit for any development within any area of special flood hazard, lists provisions for Flood Hazard Reduction as it relates to Anchoring, Construction Materials and Methods, Utilities, Subdivisions and Enclosures. The Floodplain Management Ordinance sets specific requirements, including minimum elevations and other such building standards for Residential and Non-Residential Construction to the most restrictive current standards. It should also be noted that the Borough is currently moving forward with DCA funded updates to the current Floodplain Management Ordinance.</p>	Keansburg Official	Will evaluate	URS will review and revise as appropriate	URS	submitted to URS 11/19/14; comments will be sent on CD. <b>URS: Text provided in comment has been added to Table 3.d4.</b>
59	<p><u>Table 3d.18</u> Storm Water Ordinance 1422 has been adopted and is currently being enforced within the Borough; therefore Keansburg should be receiving credit for this column. The column header reads "Adopt (or continue to enforce) a local stormwater management plan/ordinance." By this language, the Borough qualifies to be credited in this column as they have the ordinance and it is still enforced.</p>	Keansburg Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/19/14; comments will be sent on CD. <b>URS: A dot has been added to Table 3d.18 to the column "Adopt (or continue to enforce) a local stormwater management plan/ordinance" for Keansburg. NOTE: Dots added to columns 2b, 4c, 8, 14, and 15 (see comments below).</b>

60	<u>Section 7, Pages 7 – 9 2b:</u> This should be credited based on the fact that mitigation projects have been formulated for Keansburg and are present in the appendix of the master plan. Additionally, the Borough is currently moving forward with DCA funded Master Plan Updates, including Hazard Mitigation	Keansburg Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/19/14; comments will be sent on CD. <b>URS: A dot has been added to page 7-9.</b>
61	<u>Section 7, Pages 7 – 9 4c:</u> Keansburg has received written confirmation that will join the NFIP's Community Rating System at the class 7 level effective May 1, 2015, therefore Keansburg should be given a dot for this column.	Keansburg Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/19/14; comments will be sent on CD. <b>URS: A dot has been added to page 7-9.</b>
62	<u>Section 7, Pages 7 – 9: 8:</u> As a line has been included in the Borough of Keansburg Municipal Budget for mitigation projects, this column should receive a dot.	Keansburg Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/19/14; comments will be sent on CD. <b>URS: A dot has been added to page 7-9.</b>
63	<u>Section 7, Pages 7 – 9: 14:</u> The Borough has held several meetings regarding technical assistance with natural hazard mitigation activities with the Jacques Cousteau National Estuarine Research Reserve of Rutgers University, therefore this column should receive a dot.	Keansburg Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/19/14; comments will be sent on CD. <b>URS: A dot has been added to page 7-9.</b>
64	<u>Section 7, Pages 7 – 9: 15:</u> As Keansburg is currently and will continue to enforce the previously adopted ordinance, this column should receive a dot.	Keansburg Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/19/14; comments will be sent on CD. <b>URS: A dot has been added to page 7-9.</b>
65	<u>Monmouth County Multi-Jurisdictional Hazard Mitigation Plan – Action Worksheet Revision Action Work Sheet</u> regarding Community Action Number 7 for the Borough of Keansburg has been revised to reflect that the Blue Acres Grant Program is a potential funding source for the Purchasing of vacant homes throughout the Borough for flood mitigation. The Borough is currently actively pursuing the use of Blue Acres Grant funding for this purpose, and currently has ongoing coordination with the Blue Acres Grant Program regarding same.	Keansburg Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/19/14; comments will be sent on CD. <b>URS: Worksheet 7 for Community Action 7 has been revised to note Blue Acres as a potential funding source.</b>
66	pg: 3b-3 We only have 1 fire station not 2	Sea Bright Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/24/14. <b>URS: Table edited.</b>
67	pg: 3c-58 I see no possibility of loss by wildfire	Sea Bright Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/24/14. <b>URS: The wildfire analysis showed areas of "Low" risk along waterfront, comprising 4% of the building improvement value in the community. No edits made to HMP.</b>

68	pg:3c-66 We have no landslide exposure	Sea Bright Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/24/14. URS: Concur; Table 3c.23 has been edited.
69	pg:3d-5 We have substantially more open space than stated if you consider our beach	Sea Bright Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/24/14. URS: HMP cites open space totals provided in Monmouth County Profile, 2012. County officials have stated that the category "County-owned Parkland, Conservation Areas, and Golf Courses" does not include beaches. Municipal totals may include beaches, and County planning staff will provide further clarification on this point.
70	pg: 3d-14 Again this leaves the beach out of the equation	Sea Bright Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/24/14. URS: Please see response to Comment #69.
71	pg: 3d-51 I think that the parcel count on wave damage may be too high if they are talking about direct wave impact, all of our damage was due to wave run up	Sea Bright Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/24/14. URS: Parcel counts were obtained used VE-zones as mapped in FEMA's Preliminary DFIRM flood mapping. VE zones are areas where a 3-foot breaking wave (or higher) can impact structures.
72	Page 141: EOC(1) Fire(6) Police(1)	Wall Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/24/14. URS: Edits made to table.
73	Page 143: "Critical Infrastructure and Utilities by Jurisdiction" Wastewater Treatment Facilities(6)	Wall Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/24/14. URS: Edits made to table.
74	Page 144 "Other Critical Facilities by Jurisdiction" Wall Township Public Schools (7) Child Care Facilities/Other Schools (16) Total Schools: 23 Senior Care Facilities (9)	Wall Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/24/14. URS: Edits made to table.
75	Add "Blue Acres Funding" to Acquisition worksheet 7	Keyport Official	Will evaluate; concur	Keyport Acquisition worksheet 7 modified by County on Share point; URS will review and revise as appropriate	URS	submitted to URS 11/24/14. URS: Edit made to Worksheet 7
76	Add worksheet 7 for Sea Wall construction	Monmouth Beach Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/26/14; worksheet will be sent on CD. URS: New Worksheet 7 added to Appendix 1.9.
77	The Borough of Spring Lake Heights makes a recommendation that the following projects be included in the draft Hazard Mitigation Plan: Storm sewer modifications including storm sewer pumping stations along the northern boundaries of Wreck Pond within the Borough of Spring Lake Heights.	Spring Lake Heights Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/26/14; worksheet will be sent on CD. URS: New Worksheet 7 added to Appendix 1.9.
78	The Borough of Spring Lake Heights makes a recommendation that the following projects be included in the draft Hazard Mitigation Plan: The installation of a "living berm" to manage higher flood levels associated with future storm events	Spring Lake Heights Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/26/14; worksheet will be sent on CD. URS: New Worksheet 7 added to Appendix 1.9.

79	The Borough of Spring Lake Heights makes a recommendation that the following projects be included in the draft Hazard Mitigation Plan: Dredging of Wreck Pond in conjunction with the Reduction of Existing Sediments in Wreck Pond and Black Creek through storm sewer modifications and associated runoff mitigation measures.	Spring Lake Heights Official	Will evaluate; concur	URS will review and revise as appropriate	URS	submitted to URS 11/26/14; worksheet will be sent on CD. <b>URS: New Worksheet 7 added to Appendix 1.9.</b>
80	Page 140 (Page 3b-2)Table 3b.2 should read 2 Fire Stations	Colts Neck Official	Will evaluate; concur	URS will review and revise as appropriate	URS	Submitted to URS 12/8/14. <b>URS: Edit made to table.</b>
81	Page 143 (Page 3b-5)Table 3b.4 should read 6 Schools/Child Care Facilities	Colts Neck Official	Will evaluate; concur	URS will review and revise as appropriate	URS	Submitted to URS 12/8/14. <b>URS: Edit made to table.</b>
82	1 First Aid Station	Colts Neck Official	Will evaluate; concur	URS will review and revise as appropriate	URS	Submitted to URS 12/8/14. <b>URS: First Aid stations are not considered critical facilities.</b>
83	page 3b-2, Howell Township has 1 EOC and 7 fire stations	Howell Township Official	Will evaluate; concur	URS will review and revise as appropriate	URS	Submitted to URS 12/8/14. <b>URS: Edit made to table.</b>
84	on page 3.d-30, the paragraph should read "Route 33" not "Route 35"	Howell Township Official	Will evaluate; concur	URS will review and revise as appropriate	URS	Submitted to URS 12/8/14. <b>URS: Edit made to text.</b>
85	TABLE 4.2: Add√ to "Planner(s)or Engineer(s) with.....human caused hazards	Bradley Beach Official	Will evaluate; concur	URS will review and revise as appropriate	URS	Submitted to URS 12/8/14. <b>URS: Added check mark to table.</b>
86	TABLE 6.2: Add ◻(solid square symbol) to "Natural Systems Protection".	Bradley Beach Official	Will evaluate; concur	URS will review and revise as appropriate	URS	Submitted to URS 12/8/14. <b>URS: Added square symbol to "Natural Systems Protection".</b>
87	TABLE 3c.24: Bradley Beach Railroad Station, Under Location Column: Change Memorial Parkway to Memorial Drive, capitalize Avenue	Bradley Beach Official	Will evaluate; concur	URS will review and revise as appropriate	URS	Submitted to URS 12/8/14. <b>URS: Text edits made</b>
88	Page 1-20, the Joint Meeting CPG and Municipal Coordinators meeting on 07/10/14, the Borough of Spring Lake Heights had a representative in attendance	Spring Lake Heights Official	Will evaluate; concur	URS will review and revise as appropriate	URS	Submitted to URS 12/8/14. <b>URS: Edit made to text</b>

#	Comment	Comment Submitted By	Comment Submitted To	Comment Submitted on Date	How was comment submitted?	Disposition (Concur; non-concur; will evaluate)	Response	Responsible Party	Action taken
1	<b>Flood Mitigation in Shrewsbury and Navesink Watershed Area</b>	Resident, Oceanport	County	10/29/2014	Email to County	Municipalities should evaluate	Sent to municipal officials for response	Numerous Municipalities	Oceanport completed a worksheet 7 to document the project and include in their Mitigation Strategy. Submitted to URS 11/7/14. <b>URS: new Worksheet 7 added to Appendix 1.9.</b>
2	I live in Aberdeen (Strathmore) and my home borders Mohingson Creek. The water level in the creek rises a bit during big storms, but it's never been a concern for me. However, during Hurricane Irene in 2011, the water level got extremely high and almost reached my backyard which rises well above the normal water level in the creek. I've walked along the creek and there are many large downed trees and other things blocking the flow of the water in the creek. There are times when the water appears almost stagnant near my house due to the many downed trees that are blocking the normal flow of the water.	Resident, Aberdeen	County	10/30/2014	Email to County	Aberdeen should evaluate	Sent to Aberdeen officials for review	Aberdeen Township	Aberdeen Officials will evaluate the area in question; submitted to URS 11/7/14. <b>URS: no edits made to Hazard Mitigation Plan (HMP).</b>
3	Table 6.1 Subset of Action Types Considered to Achieve Mitigation Goals. Page 6-4 (pdf p. 338). 4.H. Implement identified stormwater recharge, rate or volume projects identified in Regional Stormwater Management Plans to decrease "flash" in streams during/after storm events. Add: "Municipal Stormwater Management Plans" as well as regional. Rationale: there are only a few RSMPs in Monmouth County, but every municipality has a MSMP.	Resident, Middletown	County	11/6/2014	Email to County	County to evaluate; the County concurs	Request URS make the change in Table 6.1	County	Request URS make the change in Table 6.1; submitted to URS 11/7/14. <b>URS: added "Municipal Stormwater Management Plans" to Table 6.1, item 4.H.</b>
4	Table 6.1 Subset of Action Types Considered to Achieve Mitigation Goals. Page 6-3 (pdf p. 337). 2.D Support and fund Community Emergency Response Team (CERT) programs that also include a mitigation component. Add to 2.D (or as a new Action Number 2.H): "Support and fund policies and programs that require all government workers to report to work during a declared emergency as an essential component of a mitigation strategy."	Resident, Middletown	County	11/6/2014	Email to County	County to evaluate; non concur	Sounds like a viable option, but at this time proposed legislation S1717, which is in direct contradiction, has been discussed with the NJ Association of Counties and until which time the pending legislation is revised or resubmitted, no action will be taken on this comment.	County	No action taken at this time; submitted to URS 11/7/14. <b>URS: no edits made to HMP.</b>
5	Lack of seawall protection in front of Monmouth Beach Bathing Pavilion, in the southern end of town. There is considerable seawall protection immediately north and south of this small section (only about 650 linear feet), concentrating the local vulnerability to this small section of town (potentially affecting homes from the ocean all the way west to the river) in the event of another serious storm. This gap in the seawall can be seen on the current Google Earth image from 2013, immediately after beach replenishment. Also evident in the Google Earth image is the lack of dunes in this area; the small dunes that had been there previously were destroyed by Sandy. The Army Corp of Engineers will not consider dunes in Monmouth County. Monmouth Beach's submission in the Draft Multi-Jurisdictional Hazard Mitigation Plan, includes six Action Worksheets, however, noticeably absent is any consideration of extension of the seawall across this 650 foot gap, despite the request for funds to raise the height of the seawall that protects the entire eastern border of town (except for this gap) by three feet.	Resident, Monmouth Beach	County	11/18/2014	Email to County	Monmouth Beach officials should evaluate	Email forwarded to Monmouth Beach officials for review and consideration	Borough of Monmouth Beach	Submitted to URS 11/19/14. <b>URS: no edits made to HMP.</b>

**APPENDIX 1.2 – WORKSHEET 1: PLANNING COMMITTEE  
MEMBERSHIP INFORMATION**

**Please fill in the contact details for the person filling in this page:**

Name: Margaret Murnane  
 Title: Deputy Coordinator, OEM  
 Representing: MONMOUTH COUNTY  
 Email: [mmurnane@mcsonj.org](mailto:mmurnane@mcsonj.org)  
 Phone: 732-431-7400

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Edward Sampson	<a href="mailto:Edward.Sampson@co.monmouth.nj.us">Edward.Sampson@co.monmouth.nj.us</a>	732-431-7460	7/31/2012	yes
Emergency Manager	Mike Oppegaard	<a href="mailto:moppegaard@mcsonj.org">moppegaard@mcsonj.org</a>	732-577-5799	7/31/2012	yes
Floodplain Manager/ Floodplain Administrator	Administered at the local level				
Public Works Director / City Engineer	John Tobia	<a href="mailto:John.Tobia@co.monmouth.nj.us">John.Tobia@co.monmouth.nj.us</a>	732-683-8758	7/31/2012	yes
Building Code Official	Administered at the local level			7/31/2012	
Fiscal/Budget Officer	Craig Marshall	<a href="mailto:Craig.Marshall@co.monmouth.nj.us">Craig.Marshall@co.monmouth.nj.us</a>	732-431-7391	7/31/2012	yes
Manager/Administrator	Teri O'Connor	<a href="mailto:Teri.O'Connor@co.monmouth.nj.us">Teri.O'Connor@co.monmouth.nj.us</a>	732-431-7384	7/31/2012	yes
Elected Officials					
Other 1:	Sheriff Shaun Golden	<a href="mailto:SheriffGolden@mcsonj.org">SheriffGolden@mcsonj.org</a>	732-431-7139	7/31/2012	yes
Other 2:	Freeholder Tom Arnone	<a href="mailto:Thomas.Arone@co.monmouth.nj.us">Thomas.Arone@co.monmouth.nj.us</a>	732-431-7396	7/31/2012	yes
Other 3:	Freeholder Lillian Burry	<a href="mailto:Lillian.Burry@co.monmouth.nj.us">Lillian.Burry@co.monmouth.nj.us</a>	732-683-8855	7/31/2012	yes

MONMOUTH COUNTY STEERING COMMITTEE		
Name	Position Title	Agency/Department
Lisa Auermuller	Watershed Coordinator	Jacques Cousteau National Estuarine Research Reserve
Buzz Baldanza	Oceanport Emergency Management Coordinator	Municipal Representative-Oceanport
Joseph Barris	Assistant Director	Monmouth County Planning Board
Mike Bascom	Neptune Twp. Emergency Management Coordinator	Municipal Representative-Neptune
Linda Brennan	Supervisor, Environmental and Sustainability Planning	Monmouth County Planning Board
James Cerreta	Assistant Director	Monmouth County Department of Public Works and Engineering
Jerry Cevetello	Executive Director	Manasquan River Regional Sewerage Authority
John Ciuffo	Executive Director	Monmouth County Economic Development
Robert Compton	Superintendent	Monmouth County Department of Buildings and Grounds
Robert Dawson	Undersheriff	Monmouth County Sheriff's Office
Jackie Defelice	External Affairs Liaison	First Energy Corp., Jersey Central Power and Light (JCP&L)
Inkyung Englehart	Principal Engineer	Monmouth County Department of Public Works and Engineering
Joe Ettore	County Engineer	Monmouth County Department of Public Works and Engineering
Amy Fitzgerald	Director	Monmouth County Economic Development
Paul Gleitz	Principal Park Planner	Monmouth County Park System
Shaun Golden	Sheriff	Monmouth County Sheriff's Office
Joel Grimm	Environmental Health Specialist, Hazmat	Monmouth County Health Department
Dave Krzyzanowski	Supervisor	Monmouth County Department of Buildings and Grounds
Jessica Kubida	Environmental Specialist	Monmouth County Department of Public Works and Engineering
Meghan Leavey	GIS Coordinator	Monmouth County Planning Board
Mariana Leckner	Director	Leckner Consulting
Tony MacDonald	Director	Monmouth University-Urban Coast Institute
Jim Markey	External Affairs Liaison	First Energy Corp., Jersey Central Power and Light (JCP&L)
Holly McGovern	Senior Engineer-Pipeline Integrity	New Jersey Natural Gas
Mike Meddis	Health Officer	Monmouth County Health Department
Michele Menditto	Public Health Planner	Monmouth County Health Department
Margaret Murnane Brooks	Deputy Coordinator, Emergency Management	Monmouth County Sheriff's Office
Stewart Newman	Solid Waste Coordinator	Monmouth County Department of Public Works and Engineering
Teri O'Connor	Monmouth County Administrator	Monmouth County Administrator
Mike Oppegaard	Coordinator, Emergency Management	Monmouth County Sheriff's Office
Ryan Orgera	Sandy Recovery and Coastal Resilience	Monmouth University-Urban Coast Institute
Scott Para	Manager, Operations Security	NJ American Water Company
Richard Pillar	Landscape Architect	Monmouth County Park System
Sharon Rafter	Assistant Director, Community Development	Monmouth County Division of Planning
Owen Redmond	Director, Community Development	Monmouth County Division of Planning
Charlie Rogers	Middletown Emergency Management Coordinator	Municipal Representative-Middletown
Edward Sampson	Director	Monmouth County Planning Board
Joseph Santora	Superintendent, Division of Highways	Monmouth County Department of Public Works and Engineering
Turner Shell	Environmental Specialist	Monmouth County Department of Public Works and Engineering
Vicki Thompson	Superintendent	Monmouth County Mosquito Extermination Commission
John Tobia	Director	Monmouth County Department of Public Works and Engineering

**Please fill in the contact details for the person filling in this page:**

Name: John Powers  
 Title: OEM Coordinator  
 Representing: ABERDEEN, TOWNSHIP OF  
 Email: [john.powers@aberdeenni.org](mailto:john.powers@aberdeenni.org)  
 Phone: 732-583-4200 ext. 221

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	John Maczuga- T & M Associates	<a href="mailto:jmaczuga@tandmassociates.com">Jmaczuga@tandmassociates.com</a>	732-671-6400	3/10/2013	Yes
Emergency Manager	John T. Powers - OEM Coordinator	<a href="mailto:john.powers@aberdeenni.org">john.powers@aberdeenni.org</a>	732-583-4200 ext.221	7/11/2012	Y - Representative
Floodplain Manager/ Floodplain Administrator	John Quinn	<a href="mailto:john.quinn@aberdeenni.org">john.quinn@aberdeenni.org</a>	732-583-4200 ext 121	7/11/2012	Yes
Public Works Director / City Engineer	Robert Brady - Director of Public Works	<a href="mailto:bob.brady@aberdeenni.org">bob.brady@aberdeenni.org</a>	732-583-4200 ext. 400		Y - Alternate
Building Code Official	John Quinn	<a href="mailto:john.quinn@aberdeenni.org">john.quinn@aberdeenni.org</a>	732-583-4200 ext 121		Yes
Fiscal/Budget Officer	Angela Morin	<a href="mailto:angela.morin@aberdeenni.org">angela.morin@aberdeenni.org</a>	732-583-4200 ext 128	3/10/2013	Yes
Manager/Administrator	Holly Rey craft - Township Manager	<a href="mailto:holly.reycraft@aberdeenni.org">holly.reycraft@aberdeenni.org</a>	732-583-4200 ext 117	7/11/2012	Y-Authorizing Individual
Elected Officials	Fred Tagliarini, Mayor Margaret Montone, Deputy Mayor	<a href="mailto:ftagliarini@aol.com">ftagliarini@aol.com</a> <a href="mailto:margaretmontone@optonline.net">margaretmontone@optonline.net</a>	732-275-7612 732-492-1865	2/5/2013	Yes
Other 1:					
Other 2:					
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Robert Richter  
 Title: Chief of Police  
 Representing: ALLENHURST, BOROUGH OF  
 Email: copnj1301@yahoo.com  
 Phone: 732-531-0630

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Peter Avakian	<a href="mailto:lsavakian@aol.com">lsavakian@aol.com</a>	732-922-9229	4/22/2013	Yes
Emergency Manager	David McLaughlin	<a href="mailto:D101886@aol.com">D101886@aol.com</a>	732-229-6961	4/22/2013	Yes
Floodplain Manager/ Floodplain Administrator	Peter Avakian	<a href="mailto:lsavakian@aol.com">lsavakian@aol.com</a>	732-922-9229	4/22/2013	Yes
Public Works Director / City Engineer	Doug Caron	N/A	848-207-1876	4/22/2013	Yes
Building Code Official	State of New Jersey	N/A	732-517-1393	5/1/2013	Yes
Fiscal/Budget Officer	Christine Brown	<a href="mailto:cbrowncpa@aol.com">cbrowncpa@aol.com</a>	732-539-9032	4/22/2013	Yes
Manager/Administrator	Lori Osborn	<a href="mailto:ljgwiz@aol.com">ljgwiz@aol.com</a>	732-531-2757	4/22/2013	Yes
Elected Officials	David McLaughlin	<a href="mailto:D101886@aol.com">D101886@aol.com</a>	732-229-6961	4/22/2013	Yes
Other 1: Chief of Police	Robert Richter	<a href="mailto:chiefrichter@allenhurstnj.org">chiefrichter@allenhurstnj.org</a>	732-531-2255	7/31/2012	Y-Authorizing Individual and Representative
Other 2: Captain of Police	Michael Schneider		732-531-2255	7/31/2012	Y-Alternate
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Daniel Panckeri  
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 Email: [dpanckeri@comcast.net](mailto:dpanckeri@comcast.net)  
 Phone: 609-259-3491

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Sue Babbit	<a href="mailto:landuseftnj@optonline.net">landuseftnj@optonline.net</a>	609-259-3151		
Emergency Manager	Stuart Fierstein - Mayor	<a href="mailto:juliemartin@verizon.net">juliemartin@verizon.net</a>	609-259-3151		yes
Floodplain Manager/ Floodplain Administrator	Stuart Fierstein - Mayor	<a href="mailto:juliemartin@verizon.net">juliemartin@verizon.net</a>	609-259-3151		yes
Public Works Director / City Engineer	Dino Colarocco	<a href="mailto:dinoc@robbinsville-twp.org">dinoc@robbinsville-twp.org</a>	609-259-0422		
Building Code Official	Bob Corby	<a href="mailto:bobc@robbinsville-twp.org">bobc@robbinsville-twp.org</a>	609-918-0002x111		
Fiscal/Budget Officer	June Madden CFO		609-259-3151		
Manager/Administrator	Julie Martin CMC	<a href="mailto:juliemartin1@verizon.net">juliemartin1@verizon.net</a>			yes
Elected Officials	Stuart Fierstein - Mayor	<a href="mailto:juliemartin1@verizon.net">juliemartin1@verizon.net</a>	609-259-3151		Y-Authorizing Individual and Representative
Other 1: Police Dept. Sgt	Sgt. Daniel Panckeri	<a href="mailto:Dpanckeri@comcast.net">Dpanckeri@comcast.net</a>	609-259-3491		Y- Alternate
Other 2:					
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Kevin Keddy  
 Title: Fire Chief/Deputy OEM  
 Representing: City of Asbury PASBURY PARK, CITY OF  
 Email: kevin.keddy@cityofasburypark.com  
 Phone: 732-502-0186

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Donald Sammet, Director of Redevelopment / City Planner	<a href="mailto:donald.sammet@cityofasburypark.com">donald.sammet@cityofasburypark.com</a>	732-502-5711	4/15/2013	Yes
Emergency Manager	Terence J. Reidy - OEM Coordinator	<a href="mailto:terence.reidy@cityofasburypark.com">terence.reidy@cityofasburypark.com</a>	732-502-5753	7/31/2012	Y-Authorizing Individual
Floodplain Manager/ Floodplain Administrator	Joe Cunha - City Engineer and Director of Public Works	<a href="mailto:Joe.Cunha@cityofasburypark.com">Joe.Cunha@cityofasburypark.com</a>	732-775-0900	7/31/2012	Y-Representative
Public Works Director / City Engineer	Joe Cunha - City Engineer and Director of Public Works	<a href="mailto:Joe.Cunha@cityofasburypark.com">Joe.Cunha@cityofasburypark.com</a>	732-775-0900	7/31/2012	Y-Representative
Building Code Official	George Selah	<a href="mailto:george.selah@cityofasburypark.com">george.selah@cityofasburypark.com</a>	732-502-5768	4/15/2013	Yes
Fiscal/Budget Officer	Ricky Gartz	<a href="mailto:r.gartz@cityofasburypark.com">r.gartz@cityofasburypark.com</a>	732-775-2100	4/15/2013	Yes
Manager/Administrator	Terence J. Reidy - City Manager	<a href="mailto:terence.reidy@cityofasburypark.com">terence.reidy@cityofasburypark.com</a>	732-502-5753	7/31/2012	Y-Authorizing Individual
Elected Officials	Mayor Johnson Deputy Mayor Loffredo Kevin Sanders Sue Henderson Jim Bruno	<a href="mailto:mayorjohnson@verizon.net">mayorjohnson@verizon.net</a> <a href="mailto:jimloffredoap@gmail.com">jimloffredoap@gmail.com</a> <a href="mailto:mayorsanders2005@aol.com">mayorsanders2005@aol.com</a> <a href="mailto:shenderson.ap@gmail.com">shenderson.ap@gmail.com</a> <a href="mailto:Jim Bruno: jbruno0001@aol.com">Jim Bruno: jbruno0001@aol.com</a>	732-776-8683 732-774-5984 908-720-6557 732-610-1296 732-988-3838	4/15/2013	Yes
Other 1: Fire Chief and Deputy OEM Coordinator	D. Kevin Keddy	<a href="mailto:Kevin.keddy@cityofasburypark.com">Kevin.keddy@cityofasburypark.com</a>	732-502-0186	7/31/2012	Y-Representative
Other 2:	Robert Pasquariello	<a href="mailto:robert.pasquariello@cityofasburypark.com">robert.pasquariello@cityofasburypark.com</a>	732-502-4559	4/15/2013	Yes
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Adam Hubeny  
 Title: Administrator & OEM Coordinator  
 Representing: ATLANTIC HIGHLANDS, BOROUGH OF  
 Email: [ahubeny@ahnj.com](mailto:ahubeny@ahnj.com)  
 Phone: 732-291-1444 x 3101

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	David Marks	<a href="mailto:dmarks@tandmassociates.com">dmarks@tandmassociates.com</a>	732-671-6400	8/1/2012	Yes
Emergency Manager	Adam Hubeny - OEM Coordinator	<a href="mailto:ahubeny@ahnj.com">ahubeny@ahnj.com</a>	732-291-1444 x3101	7/15/2012	Y-Representative
Floodplain Manager/ Floodplain Administrator	Joseph Kachinsky	<a href="mailto:ahubeny@ahnj.com">ahubeny@ahnj.com</a>	732-291-1444 x3106	9/10/2012	Yes
Public Works Director / City Engineer	Robert Dougherty	<a href="mailto:rdougherty@ahnj.com">rdougherty@ahnj.com</a>	732-291-0027	1/1/2013	Yes
Building Code Official	Joseph Kachinsky		732-291-1444 x3106	9/10/2012	Yes
Fiscal/Budget Officer	Jerry Gagliano	<a href="mailto:jgagliano@ahnj.com">jgagliano@ahnj.com</a>	732-291-1444 x3104	1/1/2013	Yes
Manager/Administrator	Adam Hubeny - Borough Administrator	<a href="mailto:ahubeny@ahnj.com">ahubeny@ahnj.com</a>	732-291-1444 x3101	7/15/2013	Y-Representative
Alternate Contact	Richard White	<a href="mailto:rwhite@ahnj.com">rwhite@ahnj.com</a>	732-904-0194	1/15/2013	Yes-Alternate
Elected Officials					
Other 1:	Frederick J. Rast III - Mayor	<a href="mailto:pifred@gmail.com">pifred@gmail.com</a>	732-433-8448	8/10/2012	Yes
Other 2:	Jake Hoffmann - Council	<a href="mailto:jhoffmann@ahnj.com">jhoffmann@ahnj.com</a>	732-500-3995	9/1/2012	Yes
Other 3:	Lou Fligor - Council	<a href="mailto:lfligor@ahnj.com">lfligor@ahnj.com</a>	732-642-7982	1/1/2013	Yes

**Please fill in the contact details for the person filling in this page:**

Name:	AVON-BY-THE-SEA, BOROUGH OF
Title:	
Representing:	
Email:	
Phone:	

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Art Bernard	<a href="mailto:vuckygolfer@aol.com">vuckygolfer@aol.com</a>	609-397-8070	1-Jun-13	Yes
Emergency Manager	Kenneth Child - OEM Coordinator	<a href="mailto:kchild@optonline.net">kchild@optonline.net</a>	732-904-6186	17-Jul-12	Y-Representative
Floodplain Manager/ Floodplain Administrator	Rich Connors	<a href="mailto:code.avonbythesea@gmail.com">code.avonbythesea@gmail.com</a>	732-502-4510	1-Jun-13	Yes
Public Works Director / City Engineer	Jeff Bramhal	<a href="mailto:avondpw@aol.com">avondpw@aol.com</a>	732-502-4510	1-Apr-13	Yes
Building Code Official	Rich Connors	<a href="mailto:code.avonbythesea@gmail.com">code.avonbythesea@gmail.com</a>	732-502-4510	1-Jun-13	Yes
Fiscal/Budget Officer	John Antonides	<a href="mailto:ida0928@aol.com">ida0928@aol.com</a>	732-409-7132	1-Apr-13	Yes
Manager/Administrator	Timothy Gallagher - Borough Administrator	<a href="mailto:avonboro@aol.com">avonboro@aol.com</a>	732-502-4510	7/17/2012	Y-Authorizing Individual and Alternate
Elected Officials	Mayor Robert Mahon, Commissioner Frank Gorman, Commissioner Robert McGovern	<a href="mailto:avonboro@aol.com">avonboro@aol.com</a>	732-502-4510	1-Jan-13	Yes
Other 1:	Steven Keigelman - Deputy OEM Coordinator	<a href="mailto:stevenkeigelman@yahoo.com">stevenkeigelman@yahoo.com</a>	732-502-4510 / 732-2454703	1-Dec-12	Y-Alternate
Other 2:					
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Colleen Connolly  
 Title: Business Administrator  
 Representing: BELMAR, BOROUGH OF  
 Email: [cconnolly@boro.belmar.nj.us](mailto:cconnolly@boro.belmar.nj.us)  
 Phone: 7326819191

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Dave Roberts	<a href="mailto:DRoberts@maserconsulting.com">DRoberts@maserconsulting.com</a>	(732) 282-2200 x234	2/15/2013	Y
Emergency Manager	Matt Doherty	<a href="mailto:mayor@belmar.com">mayor@belmar.com</a>	732-681-1300	8/1/2012	Y-Representative
Floodplain Manager/ Floodplain Administrator	Ted Bianchi	<a href="mailto:tbianchi@boro.belmar.nj.us">tbianchi@boro.belmar.nj.us</a>	732-681-3700	2/15/2013	Y
Public Works Director / City Engineer	Mike Campbell	<a href="mailto:mcampbell@boro.belmar.nj.us">mcampbell@boro.belmar.nj.us</a>	732-681-0452	2/15/2013	Y
Building Code Official	Ted Bianchi	<a href="mailto:tbianchi@boro.belmar.nj.us">tbianchi@boro.belmar.nj.us</a>	732-681-3700	2/15/2013	Y
Fiscal/Budget Officer	Robbin Kirk	<a href="mailto:rkirk@boro.belmar.nj.us">rkirk@boro.belmar.nj.us</a>	732-681-3700	2/15/2013	Y
Manager/Administrator	Colleen Connolly - Borough Administrator	<a href="mailto:cconnolly@boro.belmar.nj.us">cconnolly@boro.belmar.nj.us</a>	732-681-9191	8/1/2012	Y-Authorizing Individual
Elected Officials				2/15/2013	
Other 1: Deputy OEM Coordinator	Fran Hines	<a href="mailto:fhines@boro.belmar.nj.us">fhines@boro.belmar.nj.us</a>	848-207-6500	8/1/2012	Y-Alternate
Other 2:	Tom Palmisano	<a href="mailto:tpalmisano@belmarpd.com">tpalmisano@belmarpd.com</a>	732-688-5474	8/1/2012	Y-Alternate
Other 3:	Tina Scott	<a href="mailto:tscott@belmarpd.com">tscott@belmarpd.com</a>	7329048023	8/1/2012	Y-Alternate

**Please fill in the contact details for the person filling in this page:**

Name:	Stephen Fahnholz
Title:	BRADLEY BEACH, BOROUGH OF
Representing:	
Email:	
Phone:	

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Michael Conoscenti	<a href="mailto:milmick@aol.com">milmick@aol.com</a>	732-776-2999	7/13/2013	Y
Emergency Manager	Leonard Guida - Coordinator	<a href="mailto:lguida@bradleybeachpd.com">lguida@bradleybeachpd.com</a>	732-775-6900	7/31/2012	Y-Authorizing Individual
Floodplain Manager/ Floodplain Administrator	Ken Triano	<a href="mailto:kentriano@bbdcd.com">kentriano@bbdcd.com</a>	732-776-2999	7/13/2013	Y
Public Works Director / City Engineer	Richard Bianchi Jr - Operating Supervisor	<a href="mailto:Rbianchi@bradleybeachnj.gov">Rbianchi@bradleybeachnj.gov</a>	732-776-2980	7/13/2013	Y
Building Code Official	Bryant Curry	<a href="mailto:Bcurry@bradleybeachnj.gov">Bcurry@bradleybeachnj.gov</a>	732-776-2999	7/13/2013	Y
Fiscal/Budget Officer	Joyce Wilkins - CFO	<a href="mailto:Jwilkins@bradleybeachnj.gov">Jwilkins@bradleybeachnj.gov</a>	732-776-2999	7/13/2013	Y
Manager/Administrator	Joyce Wilkins - CFO	<a href="mailto:Jwilkins@bradleybeachnj.gov">Jwilkins@bradleybeachnj.gov</a>	732-776-2999	7/13/2013	Y
Elected Officials	Gary Engelstad - Mayor	<a href="mailto:mayor@bradleybeachnj.gov">mayor@bradleybeachnj.gov</a>	732-776-2999	7/13/2013	Y
Other 1: Deputy Coordinator	Norman Goldfarb	<a href="mailto:goldline@optonline.net">goldline@optonline.net</a>	732-775-6900	7/31/2012	Y-Representative
Other 2:	Stephen Fahnholz	<a href="mailto:sfahnholz@bradleybeachpd.com">sfahnholz@bradleybeachpd.com</a>	732-775-6900	7/31/2012	Y-Alternate
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Michael W. Palmer  
 Chief of Police  
 Borough of Brielle  
[mwp141@verizon.net](mailto:mwp141@verizon.net)  
 732-528-5050

BRIELLE, BOROUGH OF

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Alan P. Hilla, Jr.	<a href="mailto:alhillaisa@gmail.com">alhillaisa@gmail.com</a>	732-922-9229	Fall 2012	yes
Emergency Manager	Thomas Nicol	<a href="mailto:townhall@brielleboro.com">townhall@brielleboro.com</a>	732-528-6600	Summer 2012	yes
Floodplain Manager/ Floodplain Administrator	Sandy Ratz	<a href="mailto:construction@springlakeboro.org">construction@springlakeboro.org</a>	732-449-3252 x5	Summer 2012	yes
Public Works Director	Robert McArthur	<a href="mailto:bobdpw@optonline.net">bobdpw@optonline.net</a>	732-528-6600	Summer 2012	yes
Building Code Official	Sandy Ratz	<a href="mailto:construction@springlakeboro.org">construction@springlakeboro.org</a>	732-528-6600	Summer 2012	yes
Fiscal/Budget Officer	Stephen Mayer	<a href="mailto:smayer@townshipofwall.com">smayer@townshipofwall.com</a>	732-820-4828	Fall 2012	yes
Manager/Administrator	Thomas Nolan	<a href="mailto:thomasnolan601@hotmail.com">thomasnolan601@hotmail.com</a>	732-528-6600 x100	Summer 2012	Y-Alternate
Elected Officials	Tim Shaak	<a href="mailto:timshaak@hotmail.com">timshaak@hotmail.com</a>	732-528-6600	Summer 2012	yes
Other 1: Chief of Police	Michael Palmer	<a href="mailto:mwp141@verizon.net">mwp141@verizon.net</a>	732-528-5050	Summer 2012	Y-Authorizing Individual and Representative
Other 2:					

**Please fill in the contact details for the person filling in this page:**

Name: Kevin Sauter  
 Title: Chief of Police  
 Representing: COLTS NECK, TOWNSHIP OF  
 Email: ksauter@coltsneckpolice.com  
 Phone: 732-780-7323

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Timothy Anfuso - Township Planner	cnplanners@optonline.net	732-462-5470	Jan. 2013	Y
Emergency Manager	Kevin Sauter - OEM Coordinator	ksauter@coltsneckpolice.com	732-780-7323	7/31/2012	Y-Authorizing Individual and Representative
Floodplain Manager/ Floodplain Administrator	Thomas Frank	<a href="mailto:coltsneckhd@optonline.net">coltsneckhd@optonline.net</a>	732-462-5470	Aug. 2013	Y
Public Works Director / City Engineer	Edward Thompson - Director of Public Works	coltsneckdpw@gmail.com	732-462-7998	7/31/2012	Y - Alternate
Building Code Official	Henry Salerno	hsalerno1@optonline.net	732-462-5470	Jan. 2013	Y
Fiscal/Budget Officer	John Antonides - CFO	jantonides@colts-neck.nj.us	732-462-5470	Jan. 2013	Y
Manager/Administrator	Robert Bowden - Township Administrator	rbowden@colts-neck.nj.us	732-462-5470	7/31/2012	Y
Elected Officials	Michael Fitzgerald - Mayor	mfitzgerald@colts-neck.nj.us	732-462-5470	7/31/2012	Y
Other 1:	Kevin Sauter - Police Chief	ksauter@coltsneckpolice.com	732-780-7323	7/31/2012	Y
Other 2:					
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Earl Alexander  
 Title: Captain  
 Representing: DEAL, BOROUGH OF  
 Email: [eaalexander@dealpolice.org](mailto:eaalexander@dealpolice.org)  
 Phone: 732-531-1113

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Peter Avakian	<a href="mailto:LSAvakian@aol.com">LSAvakian@aol.com</a>	732-922-9229	Mar-13	Y
Emergency Manager	Ronen Neuman	<a href="mailto:rneuman@dealpolice.org">rneuman@dealpolice.org</a>	732-531-1113	Mar-13	Y
Floodplain Manager/ Floodplain Administrator	James Rogers - Borough Administrator	<a href="mailto:administrator@dealborough.com">administrator@dealborough.com</a>	732-531-1343	Mar-13	Y
Public Works Director / City Engineer	Joseph Hagerman	<a href="mailto:administrator@dealborough.com">administrator@dealborough.com</a>	732-531-1343	Mar-12	Y
Building Code Official	Joseph Ciccone	<a href="mailto:administrator@dealborough.com">administrator@dealborough.com</a>	732-531-1343	Mar-13	Y
Fiscal/Budget Officer	Thomas Seaman	<a href="mailto:administrator@dealborough.com">administrator@dealborough.com</a>	732-531-1343	13-Mar	Y
Manager/Administrator	James Rogers - Borough Administrator	<a href="mailto:administrator@dealborough.com">administrator@dealborough.com</a>	732-531-1343	Mar-13	Y-Authorizing Individual
Elected Officials	David Ades - Mayor	<a href="mailto:administrator@dealborough.com">administrator@dealborough.com</a>	732-531-1343	Mar-13	Y
Other 1: Chief of Police	Ronen Neuman	<a href="mailto:rneuman@dealpolice.org">rneuman@dealpolice.org</a>	732-531-1113	Mar-13	Y-Representative
Other 2: Captain	Earl Alexander	<a href="mailto:eaalexander@dealpolice.org">eaalexander@dealpolice.org</a>	732-531-1113	Mar-13	Y-Alternate
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: William Mego  
 Title: OEM Coordinator  
 Representing: EATONTOWN, BOROUGH OF  
 Email: [wmeago45@verizon.net](mailto:wmeago45@verizon.net)  
 Phone: 732-904-6950

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Jerry Applegate	<a href="mailto:co@eatontownnj.com">co@eatontownnj.com</a>	732-389-7621	June 3 2012	yes
Emergency Manager	William Mego - OEM Coordinator	wmeago45@verizon.net	732-904-6950	June 3 2012	Y-Authorizing Individual and Representative
Floodplain Manager/ Floodplain Administrator	Jerry Applegate	<a href="mailto:co@eatontownnj.com">co@eatontownnj.com</a>	732-389-7621	June 3 2012	yes
Public Works Director / City Engineer	Frank Cannella	<a href="mailto:dpw@eatontownnj.com">dpw@eatontownnj.com</a>	732-389-7652	June 5 2012	Yes
Building Code Official	Jerry Applegate	<a href="mailto:co@eatontownnj.com">co@eatontownnj.com</a>	732-389-7621	June 5 2012	yes
Fiscal/Budget Officer	Lesley Connley	<a href="mailto:Lesley@eatontownnj.com">Lesley@eatontownnj.com</a>	732-389-7603	June 5 2012	Yes
Manager/Administrator	George Jackson	<a href="mailto:admin@eatontownnj.com">admin@eatontownnj.com</a>	732-389-7621	June 3 2012	Yes
Elected Officials	Gerry Tarantola	<a href="mailto:mayor@eatontownnj.com">mayor@eatontownnj.com</a>	732-389-7621	June 3 2012	yes
Other 1: Deputy Coordinator	Rudy Trask	<a href="mailto:fp@eatontownnj.com">fp@eatontownnj.com</a>	732-389-7620	June 3 2012	Y-Alternate
Other 2:					
Other 3:					

Please fill in the contact details for the person filling in this page:

Name:	ENGLISHTOWN, BOROUGH OF
Title:	
Representing:	
Email:	
Phone:	

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Thomas Herits - Borough Engineer	<a href="mailto:therits@maserconsulting.com">therits@maserconsulting.com</a>	732-383-1950	3/26/2013	Y-Representative
Emergency Manager	Peter Cooke, Jr. - OEM Coordinator	<a href="mailto:oem@englishtownnj.com">oem@englishtownnj.com</a>	732-446-7001x30	7/31/2012	Y-Representative
Floodplain Manager/ Floodplain Administrator	Thomas Herits - Borough Engineer	<a href="mailto:therits@maserconsulting.com">therits@maserconsulting.com</a>	732-383-1950	3/26/2013	Y-Representative
Public Works Director / City Engineer	Thomas Herits - Borough Engineer	<a href="mailto:therits@maserconsulting.com">therits@maserconsulting.com</a>	732-383-1950	3/26/2013	Y-Alternate
Building Code Official	Dave Gray	<a href="mailto:dgray@dca.state.nj.us">dgray@dca.state.nj.us</a>	609-567-3653	7/31/2012	Y
Fiscal/Budget Officer	Laurie Finger-CFO	<a href="mailto:lfinger@englishtownnj.com">lfinger@englishtownnj.com</a>	732-446-9235	7/31/2012	Y
Manager/Administrator	Laurie Finger - Borough Administrator	<a href="mailto:lfinger@englishtownnj.com">lfinger@englishtownnj.com</a>	732-446-9235	7/31/2012	Y-Authorizing Individual
Elected Officials	Thomas Reynolds - Mayor	<a href="mailto:clerk@englishtownnj.com">clerk@englishtownnj.com</a>	732-446-9235	7/31/2012	Y
Other 1: Fire Marshall	Edward Miller III	<a href="mailto:EFO111@hotmail.com">EFO111@hotmail.com</a>	732-446-9235	7/31/2012	Y
Other 2: Code Enforcement	Edward Miller III	<a href="mailto:EFO111@hotmail.com">EFO111@hotmail.com</a>	732-446-9235	7/31/2012	Y
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Joseph P. McGovern  
 Title: police Lt./OEM  
 Representing: FAIR HAVEN, BOROUGH OF  
 Email: [jmcgovern@fhboro.net](mailto:jmcgovern@fhboro.net)  
 Phone:

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Rich Gardella	<a href="mailto:rgardella@fhboro.net">rgardella@fhboro.net</a>	732-747-0241 401	Jul-12	yes
Emergency Manager	Joseph McGovern - LT/OEM	<a href="mailto:jmcgovern@fhboro.net">jmcgovern@fhboro.net</a>	732-747-0241 324	12-Jul	Y-Authorizing Individual and Representative
Floodplain Manager/ Floodplain Administrator	Rich Gardella	<a href="mailto:rgardella@fhboro.net">rgardella@fhboro.net</a>	732-747-0241 401	12-Jul	yes
Public Works Director / City Engineer	Rich Gardella	<a href="mailto:rgardella@fhboro.net">rgardella@fhboro.net</a>	732-747-0241 401	12-Jul	yes
Building Code Official	Rich Gardella	<a href="mailto:rgardella@fhboro.net">rgardella@fhboro.net</a>	732-747-0241 401	12-Jul	yes
Fiscal/Budget Officer	Theresa Casagrande	<a href="mailto:tcasagrande@fhboro.net">tcasagrande@fhboro.net</a>	732-747-0241 201	12-Jul	yes
Manager/Administrator	Borough Administrator Theresa Casagrande	<a href="mailto:tcasagrande@fhboro.net">tcasagrande@fhboro.net</a>	732-747-0241 201	12-Jul	yes
Elected Officials	Mayor Ben Lucarelli	<a href="mailto:blucarelli@verizon.net">blucarelli@verizon.net</a>	732-747-0241 200	12-Jul	yes
Other 1: Sgt.	Sgt. Jesse Dykstra	<a href="mailto:jdijkstra@fhboro.net">jdijkstra@fhboro.net</a>	732-747-0241 332	12-Jul	Y-Alternate
Other 2:					
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Helene Schlegel  
 Title: OEM Coordinator  
 Representing: FARMINGDALE, BOROUGH OF  
 Email: [hschlegel@twp.howell.nj.us](mailto:hschlegel@twp.howell.nj.us)  
 Phone: 732-614-7013

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Robert Hotmar	<a href="mailto:bhotmar@twp.howell.nj.us">bhotmar@twp.howell.nj.us</a>	732-938-4500 ex 2102	7/31/2012	Y
Emergency Manager	Helene Schlegel	<a href="mailto:hschlegel@twp.howell.nj.us">hschlegel@twp.howell.nj.us</a>	732-614-7013	7/31/2012	Y-Representative
Floodplain Manager/ Floodplain Administrator	Matt Shafai	<a href="mailto:mattshafai@aol.com">mattshafai@aol.com</a>	732-922-9229	7/31/2012	Y
Public Works Director / City Engineer	Matt Shafai	<a href="mailto:mattshafai@aol.com">mattshafai@aol.com</a>	732-922-9229	7/31/2012	Y
Building Code Official	Paul Orlando	<a href="mailto:porlando@twp.howell.nj.us">porlando@twp.howell.nj.us</a>	732-938-4500 ex2425	7/31/2012	Y
Fiscal/Budget Officer	Robin Kirk	<a href="mailto:rkirk@boro.belmar.nj.us">rkirk@boro.belmar.nj.us</a>	732-681-9191	7/31/2012	Y
Manager/Administrator	Kimberly Farrington	<a href="mailto:kfarrington@farmingdaleborough.org">kfarrington@farmingdaleborough.org</a>	732-938-4077	7/31/2012	yes
Elected Officials					
Mayor	Jay Morgan	<a href="mailto:kfarrington@farmingdaleborough.org">kfarrington@farmingdaleborough.org</a>	732-618-1126	7/31/2012	Y-Authorizing Individual
Deputy OEM Coordinator	Robert Lewis	<a href="mailto:blewis@twp.howell.nj.us">blewis@twp.howell.nj.us</a>	732-938-4500	7/31/2012	Y-Alternate
Other	Robert Nicastro	<a href="mailto:rnicastr@twp.howell.nj.us">rnicastr@twp.howell.nj.us</a>	732-938-4500 x2102	7/31/2012	Y-representative

**Please fill in the contact details for the person filling in this page:**

Name: Henry A. Stryker III  
 Title: OEM Coordinator  
 Representing: FREEHOLD, BOROUGH OF  
 Email: [hstryker@freeholdboro.org](mailto:hstryker@freeholdboro.org)  
 Phone: 732-462-4903

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Joseph Layton	<a href="mailto:jlayton@maserconsulting.com">jlayton@maserconsulting.com</a>	908-238-0900	31-Jul-12	Y
Emergency Manager	Henry A. Stryker, III - OEM Coordinator	<a href="mailto:hstryker@freeholdboro.org">hstryker@freeholdboro.org</a>	732-598-7680	31-Jul-12	Y-Representative
Floodplain Manager/ Floodplain Administrator	Henry A. Stryker, III - OEM Coordinator	<a href="mailto:hstryker@freeholdboro.org">hstryker@freeholdboro.org</a>	732-462-4903	31-Jul-12	Y
Public Works Director / City Engineer	William T. Wentzien	<a href="mailto:bwentzien@cranmerengineering.com">bwentzien@cranmerengineering.com</a>	732-212-8900	31-Jul-12	Y
Building Code Official	Henry A. Stryker, III	<a href="mailto:hstryker@freeholdboro.org">hstryker@freeholdboro.org</a>	732-462-4903	31-Jul-12	Y
Fiscal/Budget Officer	Richard Gartz CFO	<a href="mailto:rgartz@freeholdboro.org">rgartz@freeholdboro.org</a>	732-462-1410	31-Jul-12	Y
Manager/Administrator	Joseph Bellina Administrator	<a href="mailto:jbellina@freeholdboro.org">jbellina@freeholdboro.org</a>	732-462-4200	31-Jul-12	Y
Elected Officials	J. Nolan Higgins - Mayor	<a href="mailto:nhiggins@freeholdboro.org">nhiggins@freeholdboro.org</a>	732-462-1410	31-Jul-12	Y-Authorizing Individual
Other 1: Deputy Coordinator	Daniel Megill	<a href="mailto:dmcgill@freeholdboro.org">dmcgill@freeholdboro.org</a>	732-462-4200	31-Jul-12	Y-Alternate
Other 2:					
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Timothy P. White  
 Title: Township Engineer  
 Representing: FREEHOLD, TOWNSHIP OF  
 Email: [twhite@twp.freehold.nj.us](mailto:twhite@twp.freehold.nj.us)  
 Phone: 732-294-2071

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Tom Thomas, Thomas Planning Associates, Inc.	<a href="mailto:tomplan@verizon.net">tomplan@verizon.net</a>	732-223-3215	1/1/2013	Yes
Emergency Manager	Raymond Piccolini, Emergency Management Coordinator	<a href="mailto:rpiccolini@twp.freehold.nj.us">rpiccolini@twp.freehold.nj.us</a>	732-294-2144	7/31/2012	Y-Representative
Floodplain Manager/ Floodplain Administrator	Timothy White - Township Engineer	<a href="mailto:twhite@twp.freehold.nj.us">twhite@twp.freehold.nj.us</a>	732-294-2070	7/31/2012	Y-Representative
Public Works Director / City Engineer	Timothy White - Township Engineer	<a href="mailto:twhite@twp.freehold.nj.us">twhite@twp.freehold.nj.us</a>	732-294-2070	7/31/2012	Y-Alternate
Building Code Official	Ronald Kirk	<a href="mailto:rkirk@twp.freehold.nj.us">rkirk@twp.freehold.nj.us</a>	732-294-2050	1/1/2013	Yes
Fiscal/Budget Officer	Catherine Campbell, Director of Finance	<a href="mailto:ccampbell@twp.freehold.nj.us">ccampbell@twp.freehold.nj.us</a>	732-294-2016	1/1/2013	Yes
Manager/Administrator	Peter Valesi, Township Administrator	<a href="mailto:pvaluesi@twp.freehold.nj.us">pvaluesi@twp.freehold.nj.us</a>	732-294-2000	7/31/2012	Y-Authorizing Individual
Elected Officials	Barbara J. McMorrow, Mayor	<a href="mailto:admin@twp.freehold.nj.us">admin@twp.freehold.nj.us</a>	732-294-2000	1/1/2013	Yes
Other 1:	Anthony J. Ammiano, Deputy Mayor	<a href="mailto:admin@twp.freehold.nj.us">admin@twp.freehold.nj.us</a>	732-294-2000	1/1/2013	Yes
Other 2:	Thomas L. Cook	<a href="mailto:admin@twp.freehold.nj.us">admin@twp.freehold.nj.us</a>	732-294-2000	1/1/2013	Yes
Other 3:	Eugene B. Golub	<a href="mailto:admin@twp.freehold.nj.us">admin@twp.freehold.nj.us</a>	732-294-2000	1/1/2013	Yes
Other 3:	David M. Salkin	<a href="mailto:admin@twp.freehold.nj.us">admin@twp.freehold.nj.us</a>	732-294-2000	1/1/2013	Yes

**Please fill in the contact details for the person filling in this page:**

Name: Thomas Horner  
 Title: OEM Coordinator  
 Representing: HAZLET, TOWNSHIP OF  
 Email: [Oem@hazlettwp.org](mailto:Oem@hazlettwp.org)  
 Phone: 732-865-4591

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Sharon Keegan	<a href="mailto:skeegan@hazlettwp.org">skeegan@hazlettwp.org</a>	732-264-1700	Aug-12	YES
Emergency Manager	Thomas Norner - OEM Coordinator	<a href="mailto:oem@hazlettwp.org">oem@hazlettwp.org</a>	732-865-4591	8/7/12	Y-Authorizing Individual and Representative
Floodplain Manager/ Floodplain Administrator	Frank DeRoma	<a href="mailto:fdiroma@hazlettwp.org">fdiroma@hazlettwp.org</a>	732-217-8660	8/7/12	YES
Public Works Director / City Engineer	David Rooke	<a href="mailto:drooke@hazlettwp.org">drooke@hazlettwp.org</a>	732-264-1700	8/7/12	YES
Building Code Official			732-264-1700	8/7/12	YES
Fiscal/Budget Officer	Tom O'Hara	<a href="mailto:tohara@hazlettwp.org">tohara@hazlettwp.org</a>		8/7/12	YES
Manager/Administrator	Dennis Pino - Acting Administrator	<a href="mailto:dpino@hazlettwp.org">dpino@hazlettwp.org</a>	732-264-1700 x8682	8/7/12	YES
Elected Officials	Joe Belasco - Mayor	<a href="mailto:ibelasco@hazlettwp.org">ibelasco@hazlettwp.org</a>	732-264-1700	8/7/12	YES
Other 1: Deputy Coordinator	Kenneth Marr	<a href="mailto:exchief7202@gmail.com">exchief7202@gmail.com</a>	908-670-9979	8/7/12	Alternate
Other 2:					
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Dale R. Leubner  
 Title: Borough Zoning Officer/Floodplain Administrator  
 Representing: HIGHLANDS, BOROUGH OF  
 Email: [dleubner@tandmassociates.com](mailto:dleubner@tandmassociates.com)  
 Phone: 732-671-6400

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/ Community Planner	Marty P. Truscott	<a href="mailto:mtruscott@tandmassociates.com">mtruscott@tandmassociates.com</a>	732-671-6400	3/26/2013	Yes
Emergency Manager	David Parker - OEM Coordinator	<a href="mailto:fireprevention@highlandsborough.org">fireprevention@highlandsborough.org</a>	732-889-6220	3/26/2013	Yes-Authorizing Individual and Representative
Floodplain Manager/ Floodplain Administrator	Dale R. Leubner	<a href="mailto:dleubner@tandmassociates.com">dleubner@tandmassociates.com</a>	732-671-6400	3/26/2013	Yes
Public Works Director / City Engineer	Robert R. Keady, P.E., C.M.E.	<a href="mailto:rkeady@tandmassociates.com">rkeady@tandmassociates.com</a>	732-671-6400	3/26/2013	Yes
Building Code Official	Paul Vitale	<a href="mailto:constructionofficial@gmail.com">constructionofficial@gmail.com</a>	732-701-7180	3/26/2013	Yes
Fiscal/Budget Officer	Stephen Pteffer	<a href="mailto:ddailey@highlandsborough.org">ddailey@highlandsborough.org</a>	408-432-2811	3/26/2013	Yes
Manager/Administrator	Tim Hill - Borough Administrator	<a href="mailto:thill@highlandsborough.org">thill@highlandsborough.org</a>	732-547-6962	3/26/2013	Yes-Alternate
Elected Officials	Frank Nolan, Mayor	<a href="mailto:fnolan@highlandsborough.org">fnolan@highlandsborough.org</a>	732-778-7493	3/26/2013	Yes
Other 1:					
Other 2:					
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Michael Simpson  
 Title: Holmdel OEM Coordinator  
 Representing: HOLMDEL, TOWNSHIP OF  
 Email: [holmdeloem@gmail.com](mailto:holmdeloem@gmail.com)  
 Phone: 732-688-6745

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Bonnie Imposimato	<a href="mailto:bimposimato@holmdeltownship-nj.com">bimposimato@holmdeltownship-nj.com</a>	732-946-2820	March 1, 2013	Y
Emergency Manager	Michael Simpson - OEM Coordinator	<a href="mailto:holmdeloem@gmail.com">holmdeloem@gmail.com</a>	732-688-6745	23-Jul-12	Y-Representative
Floodplain Manager/ Floodplain Administrator	Dave Olsen	<a href="mailto:dolsen@holmdeltownship-nj.com">dolsen@holmdeltownship-nj.com</a>	732-946-2820	March 1, 2013	Y
Public Works Director / City Engineer	Jeff Smith	<a href="mailto:jsmith@holmdeltownship-nj.com">jsmith@holmdeltownship-nj.com</a>	732-946-2820	March 1, 2013	Y
Building Code Official	Robert Faye	<a href="mailto:rfave@holmdeltownship-nj.com">rfave@holmdeltownship-nj.com</a>	732-946-2820 Ext 1313	March 1, 2013	Y
Fiscal/Budget Officer	Jeanette Larrison	<a href="mailto:jlarrison@holmdeltownship-nj.com">jlarrison@holmdeltownship-nj.com</a>	732-946-2820	March 1, 2013	Y
Manager/Administrator (Previous)	Andrew Katz - Township Administrator		732-946-3820	23-Jul-12	Y-Authorizing Individual
Manager/Administrator (Current)	Donna Veiuro - Township Administrator	<a href="mailto:dveiro@holmdeltownship-nj.com">dveiro@holmdeltownship-nj.com</a>	732-946-2820	March 1, 2013	Y-Authorizing Individual
Elected Officials	Mayor Pat Impreviduto	<a href="mailto:pimpreveduto@holmdeltownship-nj.com">pimpreveduto@holmdeltownship-nj.com</a>	732-946-2820	March 1, 2013	Y
Other 1: Chief of Police	John Mioduszewski	<a href="mailto:jmioduszewski@holmdelipolice.org">jmioduszewski@holmdelipolice.org</a>	732-946-4400	23-Jul-12	Y-Alternate
Other 2:					
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Helene Schlegel  
 Title: OEM Coordinator  
 Representing: Howell, Township of  
 Email: [hschlegel@twp.howell.nj.us](mailto:hschlegel@twp.howell.nj.us)  
 Phone: 732-614-7013

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Robert H. Hotmar	<a href="mailto:rhotmar@twp.howell.nj.us">rhotmar@twp.howell.nj.us</a>	732-938-4500 x2102	7/31/2012	Yes
Emergency Manager	Helene Schlegel	<a href="mailto:hschlegel@twp.howell.nj.us">hschlegel@twp.howell.nj.us</a>	732-614-7013	7/31/2012	Y-Representative
Floodplain Manager/ Floodplain Administrator	Matt Shafai	<a href="mailto:mattshafai@aol.com">mattshafai@aol.com</a>	732-938-4077	7/31/2012	Y
Public Works Director / City Engineer	Matt Shafai	<a href="mailto:mattshafai@aol.com">mattshafai@aol.com</a>	732-938-4077	7/31/2012	Y
Building Code Official	Paul Orlando	<a href="mailto:porlando@twp.howell.nj.us">porlando@twp.howell.nj.us</a>	732-938-4500	7/31/2012	Y
Fiscal/Budget Officer	Robin Kirk	<a href="mailto:rkirk@boro.belmar.nj.us">rkirk@boro.belmar.nj.us</a>	732-938-4077	7/31/2012	Y
Manager/Administrator	Corrine DiCorcia	<a href="mailto:clerk@farmingdaleborough.org">clerk@farmingdaleborough.org</a>	732-938-4077	7/31/2012	yes
Elected Officials					
Mayor	Jay Morgan	<a href="mailto:cgaerthner@farmingdaleborough.org">cgaerthner@farmingdaleborough.org</a>	732-618-1126	7/31/2012	Y-Authorizing Individual
Deputy OEM Coordinator	Robert Lewis	<a href="mailto:rlewis@twp.howell.nj.us">rlewis@twp.howell.nj.us</a>	732-938-4500	7/31/2012	Y-Alternate
Council President	James Daly	<a href="mailto:jimdaly@farmingdaleborough.org">jimdaly@farmingdaleborough.org</a>	732-938-4500 x2102	7/31/2012	Y-representative

**Please fill in the contact details for the person filling in this page:**

Name: Earl Alexander / Lori Reibrich  
 Title: Dep OEM / Administrator  
 Representing: INTERLAKEN, BOROUGH OF  
 Email: [lreibrich@interlakenboro.com](mailto:lreibrich@interlakenboro.com)  
 Phone: 732-531-7405

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Peter Avakian- Borough Engineer	<a href="mailto:lsavkian@aol.com">lsavkian@aol.com</a>	732-922-9229	Aug.2012	Y
Current Emergency Manager	Ronen Neuman	<a href="mailto:rneuman@dealpolice.org">rneuman@dealpolice.org</a>	732-531-1113	09/01/13	Y
Previous Emergency Manager	Stephen Carasia	<a href="mailto:scarasia@dealpolice.org">scarasia@dealpolice.org</a>	732-531-1113	Aug.2012	Y
Floodplain Manager/ Floodplain Administrator	Peter Avakian	<a href="mailto:lsavkian@aol.com">lsavkian@aol.com</a>	732-922-9229	Aug.2012	Y
Public Works Director / City Engineer	Norman Cottrell	<a href="mailto:ncottrell@interlakenboro.com">ncottrell@interlakenboro.com</a>	732-517-0005	Aug.2012	Y
Building Code Official	Paul Vitale	see above	see above	Aug.2012	Y
Fiscal/Budget Officer	Stephen Gallagher	<a href="mailto:sgallagher@interlakenboro.com">sgallagher@interlakenboro.com</a>	732-531-7405	Aug.2012	Y
Previous Manager/Administrator	Dawn McDonald	<a href="mailto:dmcdonald@interlakenboro.com">dmcdonald@interlakenboro.com</a>	732-531-7405	07/31/12	Y-Authorizing Individual
Current Manager/Administrator	Lori Reibrich - Borough Administrator	<a href="mailto:lreibrich@interlakenboro.com">lreibrich@interlakenboro.com</a>	732-531-7405	Spring 2013	Y
Elected Officials	Mayor - Michael Nohilly	<a href="mailto:mnohilly@interlakenboro.com">mnohilly@interlakenboro.com</a>	732-531-7405	Aug.2012	Y
Other 1: Previous Police Chief	Stephen Carasia	<a href="mailto:scarasia@dealpolice.org">scarasia@dealpolice.org</a>	732-531-1113	07/31/12	Y- Representative
Other 1: Current Police Chief	Ronen Neuman	<a href="mailto:rneuman@dealpolice.org">rneuman@dealpolice.org</a>	732-531-1113	09/01/13	Y
Other 2: Captain	Earl Alexander	<a href="mailto:alexander@dealpolice.org">alexander@dealpolice.org</a>	732-531-1113	07/31/12	Y-Alternate
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Ginger Rogan  
 Title: Deputy OEM  
 Representing: Keansburg  
 Email: [dispgin1@aol.com](mailto:dispgin1@aol.com)  
 Phone: 732-787-0215

KEANSBURG, BOROUGH OF

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Raymond O'Hare	<a href="mailto:chiefohare@aol.com">chiefohare@aol.com</a>	732-787-0215x203	13-Mar	y
Emergency Manager	Raymond O'Hare - OEM Coordinator	<a href="mailto:chiefohare@aol.com">chiefohare@aol.com</a>	732-787-0215 x201	Jul-12	Y-Representative
Floodplain Manager/ Floodplain Administrator	Ed Striedl	<a href="mailto:ed.striedl@keansburg-nj.us">ed.striedl@keansburg-nj.us</a>	732-787-0215x228	13-Mar	Y-Representative
Public Works Director / City Engineer	Dennis O'Keefe	<a href="mailto:dennis.okeefe@keansburg-nj.us">dennis.okeefe@keansburg-nj.us</a>	732-787-0215x247	13-Mar	Y-Representative
Building Code Official	Ed Striedl	<a href="mailto:ed.striedl@keansburg-nj.us">ed.striedl@keansburg-nj.us</a>		13-Mar	y
Fiscal/Budget Officer	Patrick Debalasio			13-Mar	y
Manager/Administrator	Raymond O'Hare - Borough Manager	<a href="mailto:chiefohare@aol.com">chiefohare@aol.com</a>	732-787-0215	12-Jul	Y-Authorizing Individual
Elected Officials	George Hoff/Mayor		732-787-0215x222	12-Jul	
Other 1: Deputy OEM Coordinator	Ginger Rogan	<a href="mailto:dispgin1@aol.com">dispgin1@aol.com</a>	732-787-0600	12-Jul	Y- Alternate
Other 2: Deputy OEM	James Pigott	<a href="mailto:jp7377@aol.com">jp7377@aol.com</a>	732-787-0600	12-Jul	Y- Alternate
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Lorene Wright  
 Title: Business Administrator  
 Representing: Borough of Key KEYPOR, BOROUGH OF  
 Email: lwright@keyportonline.com  
 Phone: 732-739-5122

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Community Planner	Beacon Planning	beck@beaconplanning.net	732-845-8103	Summer 2012	Y
Emergency Manager	Ken Krohe - OEM Coordinator	Kgk62@aol.com	732-335-0418	summer 2012	Y-Representative
Manager/ Floodplain Administrator	Robert Burlaw	bburlaw@keyportonline.com	732-739-5131	summer 2012	Y-
Public Works Director / City Engineer	Calvin Bell	cbellpw@keyportonline.com	732-673-5271	Summer 2012	Y
Building Code Official	Robert Burlaw	bburlaw@keyportonline.com	732-739-5131	Summer 2012	Y
Fiscal/Budget Officer	Tom Fallon Lorene Wright - Borough Administrator	TFallon@keyportonline.com	732-739-5129	Summer 2012	Y
Manager/Administrator	Lorene Wright - Borough Administrator	lwright@keyportonline.com	732-739-5122	Summer 2012	Y-Authorizing Individual
Elected Officials	Joseph Sheridan	js Sheridan@keyportonline.com	732-739-3900	Summer 2012	Y
Other 1: Deputy Mgr Coordinator	Thomas Gallo	tdg1cnj@yahoo.com	732-320-7072	summer 2012	Y-Alternate
Other 2:	N/A				
Other 3:	N/A				

**Please fill in the contact details for the person filling in this page:**

Name: Louise A. Mekosh  
 Title: Borough Clerk/Administrator  
 Representing: LAKE COMO, BOROUGH OF  
 Email: [lmekosh@boro.lake-como.nj.us](mailto:lmekosh@boro.lake-como.nj.us)  
 Phone: 732-681-3232, ext. 202

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Al Hilla	<a href="mailto:ahillair@birdsall.com">ahillair@birdsall.com</a>	732-380-1700	Jul-12	Yes
Emergency Manager	Chief Fred Hope - OEM Coordinator	<a href="mailto:fhope@boro.lake-como.nj.us">fhope@boro.lake-como.nj.us</a>	732-681-3084	Jul-12	Y-Authorizing Individual and Representative
Floodplain Manager/ Floodplain Administrator	John Rowe	<a href="mailto:jrowe@boro.lake-como.nj.us">jrowe@boro.lake-como.nj.us</a>	732-681-3232	Jul-12	Yes
Public Works Director / City Engineer	Brendan Maas	<a href="mailto:lmekosh@boro.lake-como.nj.us">lmekosh@boro.lake-como.nj.us</a>	732-681-3393	Aug-12	Yes
Building Code Official	John Rowe	<a href="mailto:jrowe@boro.lake-como.nj.us">jrowe@boro.lake-como.nj.us</a>	732-681-3232	Jul-12	Yes
Fiscal/Budget Officer	Louise Mekosh - Borough Administrator	<a href="mailto:lmekosh@boro.lake-como.nj.us">lmekosh@boro.lake-como.nj.us</a>	732-681-3232, ext 202	Jul-12	Yes
Manager/Administrator	Louise Mekosh - Borough Administrator	<a href="mailto:lmekosh@boro.lake-como.nj.us">lmekosh@boro.lake-como.nj.us</a>	732-681-3232, ext 202	Jul-12	Y-Alternate
Elected Officials					
Other 1:					
Other 2:					
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Gregory Blash, P.E.  
 Title: Floodplain Manager  
 Representing: LITTLE SILVER, BOROUGH OF  
 Email: [gblash@verizon.net](mailto:gblash@verizon.net)  
 Phone: 732-922-9229

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Gregory Blash - Planning Board Engineer	<a href="mailto:gblash@verizon.net">gblash@verizon.net</a>	732-922-9229	Jun-12	Y-Representative
Emergency Manager	Frank Salerno - OEM Coordinator	<a href="mailto:fsalerno@littlesilver.org">fsalerno@littlesilver.org</a>	732-747-5900	Jun-12	Y-Representative
Floodplain Manager/ Floodplain Administrator	Gregory Blash - Floodplain Manager	<a href="mailto:gblash@verizon.net">gblash@verizon.net</a>	732-922-9229	Jun-12	Y-Representative
Public Works Director / City Engineer	Gregory Blash - Borough Engineer	<a href="mailto:gblash@verizon.net">gblash@verizon.net</a>	732-922-9229	Jun-12	Y-Representative
Building Code Official	Stanley Sickles	<a href="mailto:ssickles@redbanknj.org">ssickles@redbanknj.org</a>	732-530-2760	Apr-13	Yes
Fiscal/Budget Officer	Laura Geraghty, CMFO, CTC	<a href="mailto:lgeraghty@littlesilver.org">lgeraghty@littlesilver.org</a>	732-842-2400	Apr-13	Yes
Manager/Administrator	Kimberly A. Jungfer - Administrator/Clerk	<a href="mailto:kjungfer@littlesilver.org">kjungfer@littlesilver.org</a>	732-842-2400	Sep-13	Y-Authorizing Individual
Elected Officials					
Other 1:					
Other 2:					
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Peter R. Avakian, P.E.  
 Title: Floodplain Administrator  
 Representing: LOCH ARBOUR, VILLAGE OF  
 Email: [lsavakian@aol.com](mailto:lsavakian@aol.com)  
 Phone: 732-922-9229

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Peter R. Avakian - Land Use Engineer	lsavakian@aol.com	732-922-9229	6/1/2012	Y
Emergency Manager	Alfred J. Cheswick	alchez@infionline.net	732-531-4740	6/1/2012	Y
Floodplain Manager/ Floodplain Administrator	Peter R. Avakian - Floodplain Administrator	lsavakian@aol.com	732-922-9229	6/1/2012	Y-Authorizing Individual and Representative
Public Works Director / City Engineer	Peter R. Avakian - Village Engineer	lsavakian@aol.com	732-922-9229	6/1/2012	Y
Building Code Official	Dave Gray	NA	732-517-1393	6/1/2012	Y
Fiscal/Budget Officer	Phil Delterco	phil2d@verizon.net	732-531-4740	6/1/2012	Y
Manager/Administrator	Daniel J. Mason - Acting Clerk	danomason@aol.com	732-531-4740	6/1/2012	Y-Authorizing Individual and Representative
Elected Officials	Paul V. Fernicola - Mayor	pvf@fernicolalaw.com	732-531-4740	6/1/2012	Y-Authorizing Individual and Representative
Elected Officials	Alfred J. Cheswick - Deputy Mayor	alchez@infionline.net	732-531-4740	6/1/2012	Y-Alternate
Elected Officials	Denis D'Angelo	denisdangelo@verizon.net	732-531-4740	6/1/2012	Y-Alternate
Other 1:					
Other 2:					
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Charles F. Shirley Jr.  
 Title: Deputy  
 Representing: Emergency Management LONG BRANCH, CITY OF  
 Email: cshirley@longbranch.org  
 Phone: 732-803-5144

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Carl Turner	<a href="mailto:cturner@longbranch.org">cturner@longbranch.org</a>	732-571-5647	2/1/2013	Yes
Emergency Manager	Stanley Dziuba	<a href="mailto:sdziuba@longbranch.org">sdziuba@longbranch.org</a>	732-904-4743		Yes
Floodplain Manager/ Floodplain Administrator	Stanley Midose	<a href="mailto:smidose@longbranch.org">smidose@longbranch.org</a>	732-571-5690	2/1/2013	Yes
Public Works Director / City Engineer	Fred Migliaccio	<a href="mailto:fmigliaccio@longbranch.org">fmigliaccio@longbranch.org</a>	732-904-4741	2/1/2013	Yes
Building Code Official	Stanley Midose	<a href="mailto:smidose@longbranch.org">smidose@longbranch.org</a>	732-571-5690		Yes
Fiscal/Budget Officer	Ronald Melhorn	<a href="mailto:rmelhorn@longbranch.org">rmelhorn@longbranch.org</a>	732-222-7000		Yes
Manager/Administrator	Howard Woolley	<a href="mailto:hwoolley@longbranch.org">hwoolley@longbranch.org</a>	732-222-7000	2/1/2013	Yes
Elected Officials	Kate Billings	<a href="mailto:kbillings@longbranch.org">kbillings@longbranch.org</a>	732-222-7000		Yes
Other 1:	Howard Woolley	<a href="mailto:hwoolley@longbranch.org">hwoolley@longbranch.org</a>	732-222-7000	2/1/2013	Y-Authorizing Individual
Other 2:	Charles Shirley, Jr	<a href="mailto:Cshirley@longbranch.org">Cshirley@longbranch.org</a>	732-803-5144		Y- Representative
Other 3:	Stanley Dziuba	<a href="mailto:sdziuba@longbranch.org">sdziuba@longbranch.org</a>	732-904-4743	2/1/2013	Y-Alternate

**Please fill in the contact details for the person filling in this page:**

Name: James Winckowski  
 Title: Assistant Township Engineer  
 Representing: MANALAPAN, TOWNSHIP OF  
 Email: jwinckowski@cmeusa1.com  
 Phone: 732-462-7400x180

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Emergency Manager	Richard Hogan - OEM coordinator	<a href="mailto:rhogan@twp.manalapan.nj.us">rhogan@twp.manalapan.nj.us</a>	732-446-8319	7/25/2012	Y
Floodplain Manager/ Floodplain Administrator	Richard Hogan/James Winckowski, PE	<a href="mailto:jwinckowski@cmeusa1.com">jwinckowski@cmeusa1.com</a>	732-462-7400	7/25/2012	Y-Representative
Public Works Director / Assistant City Engineer	Alan Spector / James Winckowski, PE	<a href="mailto:ASpector@twp.manalapan.nj.us">ASpector@twp.manalapan.nj.us</a>	732-446-8403	4/12/2013	Y
Building Code Official	Richard Hogan	<a href="mailto:rhogan@twp.manalapan.nj.us">rhogan@twp.manalapan.nj.us</a>	732-446-8319	7/25/2012	Y
Fiscal/Budget Officer	Patricia Addario	<a href="mailto:PAddario@twp.manalapan.nj.us">PAddario@twp.manalapan.nj.us</a>	732-446-8338	4/12/2013	Y
Manager/Administrator	Tara Lovrich	<a href="mailto:TLovrich@twp.manalapan.nj.us">TLovrich@twp.manalapan.nj.us</a>	732-446-8305	4/12/2013	Y - Authorizing Individual
Elected Officials	Susan Cohen - Mayor	<a href="mailto:scohen@mtni.org">scohen@mtni.org</a>	732-446-8307	4/12/2013	Y
Other 1: 1st Deputy OEM Coordinator	Chris Marsala	<a href="mailto:CMarsala@manalapanpolice.org">CMarsala@manalapanpolice.org</a>	732-446-4300	4/12/2013	Y

**Please fill in the contact details for the person filling in this page:**

Name: Joseph Delorio  
 Title: Administrator/CFO  
 Representing: MANASQUAN, BOROUGH OF  
 Email: [ideiorio@manasquan-nj.com](mailto:ideiorio@manasquan-nj.com)  
 Phone: 732-223-0544 x233

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	T&M Associates	<a href="mailto:croonev@tandmassociates.com">croonev@tandmassociates.com</a>	732-473-3400	7/31/2012	Yes
Emergency Manager	David Kircher - OEM Coordinator	<a href="mailto:oem@manasquan-nj.com">oem@manasquan-nj.com</a>	732-299-7490	7/31/2012	Y - Authorizing Individual and Representative
Floodplain Manager/ Floodplain Administrator	Albert Ratz	aratz@manasquan-nj.com	732-223-0544 x 246	7/31/2012	Yes
Public Works Director / City Engineer	Tom Nicaastro	tnicaastro@manasquan-nj.com	732-223-0369	7/31/2012	Yes
Building Code Official	Albert Ratz	aratz@manasquan-nj.com	732-223-0544 x 246	7/31/2012	Yes
Fiscal/Budget Officer	Joseph Delorio - CFO	<a href="mailto:ideiorio@manasquan-nj.com">ideiorio@manasquan-nj.com</a>	732-223-9530	7/31/2012	Yes
Manager/Administrator	Joseph Delorio - Borough Administrator	<a href="mailto:ideiorio@manasquan-nj.com">ideiorio@manasquan-nj.com</a>	732-223-9530	7/31/2012	Yes
Elected Officials	Mayor George Dempsey	gdempsey@manasquan-nj.com	732-223-0544	7/31/2012	Yes
Other 1: Deputy OEM Coordinator	Christopher Tucker	<a href="mailto:oem@manasquan-nj.com">oem@manasquan-nj.com</a>	732-299-7190	7/31/2012	Y - Joint Representative
Other 2: Support Staff	Kevin Thomson	hurricanesandy@manasquan-nj.com	732-223-0544 x233	7/31/2012	Yes
Other 3: Construction, Code, Planning & Zoning Dept. Head	Frank DiRoma	<a href="mailto:fdiroma@manasquan-nj.com">fdiroma@manasquan-nj.com</a>	732-223-0544	9/10/2013	Yes

**Please fill in the contact details for the person filling in this page:**

Name: Robert Miller  
 Title: OEM Deputy Coordinator  
 Representing:  
 Email: [bmiller@marlboro-nj.gov](mailto:bmiller@marlboro-nj.gov)  
 Phone: 732-513-7897

MARLBORO, TOWNSHIP OF

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Laura Neumann - CME Associates	<a href="mailto:lauran@cmcmeusa1.com">lauran@cmcmeusa1.com</a>	732-536-0200, ext. 1214	3/8/2013	Y
Emergency Manager	Bruce Hall - Emergency Management Coordinator	<a href="mailto:behall@marlboropd.org">behall@marlboropd.org</a>	732-536-0100, ext. 1459	6/29/2012	Y-Authorizing Individual
Floodplain Manager/ Floodplain Administrator	Joe Labruzzo	<a href="mailto:jlabruzzo@marlboro-nj.gov">jlabruzzo@marlboro-nj.gov</a>	732-536-0200, ext. 1613	3/8/2013	Y
Public Works Director / City Engineer	Bob DiMarco - Director of Public Works	<a href="mailto:bdimarco@marlboro-nj.gov">bdimarco@marlboro-nj.gov</a>	732-536-0188	6/29/2012	Y-Alternate
Building Code Official	Joe Labruzzo	<a href="mailto:jlabruzzo@marlboro-nj.gov">jlabruzzo@marlboro-nj.gov</a>	732-536-0200, ext. 1613	3/8/2013	Y
Fiscal/Budget Officer	Al Steinberg	<a href="mailto:asteinberg@marlboro-nj.gov">asteinberg@marlboro-nj.gov</a>	732-536-0200, ext. 1231	3/8/2013	Y
Manager/Administrator	Jonathan Capp	<a href="mailto:jcapp@marlboro-nj.gov">jcapp@marlboro-nj.gov</a>	732-536-0200, ext. 1207	3/8/2013	Y
Elected Officials					
Other 1: Deputy EMC	Robert Miller	<a href="mailto:bmiller@marlboro-nj.gov">bmiller@marlboro-nj.gov</a>	732-536-0188	6/29/2012	Y-Representative
Other 2: Mayor	Jonathan Hornik	<a href="mailto:jhornik@marlboro-nj.gov">jhornik@marlboro-nj.gov</a>	732-536-0200, ext 1200	10/21/2013	Y
Other 3: Council Person	Frank LaRocca	<a href="mailto:flarocca@marlboro-nj.gov">flarocca@marlboro-nj.gov</a>	732-536-0200, ext. 1233	10/21/2013	Y

**Please fill in the contact details for the person filling in this page:**

Name: Thomas Falco Title: OEM Coordinator Representing: Email: tfalco@matawanpolice.org Phone: 732-290-2024	MATAWAN, BOROUGH OF
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Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Robert Bucco	<a href="mailto:rw@bpmengineering.com">rw@bpmengineering.com</a>	732-696-8288	3/26/2013	Y
Emergency Manager	Thomas Falco - OEM coordinator	<a href="mailto:tfalco@matawanpolice.org">tfalco@matawanpolice.org</a>	908-601-0317	7/31/2012	Y-Representative
Floodplain Manager/ Floodplain Administrator	John Quinn	<a href="mailto:john.quinn@matawanborough.com">john.quinn@matawanborough.com</a>	732-687-3037	3/26/2013	Y
Public Works Director / City Engineer	John Applegate	<a href="mailto:john.applegate@matawanborough.com">john.applegate@matawanborough.com</a>	848-207-6327	3/26/2013	Y
Building Code Official	John Quinn	<a href="mailto:john.quinn@matawanborough.com">john.quinn@matawanborough.com</a>	732-687-3037	3/26/2013	Y
Fiscal/Budget Officer	Monica Antista, CFO	<a href="mailto:monica.antista@matawanborough.com">monica.antista@matawanborough.com</a>	732-566-3898 x606	3/26/2013	Y
Manager/Administrator	Louis Ferrara	<a href="mailto:louis.ferrara@matawanborough.com">louis.ferrara@matawanborough.com</a>	732-566-3898 x601	3/26/2013	Y
Elected Officials	Paul Buccellato - Mayor	<a href="mailto:paul.buccellato@verizon.net">paul.buccellato@verizon.net</a>	732-610-5660	7/31/2012	Y-Authorizing Individual
Other 1: 1st Deputy OEM Coordinator	Richard Michitsch	<a href="mailto:richard.michitsch@gmail.com">richard.michitsch@gmail.com</a>	908-461-5129	7/31/2012	Y-Alternate
Other 2: 2nd Deputy OEM Coordinator	Timothy Clifton	<a href="mailto:tim.clifton@hotmail.com">tim.clifton@hotmail.com</a>	732-522-2291	7/31/2012	Y
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Charles W. Rogers  
 Title: OEM Coordinator  
 Representing: MIDDLETOWN, TOWNSHIP OF  
 Email: [crogers@middletownnj.org](mailto:crogers@middletownnj.org)  
 Phone: 732-615-2129

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Jason Greenspan	<a href="mailto:jgreensp@middletownnj.org">jgreensp@middletownnj.org</a>	732-615-3214	7/31/2012	Yes
Emergency Manager	Charles Rogers, III - OEM Coordinator	<a href="mailto:crogers@middletownnj.org">crogers@middletownnj.org</a>	732-615-2129	7/1/2012	Y-Representative
Floodplain Manager/ Floodplain Administrator	Joe Kachinsky	<a href="mailto:jkachins@middletownnj.org">jkachins@middletownnj.org</a>	732-615-2004	7/31/2012	Yes
Public Works Director / City Engineer	Ted Maloney	<a href="mailto:tmaloney@middletownnj.org">tmaloney@middletownnj.org</a>	732-615-2108	7/31/2012	Yes
Building Code Official	Joe Kachinsky	<a href="mailto:jkachins@middletownnj.org">jkachins@middletownnj.org</a>	732-615-2004	7/31/2012	Yes
Fiscal/Budget Officer	Nick Trasente	<a href="mailto:ntrasente@middletownnj.org">ntrasente@middletownnj.org</a>	732-615-2082	7/31/2012	Yes
Manager/Administrator	Anthony Mercantante	<a href="mailto:amercant@middletownnj.org">amercant@middletownnj.org</a>	732-615-2010	7/31/2012	Y-Authorizing Individual
Elected Officials	Mayor	<a href="mailto:mayoroffice@middletownnj.org">mayoroffice@middletownnj.org</a>	732-615-2024	7/31/2012	Yes
Other 1: Public Information Officer	Cindy Herrschaft	<a href="mailto:cherrs@middletownnj.org">cherrs@middletownnj.org</a>	732-615-2287	7/1/2012	Y-Alternate
Other 2:					
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Lori Maher  
 Title: Open Space Secretary  
 Representing: MILLSTONE, TOWNSHIP OF  
 Email: [L-Maher@millstone.nj.us](mailto:L-Maher@millstone.nj.us)  
 Phone: 732-446-4249 x 1103

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Richard Coppola	<a href="mailto:rtcoppola@gmail.com">rtcoppola@gmail.com</a>	609-275-5959	7/31/2012	Yes
Emergency Manager	Michael Kuczinski - OEM Coordinator	<a href="mailto:m-kuczinski@millstone.nj.us">m-kuczinski@millstone.nj.us</a>	732-895-3802	7/31/2012	Y-Authorizing Individual and Representative
Floodplain Manager/ Floodplain Administrator	Matt Shafai, PE	<a href="mailto:mattshafai@aol.com">mattshafai@aol.com</a>	732-446-4249 x 1104	7/31/2012	Y-Alternate
Public Works Director	Thomas E. Antus	<a href="mailto:twpadm@millstone.nj.us">twpadm@millstone.nj.us</a>	732-446-4249 x 1704	7/31/2012	Yes
City Engineer	Matt Shafai	<a href="mailto:mattshafai@aol.com">mattshafai@aol.com</a>	732-446-4249 x 1104	7/31/2012	Y-Alternate
Building Code Official	Michael Martin	<a href="mailto:m-martin@millstone.nj.us">m-martin@millstone.nj.us</a>	732-917-2953	7/31/2012	Yes
Fiscal/Budget Officer	Annette Murphy	<a href="mailto:a-murphy@millstone.nj.us">a-murphy@millstone.nj.us</a>	732-446-3712	7/31/2012	Yes
Manager/Administrator	Thomas E. Antus	<a href="mailto:twpadm@millstone.nj.us">twpadm@millstone.nj.us</a>	732-446-4249 x 1704	7/31/2012	Yes
Elected Officials	Nancy Grbelja, Mayor	<a href="mailto:n-grbelja@millstone.nj.us">n-grbelja@millstone.nj.us</a>	732-915-6964	7/31/2012	Yes
Elected Officials	Michael Kuczinski, Deputy Mayor	<a href="mailto:m-kuczinski@millstone.nj.us">m-kuczinski@millstone.nj.us</a>	732-895-3802	7/31/2012	Yes
Elected Officials	Bob Kinsey, Committeeman	<a href="mailto:b-kinsey@millstone.nj.us">b-kinsey@millstone.nj.us</a>	732-780-8389	7/31/2012	Yes
Elected Officials	Gary Dorfman, Committeeman	<a href="mailto:g-dorfman@millston.nj.us">g-dorfman@millston.nj.us</a>	732-208-9693	7/31/2012	Yes
Elected Officials	Fiore Masci, Committeeman	<a href="mailto:f-masci@millstone.nj.us">f-masci@millstone.nj.us</a>	732-735-1872	7/31/2012	Yes
Other 1: OEM Deputy Coordinator	Manny Blanco	<a href="mailto:blancom@optonline.net">blancom@optonline.net</a>	732-599-5540	7/31/2012	Y-Alternate
Other 2:					
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Dennis Cahill  
 Title: Emergency Coordinator  
 Representing: MONMOUTH BEACH, BOROUGH OF  
 Email: monmouthbeachoem@gmail.com  
 Phone: 732-904-1817

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Bonnie Heard	<a href="mailto:bheard@tandmassociates.com">bheard@tandmassociates.com</a>	732-671-6400	7/31/2012	Yes
Emergency Manager	Dennis Cahill - Emergency Management Coordinator	<a href="mailto:monmouthbeachoem@gmail.com">monmouthbeachoem@gmail.com</a>	732-904-1817	7/31/2012	Y-Authorizing Individual and Representative
Floodplain Manager/ Floodplain Administrator	Don Clare	donclare07750@gmail.com	732-229-2204	7/31/2012	Yes
Public Works Director / City Engineer	Al Miller	<a href="mailto:almillermbpw@aol.com">almillermbpw@aol.com</a>	732-978-2011	7/31/2012	Yes
Building Code Official	Don Clare	<a href="mailto:donclare07750@gmail.com">donclare07750@gmail.com</a>	732-687-3267	7/31/2012	Yes
Previous Fiscal/Budget Officer	Jim Fuller	jfuller_cfo@comcast.net	732-229-2204	7/31/2012	Yes
Current Fiscal/Budget Officer	John Antonides	<a href="mailto:ida0928@aol.com">ida0928@aol.com</a>	848-459-6970	Dec. 2012	Yes
Manager/Administrator	Jerry Chismar	mbadmin@comcast.net	732-947-2496	7/31/2012	Yes
Elected Officials	Mayor Susan Howard	suehoward@comcast.net	732-687-1835	7/31/2012	Yes
Other 1: Deputy EMC	Cranston Van Bloem	<a href="mailto:hollanderco@prodigy.net">hollanderco@prodigy.net</a>	908-489-6955	7/31/2012	Y-Alternate
Other 2:					
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Mary Sapp  
 Title: Borough Administrator  
 Representing: NEPTUNE CITY, BOROUGH OF  
 Email: [marysapp@neptunecitynj.com](mailto:marysapp@neptunecitynj.com)  
 Phone: 732-988-4956

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Matt Shafai	<a href="mailto:mattshafai@aol.com">mattshafai@aol.com</a>	732-922-9229	4/1/2013	y
Emergency Manager	Edward Kirschenbaum	<a href="mailto:ncpd118@optonline.net">ncpd118@optonline.net</a>	732-614-4303	4/1/2013	Y-Representative
Floodplain Manager/ Floodplain Administrator	Matt Shafai	<a href="mailto:mattshafai@aol.com">mattshafai@aol.com</a>	732-922-9229	4/1/2013	y
Public Works Director / City Engineer	Gerrit DeVos	<a href="mailto:gerritdevos@neptunecitynj.com">gerritdevos@neptunecitynj.com</a>	732-682-9560	4/1/2013	y
Building Code Official	William Doolittle	<a href="mailto:bdoollittle@neptunetownship.org">bdoollittle@neptunetownship.org</a>	732-664-3817	4/1/2013	y
Fiscal/Budget Officer	William Folk	<a href="mailto:bfolk512@aol.com">bfolk512@aol.com</a>	732-539-5397	4/1/2013	y
Manager/Administrator	Mary Sapp - Borough Administrator	<a href="mailto:marysapp@neptunecitynj.com">marysapp@neptunecitynj.com</a>	732-567-2862	4/1/2013	Y-Authorizing Individual
Elected Officials	Robert Brown, Mayor	<a href="mailto:mayor@neptunecitynj.com">mayor@neptunecitynj.com</a>	732-776-7224 x21	4/1/2013	y
Other 1: Police Lieutenant	John Matthews	<a href="mailto:ncpd037@optonline.net">ncpd037@optonline.net</a>	732-775-1298 x38	4/1/2013	Y-Alternate
Other 2:					
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Leanne R. Hoffmann  
 Title: Director of Engineering and Planning  
 Representing: NEPTUNE, TOWNSHIP OF  
 Email: [lhoffmann@neptunetownship.org](mailto:lhoffmann@neptunetownship.org)  
 Phone: 732 988 5200 x 228

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Jennifer Beahm	<a href="mailto:jbeahm@cmeusa1.com">jbeahm@cmeusa1.com</a>	732 462 7400	10/1/2013	Y
Emergency Manager	Michael Bascom	<a href="mailto:mbascom@neptunetownship.org">mbascom@neptunetownship.org</a>	732 988 5200 x 241	7/15/2012	Y
Floodplain Manager/ Floodplain Administrator	Bill Doolittle	<a href="mailto:bdoolittle@neptunetownship.org">bdoolittle@neptunetownship.org</a>	732 988 5200 x 268	7/15/2012	Y
Public Works Director / City Engineer	Wayne Rode	<a href="mailto:wrode@neptunetownship.org">wrode@neptunetownship.org</a>	732 775 8797	7/15/2012	Y
Building Code Official	Bill Doolittle	<a href="mailto:bdoolittle@neptunetownship.org">bdoolittle@neptunetownship.org</a>	732 988 5200 x 268	7/15/2012	Y
Fiscal/Budget Officer	Michael Bascom	<a href="mailto:mbascom@neptunetownship.org">mbascom@neptunetownship.org</a>	732 988 5200 x 241	7/15/2012	Y
Manager/Administrator	Vito Gadeleta	<a href="mailto:vgadaleta@neptunetownship.org">vgadaleta@neptunetownship.org</a>	732 988 5200 x 232	1/1/2013	Y
Elected Officials	Eric Houghtaling	<a href="mailto:ehoughtaling@neptunetownship.org">ehoughtaling@neptunetownship.org</a>	732 988 5200 x 236	7/15/2012	Y-Authorizing Individual
Other 1: Emergency Management	Michael Bascom	<a href="mailto:mbascom@neptunetownship.org">mbascom@neptunetownship.org</a>	732-988-5200 x241	7/15/2012	Y-Representative
Other 2:	Leanne Hoffmann	<a href="mailto:lhoffmann@neptunetownship.org">lhoffmann@neptunetownship.org</a>	732-988-5200 x228	7/15/2012	Y-Alternate
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Tom Caruso  
 Title: Director, Emergency Management  
 Representing: OCEAN, TOWNSHIP OF  
 Email: [tcaruso@oceantwp.org](mailto:tcaruso@oceantwp.org)  
 Phone: 732-897-6066

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Marianne Wilensky Andrew Brannen - Township Manager	<a href="mailto:mwilensky@oceantwp.org">mwilensky@oceantwp.org</a>	732-531-5000 x3350	7/31/2012	Y
Emergency Manager	Tom Caruso - Emergency Management Director	<a href="mailto:tcaruso@oceantwp.org">tcaruso@oceantwp.org</a>	732-531-5000 x3378	7/31/2012	Y-Representative
Floodplain Manager/ Floodplain Administrator	Marianne Wilensky	<a href="mailto:mwilensky@oceantwp.org">mwilensky@oceantwp.org</a>	732-531-5000 x3350	7/31/2012	Y
Public Works Director / City Engineer	William McMahon	<a href="mailto:wmcMahon@oceantwp.org">wmcMahon@oceantwp.org</a>	732-531-5000 x3360	7/31/2012	Y
Building Code Official	Paul Vitale	<a href="mailto:pvitale@oceantwp.org">pvitale@oceantwp.org</a>	732-531-5000 x3352	7/31/2012	Y
Fiscal/Budget Officer	Stephen Gallagher	<a href="mailto:sgallagher@oceantwp.org">sgallagher@oceantwp.org</a>	732-531-5000 x3330	7/31/2012	Y
Manager/Administrator	Andrew Brannen - Township Manager	Andrew Brannen - Township Manager	732-531-5000 x3310	7/31/2012	Y-Authorizing Individual and Alternate
Elected Officials	William Larkin, Mayor	<a href="mailto:wlarKin@oceantwp.org">wlarKin@oceantwp.org</a>	732-531-5000 x3320	7/31/2012	Y
Other 1:	Chris Siciliano, Deputy Mayor	<a href="mailto:csiciliano@oceantwp.org">csiciliano@oceantwp.org</a>	732-531-5000 x3320	7/31/2012	Y
Other 2:	Mike Evans, Councilman	<a href="mailto:mEvans@oceantwp.org">mEvans@oceantwp.org</a>	732-531-5000 x3320	7/31/2012	Y
Other 3:	William Garofalo, Councilman	<a href="mailto:wGarofalo@oceantwp.org">wGarofalo@oceantwp.org</a>	732-531-5000 x3320	7/31/2012	Y

**Please fill in the contact details for the person filling in this page:**

Name: Mauro "Buzz" Baldanza  
 Title: OEM Coordinator  
 Representing: OCEANPORT, BOROUGH OF  
 Email: [OPD415@verizon.net](mailto:OPD415@verizon.net)  
 Phone: 732-904-0520- cell

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Mike Sullivan of Clarke Caton Hintz	<a href="mailto:mullivan@cchnj.com">mullivan@cchnj.com</a>	609.477.7307	9/1/2013	Y
Emergency Manager	Mauro Baldanza - Coordinator	<a href="mailto:opd415@verizon.net">opd415@verizon.net</a>	732-904-0520	Known	Y-Authorizing Individual and Representative
Floodplain Manager/ Floodplain Administrator	Sal Massaro	<a href="mailto:salvatorejrm@aim.com">salvatorejrm@aim.com</a>	(732) 233-7611-c	3/26/2013	y
Public Works Director / City Engineer	Bill White, Engineer	<a href="mailto:wwhite@maserconsulting.com">wwhite@maserconsulting.com</a>	(732) 383-1950 x3349	3/26/2013	y
Building Code Official	Sal Massaro	<a href="mailto:salvatorejrm@aim.com">salvatorejrm@aim.com</a>	(732) 233-7611-c	3/26/2013	y
Fiscal/Budget Officer	Greg Mayer	<a href="mailto:greg.mayers@verizon.net">greg.mayers@verizon.net</a>	908-403-9892-c	3/26/2013	y
Manager/Administrator	Open Position	N/A	732-222-8221-office	N/A	y
Elected Officials-Mayor	Michael Mahon	<a href="mailto:mayor@oceanportboro.com">mayor@oceanportboro.com</a>	(732) 539-4860-c	3/26/2013	y
Other 1: Deputy Coord.	Chris Baggot	<a href="mailto:cbchrisbaggot@gmail.com">cbchrisbaggot@gmail.com</a>	732-233-9058-c	3/26/2013	Y-Alternate
Other 2: Dep Coord.	Wes Sherman	<a href="mailto:WES767@aol.com">WES767@aol.com</a>	(732) 804-2845-c	3/26/2013	y
Other 3: Dep Coord	N/A	N/A	N/A	N/A	

**Use fill in the contact details for the person filling in this page:**

Name: Thomas J. Welsh  
 Title: Emergency Mgmt Coordinator  
 Presenting: RED BANK, BOROUGH OF  
 Email: [twelsh@redbanknj.org](mailto:twelsh@redbanknj.org)  
 Phone: 732-904-6865

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Richard Kramer	<a href="mailto:rkramer@tandmassociates.com">rkramer@tandmassociates.com</a>	732-671-6400	July 2012	Yes
Emergency Manager	Thomas Welsh - OEM Coordinator	<a href="mailto:twelsh@redbanknj.org">twelsh@redbanknj.org</a>	732-530-2777	July 2012	Y-Representative
Floodplain Manager/Floodplain Administrator	Stanley Sickels	<a href="mailto:ssickels@redbanknj.org">ssickels@redbanknj.org</a>	735-530-2748	July 2012	Yes
Public Works	Bobby Holiday (Supervisor)	<a href="mailto:bholiday@redbanknj.org">bholiday@redbanknj.org</a>	732-530-2770	July 2012	Y-Alternate
Municipal Engineer	Christine Ballard	<a href="mailto:cballard@tandmassociates.com">cballard@tandmassociates.com</a>	732-671-6400	July 2012	Yes
Building Code Official		<a href="mailto:ssickels@redbanknj.org">ssickels@redbanknj.org</a>	732-530-2748	July 2012	Yes
Fiscal/Budget Officer	Colleen Lapp	<a href="mailto:clapp@redbanknj.org">clapp@redbanknj.org</a>	732-530-2742	July 2012	Yes
Manager/Administrator	Stanley Sickels	<a href="mailto:ssickels@redbanknj.org">ssickels@redbanknj.org</a>	732-530-2748	July 2012	Yes
Elected Officials	Pasquale Menna - Mayor	<a href="mailto:pmenna@redbanknj.org">pmenna@redbanknj.org</a>	732-383-2750	July 2012	Y-Authorizing Individual
the 1:	Arthur V. Murphy	<a href="mailto:amurphy@redbanknj.org">amurphy@redbanknj.org</a>	732-530-2748	July 2012	Yes
the 2:	Edward Zipprich	<a href="mailto:ezipprich@redbanknj.org">ezipprich@redbanknj.org</a>	732-530-2748	July 2012	Yes
the 3:	Sharon Lee	<a href="mailto:slee@redbanknj.org">slee@redbanknj.org</a>	732-530-2748	July 2012	Yes

**Please fill in the contact details for the person filling in this page:**

Name: Ralph Warnick (Representative - notified 1/15/2013 and agreed to participate)  
 Title: Councilman, Community Health and Safety  
 Representing: ROOSEVELT, BOROUGH OF  
 Email: [ralphwarnick@comcast.net](mailto:ralphwarnick@comcast.net)  
 Phone: 609-490-0702

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Council Member Michael Ticktin	<a href="mailto:mticktin@aol.com">mticktin@aol.com</a>	609-947-0491	1/15/2013	yes-Alternate
Emergency Manager	April Suk	<a href="mailto:april.suk@pentair.com">april.suk@pentair.com</a>	609-490-0931	1/15/2013	yes
Floodplain Manager/ Floodplain Administrator	DCA				
Public Works Director / City Engineer	Council Member Tom Curry	<a href="mailto:tdjtsc3@comcast.net">tdjtsc3@comcast.net</a>	609-490-1477	1/15/2013	yes
Building Code Official	Ralph Kirkland	<a href="mailto:rck121@optonline.net">rck121@optonline.net</a>	908-770-6522	3/26/2013	yes
Fiscal/Budget Officer	George Lang	<a href="mailto:george@oneillandlang.com">george@oneillandlang.com</a>	732-991-5307	3/26/2013	yes
Manager/Admin/clerk	Krystyna Bieracka-Olejnik	<a href="mailto:rooseveltclerk@comcast.net">rooseveltclerk@comcast.net</a>	609-448-0539x4	3/26/2013	yes
Elected Officials	Elsbeth Battel, Mayor	<a href="mailto:twinkle171@earthlink.net">twinkle171@earthlink.net</a>	609-448-7701	1/15/2013	Y-Authorizing Individual
Other 1: Council Member	Peggy Malkin	<a href="mailto:peggymalkin@hotmail.com">peggymalkin@hotmail.com</a>	609-448-7644	3/26/2013	yes
Other 2: Council Member	Michelle Hermelee	<a href="mailto:michelle@bhskvassoa'ates">michelle@bhskvassoa'ates</a>	609-490-8827	3/26/2013	yes
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Thomas Rogers  
 Title: Administrator  
 Representing: RUMSON, BOROUGH OF  
 Email: [trogers@rumsonnj.gov](mailto:trogers@rumsonnj.gov)  
 Phone: 732-842-3300

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Stan Slachetka T and M Engineering	<a href="mailto:sslachetka@tandmassociates.com">sslachetka@tandmassociates.com</a>	732-671-6400	4/1/2013	Y
Emergency Manager	open position (predecessor was James Hempstead)	open position	open position	open position (predecessor was notified 8/1/2012)	Y-Representative
Floodplain Manager/ Floodplain Administrator	Dennis Peras	<a href="mailto:dperas@rumsonnj.gov">dperas@rumsonnj.gov</a>	732-842-3300	4/1/2013	Y
Public Works Director / City Engineer	Mark Wellner	<a href="mailto:mwellner@rumsonnj.gov">mwellner@rumsonnj.gov</a>	732-842-3300	4/1/2013	Y
Building Code Official	Dennis Peras	<a href="mailto:dperas@rumsonnj.gov">dperas@rumsonnj.gov</a>	732-842-3300	4/1/2013	Y
Fiscal/Budget Officer	Helen Graves	<a href="mailto:hgraves@rumsonnj.gov">hgraves@rumsonnj.gov</a>	732-842-3300	4/1/2013	Y
Manager/Administrator	Thomas Rogers - Administrator and Municipal Clerk	<a href="mailto:trogers@rumsonnj.gov">trogers@rumsonnj.gov</a>	732-842-3300	8/1/2012	Y-Authorizing Individual and Alternate
Elected Officials					
Other 1: Mayor	John Ekdahl	<a href="mailto:mavor@rumsonnj.gov">mavor@rumsonnj.gov</a>	732-842-3300	4/1/2013	Y
Other 2: Council	Ben Day	Council@rumsonnj.gov	732-842-3300	4/1/2013	Y
Waste Water	<del>Fred Shea</del>	<del><a href="mailto:fshea@rumsonnj.gov">fshea@rumsonnj.gov</a></del>	<del>732-842-3300</del>	<del>4/1/2013</del>	<del>Y</del>
Police	Scott Paterson	<a href="mailto:spaterson@rumsonnj.gov">spaterson@rumsonnj.gov</a>	732-842-0500	4/1/2013	Y

**Please fill in the contact details for the person filling in this page:**

Name: Read Murphy  
 Title: OEM Coordinator  
 Representing: SEA BRIGHT, BOROUGH OF  
 Email: [councilmanmurphy@gmail.com](mailto:councilmanmurphy@gmail.com)  
 Phone: (908) 489-6094

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development	Agreed to Participate (Yes/No)
Land Use/ Community Planner	Steven L. Nelson, AICP	<a href="mailto:snelson@njfuture.org">snelson@njfuture.org</a>	(610) 233-8118	10/1/13	Yes
Emergency Manager	C. Read Murphy	<a href="mailto:councilmanmurphy@gmail.com">councilmanmurphy@gmail.com</a>	(908) 489-6094	1/1/13 **	Yes- Authorizing Individual
Floodplain Manager/ Floodplain Administrator	Mary Tangolics	<a href="mailto:seabrightfloodplain@yahoo.com">seabrightfloodplain@yahoo.com</a>	(732) 842-0099	8/9/12	Yes
Public Works Superintendent	Mark Philpot	<a href="mailto:sbdpw36@gmail.com">sbdpw36@gmail.com</a>	(732) 842-0099	8/9/12	Yes
Building Code Official	Edward Wheeler	N/A	(732) 842-0099	8/9/12	Yes
Fiscal/Budget Officer	Phil Del Turco	<a href="mailto:fiscalofficer@comcast.net">fiscalofficer@comcast.net</a>	(732) 842-0099	8/9/12	Yes
Manager/Administrator	Joseph Verruni	<a href="mailto:seabrightclerk@comcast.net">seabrightclerk@comcast.net</a>	(732) 842-0099	12/1/12 *	Yes- Alternate
Elected Officials	Mayor Dina Long	<a href="mailto:mayordinalong@gmail.com">mayordinalong@gmail.com</a>	(732) 842-0099	8/9/12	Yes- Authorizing Individual
Other 1:	Councilman Brian Kelly	<a href="mailto:sbcouncilkelly@gmail.com">sbcouncilkelly@gmail.com</a>	(732) 842-0099	8/9/12	Yes - Alternate
Other 2:	Councilman Marc Leckstein	<a href="mailto:councilmanleckstein@gmail.com">councilmanleckstein@gmail.com</a>	(732) 842-0099	8/9/12	Yes - Alternate
Other 3:	Councilman James LoBiondo	<a href="mailto:councilmanlobiondo@gmail.com">councilmanlobiondo@gmail.com</a>	(732) 842-0099	8/9/12	Yes - Alternate

\* Previous Manager/Administrator - Richard Kochmar - 8/9/12

\*\* Previous Emergency Manager - Dan Drogin - 8/9/12

**Please fill in the contact details for the person filling in this page:**

Name: Lorraine P. Cari fi  
 Title: Clerk-CFO/Acting Administrator  
 Representing: SEA GIRT, BOROUGH OF  
 Email: [lcara@seagirtboro.com](mailto:lcara@seagirtboro.com)  
 Phone: 732.449.9433, x116

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Peter Avakian	<a href="mailto:lsavakian@aol.com">lsavakian@aol.com</a>	732.620.2976	11/1/2012	y
Emergency Manager	Tim Harmon - OEM Coordinator	<a href="mailto:tharmon@seagirtboro.com">tharmon@seagirtboro.com</a>	732-245-2860	7/31/2012	Y-Authorizing Individual and Representative
Floodplain Manager/ Floodplain Administrator	Peter Avakian	<a href="mailto:lsavakian@aol.com">lsavakian@aol.com</a>	732.620.2976	11/1/2012	Y
Public Works Director / City Engineer	Jared McKittrick Peter Avakian Engineer	<a href="mailto:jmckittrick@seagirtboro.com">jmckittrick@seagirtboro.com</a>	732.449.6463	10/1/2012	Y
Building Code Official	Sandy Ratz	<a href="mailto:sratz@springlakeboro.org">sratz@springlakeboro.org</a>	732.449.9433	12/1/2012	Y
Fiscal/Budget Officer	Lorraine Carafa	<a href="mailto:lcara@seagirtboro.com">lcara@seagirtboro.com</a>	732.449.9433	11/15/2012	Y
Manager/Administrator	Lorraine Carafa	<a href="mailto:lcara@seagirtboro.com">lcara@seagirtboro.com</a>	732.449.9433	10/1/2012	Y
Elected Officials	Ken Farell	<a href="mailto:fkf110@verizon.net">fkf110@verizon.net</a>	732.687.7239	10/1/2012	Y
Other 1: Deputy OEM Coordinator	Ed Sidley	<a href="mailto:esidley@seagirtboro.com">esidley@seagirtboro.com</a>	732-259-5393	7/31/2012	Y-Alternate
Other 2:					
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Jerzy Chojnacki  
 Title: OEM Coordinator  
 Representing: SHREWSBURY, BOROUGH OF  
 Email: [shrewsburyoem@yahoo.com](mailto:shrewsburyoem@yahoo.com)  
 Phone: 732-796-8331

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Dave Cranmer, P.E.	<a href="mailto:dcranmer@cranmerengineering.com">dcranmer@cranmerengineering.com</a>	732-212-8900	1/12/2013	Yes
Emergency Manager	Jerzy Chojnacki - OEM Coordinator	<a href="mailto:shrewsburyoem@yahoo.com">shrewsburyoem@yahoo.com</a>	732-796-8331	7/14/2012	Y-Representative
Floodplain Manager/ Floodplain Administrator	Dave Cranmer, P.E.	<a href="mailto:dcranmer@cranmerengineering.com">dcranmer@cranmerengineering.com</a>	732-212-8900	1/12/2013	Yes
Public Works Director / City Engineer	Robert Wentway	<a href="mailto:dpwmanager@comcast.net">dpwmanager@comcast.net</a>	732-741-4200 x401	6/27/2013	Yes
Building Code Official	Cary Costa	<a href="mailto:constructionofficial@shrewsburyboro.com">constructionofficial@shrewsburyboro.com</a>	732-741-4200 x119	6/27/2013	Yes
Fiscal/Budget Officer	Thomas X. Seaman	<a href="mailto:finance@shrewsburyboro.com">finance@shrewsburyboro.com</a>	732-741-4200x111	1/12/2013	Yes
Manager/Administrator	"	"	"	1/12/2013	Yes
Elected Officials	Donald Burden - Mayor	<a href="mailto:dburden@verizon.net">dburden@verizon.net</a>	732-747-3635	7/14/2012	Y-Authorizing Individual
Other 1: Deputy OEM Coordinator	Mark Bradley - OEM Deputy Coordinator	<a href="mailto:bradleyk5@verizon.net">bradleyk5@verizon.net</a>	732-859-1184	7/14/2012	Y-Alternate
Other 2:					
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Thomas J Herits PE PP PLS  
 Title: Engineer  
 Representing: SHREWSBURY, TOWNSHIP OF  
 Email: [therits@maserconsulting.com](mailto:therits@maserconsulting.com)  
 Phone:

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Thomas J Herits	<a href="mailto:therits@maserconsulting.com">therits@maserconsulting.com</a>	732-261-7934	7/31/2012	Yes
Emergency Manager	Daniel Dunn - OEM Coordinator	<a href="mailto:dunn.daniel@gmail.com">dunn.daniel@gmail.com</a>	732-986-3207	7/31/2012	Y-Representative
Floodplain Manager/ Floodplain Administrator	Thomas J Herits	<a href="mailto:therits@maserconsulting.com">therits@maserconsulting.com</a>	732-261-7934	7/31/2012	Yes
Public Works Director / City Engineer	Thomas J Herits	<a href="mailto:therits@maserconsulting.com">therits@maserconsulting.com</a>	732-261-7934	7/31/2012	Yes
Building Code Official	State of NJ	732-531-8778 fax	732-517-1393	5/31/2013	Yes
Fiscal/Budget Officer	Addie Schmidt	<a href="mailto:addieschmidt@hotmail.com">addieschmidt@hotmail.com</a>	732-542-0675	7/31/2012	Yes
Manager/Administrator	Jan Delonardo	<a href="mailto:jannet.2@netzero.com">jannet.2@netzero.com</a>	732-542-0675	7/31/2012	Yes
Elected Officials	Edward Nolan - Mayor	<a href="mailto:enolan4208@comcast.net">enolan4208@comcast.net</a>	732-542-0675	7/31/2012	Y-Authorizing Individual
Other 1:					
Other 2:					
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Peter Meape  
 Title: Assistant OEM Coordinator  
 Representing: SPRING LAKE, BOROUGH OF  
 Email: [pmeade7174@aol.com](mailto:pmeade7174@aol.com)  
 Phone: 732-977-5934

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Nicholas Sapnar	<a href="mailto:Nsapnar@springlakeboro.org">Nsapnar@springlakeboro.org</a>	732-499-0800 ext 620	10/3/2013	Yes
Emergency Manager	Edward Kerr - OEM Coordinator	<a href="mailto:Ekerr@springlakeboro.org">Ekerr@springlakeboro.org</a>	732-449-1234	7/31/2012	Y-Representative
Floodplain Manager/ Floodplain Administrator	Albert "Sandy" Ratz	<a href="mailto:sratz@springlakeboro.org">sratz@springlakeboro.org</a>	732-449-0800 ext 609	7/31/2012	Yes
Public Works Director / City Engineer	Frank Philips	<a href="mailto:Fphilips@springlakeboro.org">Fphilips@springlakeboro.org</a>	732-449-0800 ext 24	9/30/2012	Yes
Building Code Official	Steven K. Roe	<a href="mailto:Sroe@springlakeboro.org">Sroe@springlakeboro.org</a>	732-449-0800 ext 613	5/1/2012	Yes
Fiscal/Budget Officer	Robbin D. Kirk	<a href="mailto:rkirk@springlakeboro.org">rkirk@springlakeboro.org</a>	732-449-0800 ext 616	7/31/2012	Yes
Manager/Administrator	W. Bryan Dempsey - Borough Administrator	<a href="mailto:Bdempsey@springlakeboro.org">Bdempsey@springlakeboro.org</a>	732-687-9857	7/31/2012	Y-Authorizing Individual
Elected Officials					Yes
Other 1:	Peter Meade - Assistant OEM Coordinator	<a href="mailto:PMeade7174@aol.com">PMeade7174@aol.com</a>	732-977-5934	5/15/2013	Y-Alternate
Other 2: Mayor	Jennifer Naughton	<a href="mailto:Jnaughton@springlakeboro.org">Jnaughton@springlakeboro.org</a>	732-974-7842	7/31/2012	Yes
Other 3: Council President	Janice Venables	<a href="mailto:Jvenables@springlakeboro.org">Jvenables@springlakeboro.org</a>	732-449-0789	7/31/2012	Yes

**Please fill in the contact details for the person filling in this page:**

Name: JOSEPH C. MAY  
 Title: Borough Engineer  
 Representing: SPRING LAKE HEIGHTS, BOROUGH OF  
 Email: [jmay@springlakeheights.com](mailto:jmay@springlakeheights.com)  
 Phone: 732-449-3500

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Engineer	Joseph May	<a href="mailto:jmay@springlakeheights.com">jmay@springlakeheights.com</a>	908-770-5787	7/1/2013	Y
Emergency Manager	Rita Murphy - OEM Coordinator	<a href="mailto:oem@springlakeheights.com">oem@springlakeheights.com</a>	732-449-3500	summer 2012	Y-Representative
Floodplain Manager/ Floodplain Administrator	Sandy Ratz, Jr - Construction Official	<a href="mailto:Sratz@springlakeboro.org">Sratz@springlakeboro.org</a>	732-449-3252 908-670-6688	7/1/2013	Y
Public Works Director	Art Herner	<a href="mailto:aherner@springlakeheights.com">aherner@springlakeheights.com</a>	732-921-7844	7/1/2013	N
Building Code Official	Sandy Ratz, Jr - Construction Official	<a href="mailto:Sratz@springlakeboro.org">Sratz@springlakeboro.org</a>	732-449-3252 908-670-6688	7/1/2013	Y
Fiscal/Budget Officer	Catherine Francolino CFO (acting)	<a href="mailto:cfrancolino@springlakeheights.com">cfrancolino@springlakeheights.com</a>	732-449-3500	7/1/2013	N
Manager/Administrator	J. Delaney, Borough Administrator	<a href="mailto:jdelaney@springlakeheights.com">jdelaney@springlakeheights.com</a>	732-449-3500	summer 2012	Y-Authorizing Individual and Alternate
Elected Officials					
Other 1:	Gavino Maccanico - Mayor	<a href="mailto:mayor@springlakeheights.com">mayor@springlakeheights.com</a>	732-449-3500	7/8/2013	N
Other 2:	Sara King - Council President	<a href="mailto:sking@springlakeheights.com">sking@springlakeheights.com</a>	732-449-3500	7/8/2013	N
Other 3:	Patricia N. Cindea - councilperson	<a href="mailto:pcindea@springlakeheights.com">pcindea@springlakeheights.com</a>	732-449-3500	7/8/2013	N
	Richard T. Diver - councilperson	<a href="mailto:rdiver@springlakeheights.com">rdiver@springlakeheights.com</a>	732-449-3500	7/8/2013	N
	James Shuler - councilperson	<a href="mailto:jshuler@springlakeheights.com">jshuler@springlakeheights.com</a>	732-449-3500	7/8/2013	N
	Christopher Tienken - councilperson	<a href="mailto:ctienken@springlakeheights.com">ctienken@springlakeheights.com</a>	732-449-3500	7/8/2013	N
	Thomas M. Vorbach - councilperson	<a href="mailto:tvorbach@springlakeheights.com">tvorbach@springlakeheights.com</a>	732-449-3500	7/8/2013	N

**Please fill in the contact details for the person filling in this page:**

Name: David Boehning  
 Title: Deputy Coordinator  
 Representing: TINTON FALLS, BOROUGH OF  
 Email: [dboehning@tintonfalls.com](mailto:dboehning@tintonfalls.com)  
 Phone: 732-542-3400 x235

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use Regulator	Lori Paone- Code Enforcement & Zoning Officer	<a href="mailto:lpayne@tintonfalls.com">lpayne@tintonfalls.com</a>	732-542-3400 x240	6/20/2013	Y
OEM Deputy Coordinator	David Boehning	<a href="mailto:dboehning@tintonfalls.com">dboehning@tintonfalls.com</a>	732-542-3400 x235	7/1/2012	Y-Joint Representative
Floodplain Administrator	David Marks - Engineer	<a href="mailto:dmm@tintonfalls.com">dmm@tintonfalls.com</a>	732-542-3400 x214	4/1/2013	Y-Representative
Borough Engineer	David Marks	<a href="mailto:dmm@tintonfalls.com">dmm@tintonfalls.com</a>	732-542-3400 x214	4/1/2013	Y-Representative
Building Code Official	Robert Corby	<a href="mailto:rcorby@tintonfalls.com">rcorby@tintonfalls.com</a>	732-542-3400 x241	6/20/2013	Y
Borough CFO	Thomas Fallon	<a href="mailto:tfallon@tintonfalls.com">tfallon@tintonfalls.com</a>	732-542-3400 x224	6/1/2013	Y
Borough Administrator	Michael Muscillo	<a href="mailto:mmuscillo@tintonfalls.com">mmuscillo@tintonfalls.com</a>	732-542-3400 x211	6/3/2013	Y-Authorizing Individual
Mayor	Gerald M. Turning, Sr.	<a href="mailto:mayor@tintonfalls.com">mayor@tintonfalls.com</a>	732-542-3400 x211	6/1/2013	Y-Authorizing Individual
OEM Coordinator	John Mack	<a href="mailto:jmack@tintonfalls.com">jmack@tintonfalls.com</a>	732-542-3400 x222	7/1/2012	Y-Alternate
Public Works Director	Gary Gebele	<a href="mailto:ggebele@tintonfalls.com">ggebele@tintonfalls.com</a>	732-542-3400 x248	6/1/2013	Y
Borough Council President	Gary Baldwin	<a href="mailto:gbaldwin@tintonfalls.com">gbaldwin@tintonfalls.com</a>	732-542-3400 x 260	6/1/2013	Y

**Please fill in the contact details for the person filling in this page:**

Name:	Dennis Dayback
Title:	Borough Engineer
Representing:	UNION BEACH, BOROUGH OF
Email:	<a href="mailto:ddayback@tandmassociates.com">ddayback@tandmassociates.com</a>
Phone:	732-671-6400

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	T&M Associates	<a href="mailto:ddayback@tandmassociates.com">ddayback@tandmassociates.com</a>	732-671-6400	17-Jul-12	Yes
Emergency Manager	Michael Harriott - OEM Coordinator	<a href="mailto:ubemc1@gmail.com">ubemc1@gmail.com</a>	732-264-7434	7/17/2012	Y-Representative
Floodplain Manager/ Floodplain Administrator	Bob Burlew	<a href="mailto:ubconstruction@optonline.net">ubconstruction@optonline.net</a>	732-739-1503	7/17/2012	Yes
Public Works Director / City Engineer	Dennis Dayback - Borough Engineer ( <i>T&amp;M Associates</i> )	<a href="mailto:ddayback@tandmassociates.com">ddayback@tandmassociates.com</a>	732-671-6400	7/17/2012	Y-Alternate
Building Code Official	Bob Burlew	<a href="mailto:ubconstruction@optonline.net">ubconstruction@optonline.net</a>	732-739-1503	7/17/2012	Yes
Fiscal/Budget Officer	Andrew Zabiega	<a href="mailto:ubfinance@optonline.net">ubfinance@optonline.net</a>	732-264-9029	7/20/2012	Yes
Manager/Administrator	Jennifer Meier - Borough Administrator	<a href="mailto:jwmaier@optonline.net">jwmaier@optonline.net</a>	732-734-7189	7/17/2012	Y-Authorizing Individual
Elected Officials	Mayor Paul J. Smith	<a href="mailto:paul.smith@iff.com">paul.smith@iff.com</a>	732 264-2277	7/20/2012	Yes
Other 1:	Councilman Albin J. Wicki	<a href="mailto:albinjwicki@optonline.net">albinjwicki@optonline.net</a>	732 264-2277	7/20/2012	Y-Alternate
Other 2:	Councilman Robert M. Howard, Jr.	<a href="mailto:rhowardub@optonline.net">rhowardub@optonline.net</a>	732 264-2277	7/20/2012	Y-Alternate
Other 3:					

**Please fill in the contact details for the person filling in this page:**

Name: Mike Conroy  
 Title: Emergency Management Coordinator  
 Representing: UPPER FREEHOLD, TOWNSHIP OF  
 Email: [mconroy@uftnj.com](mailto:mconroy@uftnj.com)  
 Phone: (609) 548-7191

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Ronald Gafgen	<a href="mailto:landuseuftnj@optonline.net">landuseuftnj@optonline.net</a>	609-758-7738 x222	7/31/2012	Y-Representative
Emergency Manager	Michael Conroy	<a href="mailto:oem@uftnj.com">oem@uftnj.com</a>	609-548-7191	7/31/2012	Y-Representative
Floodplain Manager/ Floodplain Administrator	Ronald Gafgen	<a href="mailto:rgafgen@uftnj.com">rgafgen@uftnj.com</a>	609-548-7191	7/31/2012	Y-Representative
Public Works Director / City Engineer	Sal Fiorenzo	<a href="mailto:DPW@uftnj.com">DPW@uftnj.com</a>	609-758-7738 x222	7/31/2012	Y-Representative
Building Code Official	Ronald Gafgen	<a href="mailto:rgafgen@uftnj.com">rgafgen@uftnj.com</a>	609-758-7738 x222	7/31/2012	Y-Representative
Fiscal/Budget Officer	Angela Loconte	<a href="mailto:aloconte@uftnj.com">aloconte@uftnj.com</a>	609-758-7738 x211	7/31/2012	No
Manager/Administrator	Dianne Kelly	<a href="mailto:dkelly@uftnj.com">dkelly@uftnj.com</a>	609-758-7738 Ext. 211	7/31/2012	Y-Authorizing Individual and Alternate
Elected Officials	STANLEY MOSLOWSKI JR. - Mayor	<a href="mailto:smoslowski@uftnj.com">smoslowski@uftnj.com</a>	609-758-7738 x210	7/31/2012	Y-Authorizing Individual and Alternate
Other 1:	STEPHEN J. ALEXANDER - Deputy Mayor	<a href="mailto:salexander@capehart.com">salexander@capehart.com</a>	609-758-7738 x210	7/31/2012	Y-Authorizing Individual and Alternate
Other 2:	LORISUE H. MOUNT	<a href="mailto:llansroh@yahoo.com">llansroh@yahoo.com</a>	609-758-7738 x210	7/31/2012	Y-Authorizing Individual and Alternate
Other 3:	ROBERT FABER	<a href="mailto:bfaber@uftnj.com">bfaber@uftnj.com</a>	609-758-7738 x210	7/31/2012	Y-Authorizing Individual and Alternate
Other 4:	ROBERT FRASCELLA	<a href="mailto:rfrascella@uftnj.com">rfrascella@uftnj.com</a>	609-758-7738 x210	7/31/2012	Y-Authorizing Individual and Alternate

**Please fill in the contact details for the person filling in this page:**

Name: Joseph Wilbert  
 Title: OEM, Deputy Coordinator  
 Representing: WALL, TOWNSHIP OF  
 Email: [coordinator@oemwalltwp.org](mailto:coordinator@oemwalltwp.org)  
 Phone: (732) 449-4500

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	John Hoffmann	<a href="mailto:jhoffmann@townshipofwall.com">jhoffmann@townshipofwall.com</a>	732-449-8444 ext.213	9/28/2012	Y
Emergency Manager	Joseph Wilbert - Deputy Coordinator	<a href="mailto:jwilbert@wallpolice.org">jwilbert@wallpolice.org</a>	732-449-4500 x.1135	7/24/2012	Y-Representative
Floodplain Manager/ Floodplain Administrator	Paul J. Rabenda	<a href="mailto:prabenda@townshipofwall.com">prabenda@townshipofwall.com</a>	732-449-8444 ext. 225	9/28/2012	Y
Public Works Director / City Engineer	Robert Hendrickson	<a href="mailto:bhendrickson@townshipofwall.com">bhendrickson@townshipofwall.com</a>	732-449-2700	9/28/2012	Y
Building Code Official	Matthew J. Zahorsky	<a href="mailto:mzahorsky@townshipofwall.com">mzahorsky@townshipofwall.com</a>	732-449-4500 ext.247	9/28/2012	Y
Fiscal/Budget Officer	Steve Mayer	<a href="mailto:smayer@townshipofwall.com">smayer@townshipofwall.com</a>	732-449-8444 ext. 258	9/28/2012	Y
Manager/Administrator	Jeffrey Bertrand - Township Administrator	<a href="mailto:jbertrand@townshipofwall.com">jbertrand@townshipofwall.com</a>	732-449-8444 ext. 216	7/24/2012	Y-Authorizing Individual
Elected Officials	Ann Marie Conte George K. Newberry	<a href="mailto:aconte@townshipofwall.com">aconte@townshipofwall.com</a>	732-449-8444 ext. 215	9/28/2012	Y
Other 1: OEM Coordinator	Robert Brice	<a href="mailto:rbrice@wallpolice.org">rbrice@wallpolice.org</a>	732-449-4500 x1125	7/24/2012	Y-Alternate

**Please fill in the contact details for the person filling in this page:**

Name: Paul Habermann  
 Title: OEM Coordinator  
 Representing: WEST LONG BRANCH, BOROUGH OF  
 Email: [phabermann@westlongbranch.org](mailto:phabermann@westlongbranch.org)  
 Phone: 732-229-5000

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Tom Thomas	<a href="mailto:tomplan@verizon.net">tomplan@verizon.net</a>	732-223-3215	4/11/2013	Yes
Emergency Manager	Paul Habermann	<a href="mailto:phabermann@westlongbranch.org">phabermann@westlongbranch.org</a>	732-229-5000	3/25/2013	Yes-Representative
Floodplain Manager/ Floodplain Administrator	Stan Midose	<a href="mailto:smidose@cityoflongbranch.nj.us">smidose@cityoflongbranch.nj.us</a>	732-571-5690	4/11/2013	Yes
Public Works Director / City Engineer	Fran Mullan	<a href="mailto:fmullan@tandmassociates.com">fmullan@tandmassociates.com</a>	732-671-6400	4/11/2013	Yes
Building Code Official	Stan Midose	<a href="mailto:smidose@cityoflongbranch.nj.us">smidose@cityoflongbranch.nj.us</a>	732-571-5690	4/11/2013	Yes
Fiscal/Budget Officer	Victor Cantillo / CFO	<a href="mailto:vcantillo@westlongbranch.org">vcantillo@westlongbranch.org</a>	732-571-8989	4/22/2013	Yes
Manager/Administrator	Victor Cantillo	<a href="mailto:vcantillo@westlongbranch.org">vcantillo@westlongbranch.org</a>	732-571-8989	4/22/2013	Yes
Elected Officials	Janet Tucci - Mayor	<a href="mailto:jtucci@westlongbranch.org">jtucci@westlongbranch.org</a>	732-229-1756	4/11/2013	Y-Authorizing Individual
Other 1: 1st Deputy OEM	Lawrence Mihlon	<a href="mailto:lmihlon@westlongbranch.org">lmihlon@westlongbranch.org</a>	732-229-5000	3/25/2013	Y-Alternate
Other 2: 2nd Deputy OEM	Steve Cioffi	<a href="mailto:scioffi@westlongbranch.org">scioffi@westlongbranch.org</a>	732-904-6723	3/25/2013	Y-Alternate
Other 3:					

**APPENDIX 1.3 – MEETING MATERIALS**

## **1 - PROJECT INITIATION MEETING – JUNE 8, 2012**

- Sign-in sheet
- Agenda





**Monmouth County Multi-Jurisdictional  
Hazard Mitigation Plan Update  
Project Initiation Meeting  
June 8, 2012  
10:00 a.m.**

**Monmouth County OEM Offices, 300 Halls Mill Road, Freehold, NJ**

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***AGENDA***  
***Refine Scope of Work and Schedule***

- Assessment of overall readiness of the CPG to begin the update process
- Plan Maintenance and Integration - CPG Activities/Progress since FEMA's approval
- Schedule and Scope of Work - Proposed Approach
- Meetings
- GIS - Point of Contact
- Purchase Order
- Outreach to the Public and Other Stakeholders

## **2 – CPG Meeting - July 31, 2012**

- Sign-in sheet, 2:45pm session
- Sign-in sheet, 7:45pm session
- Agenda
- PowerPoint presentation



Monmouth County Multi-Jurisdictional Hazard Mitigation Plan  
 Plan Update Kickoff Meeting - July 31, 2012 at 2:45 pm  
 Monmouth County Fire Academy, Auditorium, 1027 Route 33 East, Freehold, NJ

Last Name	First Name	Representing	Email Address	Phone
Dunn	Daniel	Shrewsbury Township	dunn.dan.cl.j@gmail.com	(732) 986-3207
SPORKE	Dennis	NJNG	DORRKECONJNG.ORG	732 938 6747
Mullen	James	Spring Lake	VZEEHITLDRVJ.MAY	732 539 6959
Bascam	Michael	Neptune Twp	MBS.COM.NEPTUNETOWNSHIP.NJ	732-988-5200 x441
Beaton	Lee	Monmouth County Health	lee.beaton@co.monmouth.nj.us	732-431-7456
Alexander	Earl	Deal / Interlaken	E.ALEXANDER@DEALPOLICE.CO.NJ	732-978-2101
Engelhart	Inkyung	MC Eng	inkyung.engelhart@co.monmouth.nj.us	732.431.7760
Temple	Robert	NC OCM	btemple@firemonmouth.com	732 - 618- 6367
HopE	Fred	Lake Como	Fhope@boro.lake-como.nj.us	732-661-3084
Mekosh	Louise	Lake Como	Lmekosh@boro.lake-como.nj.us	732 6813332 ext202
Goldfarb	Norman	Bradley Beach	goldline@septonline.net	908-489-8244
CAHILL	DENNIS	MONMOUTH BEACH	MONMOUTHBEACHOEH@GMAIL.COM	732-904-1817
Hogan	Richard	Manalapan	rhogan@Twp.Manalapan.NJ.US	732-446-8318
HUBENY	Austin	ARANNIC HIGHLANDS	AHUBENY@TWNJ.COM	732.251.1444 x3101
Oppegard	Michael	monmouth county	moppegard@mesosoft.org	732-431-7400



Monmouth County Multi-Jurisdictional Hazard Mitigation Plan  
 Plan Update Kickoff Meeting - July 31, 2012 at 2:45 pm  
 Monmouth County Fire Academy, Auditorium, 1027 Route 33 East, Freehold, NJ

Last Name	First Name	Representing	E-mail Address	Phone
WRIGHT	LORENE	Keypoint	LWRIGHT@KeypointInc.com	732-739-5722
Caruso	Tom	Ocean Twp	tcaruso@oceantwp.org	732-531-5000
Rogan	Ginger	Keansburg	DISPgin4@aol.com	732-787-0600
WOLF	Howard	FEMA - Key II	LAPUB17@pw.njosp.org	609-575-0202
GALLO	Tom	KEYPORT - OEM	tdg1cnj@yahoo	732 264 1581
HORNER	THOMAS	HAZLET OEM 1	oemc/hazletnj.org	732-264-1700
VACENTINO	BRIAN	"	bvlentiv@hazletnj.org	732-217-8680
GALLAGHER	MICHAEL	NJSP - OEM	lpp5698@gw-njosp.org	(732) 425-1005
ARDITO	STEVEN	FEMA - REG 2	Steven.ardito@dk5.gov	360-337-0056
COSENTINO	ARTHUR	West Long Branch OEM	acosentino@westlongbranchnj.org	732-571-5979
Cole	Lori	West Long Branch	lcole@westlongbranchnj.org	732-229-1756 x100
BALANZA	Buzz	OCCANABEL	OP045@verizon.net	732-908-0520
/	/	Keats Branch		
Fitzgerald	Amy	Mon City Economic Dev	amy.fitzgerald@co.monmouth.nj.us	732-431-7470
VACENTINO	LORENE	West Long Branch PD	PHABEEN@WESTLONGBRANCHNJ.ORG	732-488-1121



Monmouth County Multi-Jurisdictional Hazard Mitigation Plan  
 Plan Update Kickoff Meeting -- July 31, 2012 at 2:45 pm  
 Monmouth County Fire Academy, Auditorium, 1027 Route 33 East, Freehold, NJ

Last Name	First Name	Representing	Email Address	Phone
BRADY	Robert	Aberdeen Twp	bob.bradley@abardm.nj.org	732-583-4200
Rogers	Charles	MC OF EM	charlesr15@middlesettlement.org	732-615-2129
Alessandro	Gianny	Mtceon	chessid@middlesettlement.org	732-615-2287
SPURN	KARIN	COCTS MCK TWP.	KSPURN@COUSMCKPOLICE.COM	732-780-7323
Fahnholz	Stephen	Bradley Beach	stahnholz@bradleybeachpd.com	732-785-6900
Cooke	Peter	Englishtown	oem@englishtownnj.com	732-446-7001 x30
BOEHNING	DAVID	TINTON FALLS	oem@tintonfalls.com	732-542 3400 x565
McGovern	JOSEPH	FAIR HAVEN	JPMcGovern@FAHaven.NJ	732-747-0241 X524
DMKSTWA	JESSE	FAIR HAVEN	jdykstra@fhavco.net	732-747-0241 X332
Richter	Robert	Allenhurst	topnot1391@yahoo.com chiefrichter@allenhurstnj.com	732-331-2255
FANKS	ARNARD	UNS	mclink.arn.fanks@uns.com	973 883 8559
Murnane	Margaret	MC OF EM	mmurnane@mcsonj.org	732431-7400
Foley	Anna	UNJ	anna.foley@uns.com	973-883 8800





Monmouth County Multi-Jurisdictional Hazard Mitigation Plan  
 Plan Update Kickoff Meeting - July 31, 2012 at 7:45 pm  
 Monmouth County Fire Academy, Auditorium, 1027 Route 33 East, Freehold, NJ

Last Name	First Name	Representing	Email Address	Phone
MURANE	Margaret	MCOEM	mmurane@mcsonj.org	732 431 7400
STEVE ARDITO		FEMA-REG 2	steve.ardito@delns.gov	360-337-0056
WOLF	Howard	FEMA Reg 2	LPPWOLF@gw.njspa.org	609 575-0202
OPPELAND	Michael	MCOEM	moppeand@mcsonj.org	732-577-5799
CARAFIA	LORRAINE	Lochubowr / Lakelawn	lorajna@lochubowr.us	732-531-4740
Piccolini	Raymond	Freehold Twp	rpiccolini@twp.freehold.nj.us	732-670-2169
Winkowski	JAMES	Mantoloking	jwinkowski@cmensaj.com	732-462-7400 x180
SPANASKE	RONALD	HTOEM	DEAN199@twp.hoewell.nj.us	732-204-8601
SPANASKE	RON	FARMINGDALE		11
WILBERT	JOSEPH	WPAUL TWP	JWILBERT@wpaul.twp.nj.us	732-446-0909
STAYKAC III	ALBY	FREEHOLD BOROUGH	ALBY.STAYKAC@cc.monmouth.nj.us	732-504-3945
CHOSNACKI	JERZY	SHREWSBURY BOROUGH	SHREWSBURY@YAHOO.COM	732 796-8331
FRANKS	ALICIANO	URS	nicola.aliciano@urs.com	973-883-8500
Foley	Anna	URS	anna.foley@urs.com	973-883-8500





# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## *Project Kickoff Meeting*

July 31, 2012

Two Sessions: 2:45 pm and 7:45 pm

Monmouth County Fire Academy, Auditorium, 1027 Route 33 East, Freehold, NJ

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### AGENDA

- **Welcome and Opening Remarks** ..... *Michael Oppegaard and Margaret Murnane Brooks, MCOEM*
- **Importance of the Project**.....*Anna Foley and Richard Franks, URS*
- **Overview of the Project**.....*Anna Foley and Richard Franks, URS*
  - Overview of the Current Plan
  - Benefits of Continued Participation in the Plan Update
  - Key Steps of the Plan Update Process
  - Participation Requirements for the Update
  - Project Timeline
  - Near Term Action Items for Participating Jurisdictions
    - Outreach to the Public and Other Stakeholders
  - Long Term Action Items for Participating Jurisdictions
    - Expanded Mitigation Strategies
  - Questions & Answers
- **FEMA's Perspective and Expectations**.....*Howard Wolfe, FEMA*
  - Participation
  - Outreach
  - Municipal Mitigation Strategies
- **Closing Remarks** ..... *Michael Oppegaard and Margaret Murnane Brooks, MCOEM*
- **Questions and Answers**.....*All*
- **Adjourn**



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

*Kickoff Meeting*  
*July 31, 2012*  
**2:45 pm and 7:45 pm**  
Monmouth County Fire Academy



## Today's Agenda

- Welcome and Opening Remarks.....MCOEM
- Importance of the Project.....URS
- Overview of the Project.....URS
- FEMA's Perspective and Expectations.....FEMA
- Closing Remarks.....MCOEM
- Questions.....All
- Adjourn





## Importance of the Project



Natural hazards are a part of our past, and they will be a part of our future.



Damages and impacts from an event can be staggering and often have long-term consequences.



Federal dollars are not always available to aid in the recovery process for *every* occurrence.



## Importance of the Project



Mitigation Planning allows us to understand our vulnerabilities, and develop targeted mitigation strategies to reduce these vulnerabilities.



Implementing mitigation strategies will, over time, work toward a goal of ensuring that future hazard event occurrences do not become 'disasters' for our communities.



## Importance of Regular Plan Maintenance

5year updates to reflect CURRENT conditions

Assessment of current development patterns and development pressures

Evaluation of new hazard or risk information

Progress in local mitigation efforts

Assess previous goals and actions

Evaluate progress in implementing actions

Adjust actions to address current realities

Changes in priorities

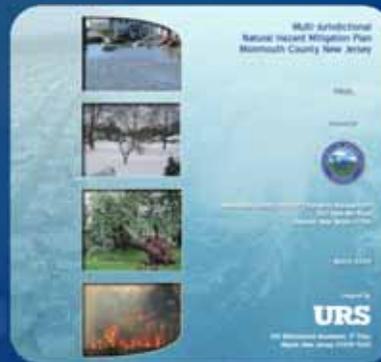


## Importance of the Project

Updating the Hazard Mitigation Plan regularly will ensure that it:

remains applicable to present-day understanding of vulnerabilities based on most recent studies, reports, event histories, etc.; and

continues to present the best path forward for reducing future damages when hazard events, inevitably, occur.





## Importance of the Project



When natural hazard events take place in undeveloped areas, no disaster occurs.



The magnitude of a disaster depends on the intensity of the event, the number of people and structures exposed, and the effectiveness of predisaster mitigation actions in protecting people and property.



Hazard mitigation is the key to becoming a more sustainable and disaster resistant community.



## Importance of the Project





## Overview of the Current Plan



Initial planning process was conducted between 2007 and 2008



Plan was approved by FEMA early in 2009



Addressed natural hazards



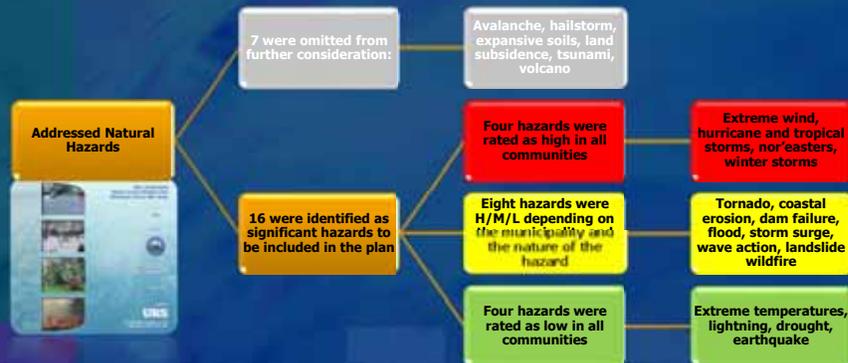
The County and 52 of its 53 municipalities met participation requirements to be included in the plan



All participants ultimately adopted the final 2009 Plan

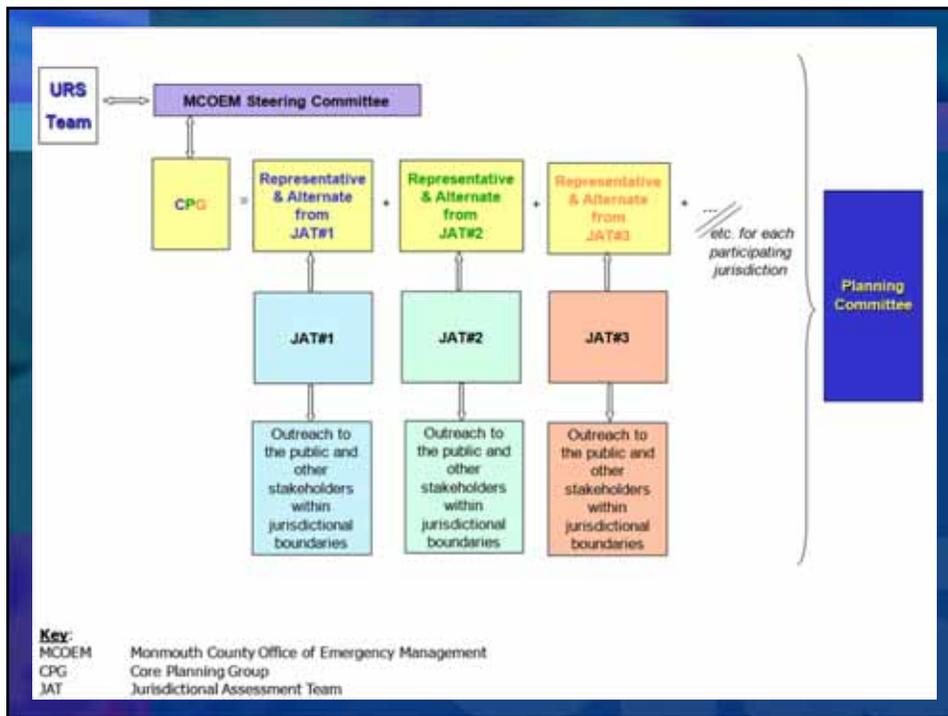


## Overview of the Current Plan





## Overview of the Current Plan





## Benefits of Continued Participation

Continued  
Compliance with  
DMA 2000

- All jurisdictions who participate in the process will maintain compliance with DMA 2000 once FEMA approves the final updated plan and the jurisdiction's local governing body formally adopts it.
- Maintain eligibility to apply for hazard mitigation project grants.

Partnerships

- Multi-jurisdictional planning committees can provide a forum for engaging in partnerships that could provide technical, financial, and/or staff resources in your effort to reduce the effects, and hence the costs, of hazards.



## Benefits of Continued Participation

Collaboration

- Multi-jurisdictional hazard mitigation plans are practical for addressing issues best dealt with on a larger scale, which do not recognize political boundaries.

Resource-  
Sharing

- Smaller jurisdictions can benefit from the additional resources and expertise that collaboration can bring.

Economies  
of Scale

- Multi-jurisdictional planning creates economies of scale.



## Benefits of Continued Participation

Implemented hazard mitigation measures will reduce:

- risk of damage to lives and property
- the impacts of a hazard event on the economic and social fabric of a community
- response time and costs



## Benefits of Continued Participation

- According to a study by the Multihazard Mitigation Council (part of the National Institute of Building Sciences:

***Every \$1 paid toward mitigation saves an average of \$4 in future disaster-related costs***





## Benefits of Continued Participation

Once the plan is approved, jurisdictions that participate fully will remain eligible to apply for grant funding for projects like these (few examples):

- Acquire/elevate/floodproof/relocate structures
- Road raising/relocation
- Culvert upgrades
- Bridge retrofits
- Utility system protective measures
- Wind retrofits for buildings
- Minor localized flood reduction projects (inc. retention/detention basins)
- Soil stabilization (geotextiles, rip rap, etc.)
- Wildfire mitigation (defensible space, ignition-resistant construction, fuel reduction)



## Benefits of Continued Participation

- Programs and Federal Share
  - ◆ HMGP 75%
  - ◆ PDM 75%
  - ◆ FMA 75%
  - ◆ RFC 100%
  - ◆ SRL 90%



## Mitigation Works!



## Key Steps of the Plan Update Process



The plan is updated and re-approved every five years

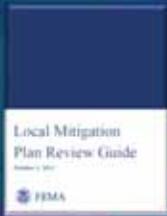
The plan must be expanded upon to address:

New guidance since the plan was first approved

Unique requirements for plan updates



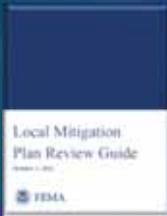
## Key Steps of the Plan Update Process



- Planning process just as with the original plan, including more outreach to the public and other stakeholders
- Update hazard and vulnerability data to reflect recent events, new data/studies/reports, etc.
- Update NFIP data (i.e., RLP, SRL, DFIRMs)
- Updates to reflect changes in development in hazard prone areas



## Key Steps of the Plan Update Process



- Update/expand mitigation strategies
  - to ensure a comprehensive range of mitigation actions covering *identified risks* in each jurisdiction
- Describe status of each action in previous plan
  - Completed?
  - Still relevant?
  - Will it be included in the updated action plan (if not, why)
  - Have any priorities changed? If so, how/why?



## Key Steps of the Plan Update Process

Additional Elements

Climate change / sea level rise

BCA's on the county's top 5 projects

HAZUS Level 2



GLOBAL FORECASTING INSTITUTE

According to this report, climate change may cause serious flooding! Well, we'll cross that bridge when we come to it.



\* cartoon by Chris Madden



## Participation Requirements

Each municipality must directly participate in the update in order to receive re-approval from FEMA and maintain compliance with DMA 2000 and eligibility to apply for hazard mitigation project grants.



## Participation Requirements

Participating jurisdictions must:

- Attend meetings
- Conduct outreach
- Provide feedback
- Update their municipal mitigation action plans
- Review and comment on the Updated Plan Draft



# Participation Requirements

## Outreach to the Public and Other Stakeholders

Required to be done by each participating municipality

See Guidance Memo #1 for tips

Use Outreach Log on page 5 of the memo to keep track of activities

**MEMORANDUM #1**  
**OUTREACH TO THE PUBLIC AND OTHER STAKEHOLDERS**  
 Summary of Outreach Activities

**TO:** Board of Selectmen, Town of [Name]  
**FROM:** [Name], [Title]  
**DATE:** [Date]

**OBJECTIVE:** To ensure that the public and other stakeholders are informed of the proposed updates to the Hazard Mitigation Plan and to provide an opportunity for public input.

**BACKGROUND:** As part of the annual 200 Hazard Mitigation Plan Update process, the Board of Selectmen is required to conduct outreach to the public and other stakeholders. This memorandum provides guidance on the required outreach activities.

**THE PLAN:** The Hazard Mitigation Plan Update process involves a series of steps, including public outreach, review of the plan, and adoption of the plan. The public outreach activities are a critical part of this process.

**RECOMMENDATION:** It is recommended that the Board of Selectmen approve the following outreach activities:

**DATE OF MEETING:** All outreach activities should be completed by May 1, 2013.

**ADDITIONAL NOTES:** Please refer to the attached Outreach Log for more details on the required activities.

Memorandum #1: Outreach to the Public and Other Stakeholders

**OUTREACH LOG:**  
 Summary of Outreach Activities to the General Public and Other Stakeholders

PARTICIPATING JURISDICTION: \_\_\_\_\_

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY

Please add additional pages as needed and return via email by May 1, 2013 to Anne Foley at: [anne.foley@jura.com](mailto:anne.foley@jura.com). For questions, please call 873-883-8388.



# Participation Requirements

## Outreach to the Public and Other Stakeholders

### Who Are Other Stakeholders?

#### Must include:

- ◆ Neighboring communities
- ◆ Local and regional agencies involved in hazard mitigation activities
- ◆ Agencies that have authority to regulate development
- ◆ Other interests

#### Other interests, include:

- ◆ Non-profit organizations (i.e., Red Cross, Salvation Army)
- ◆ Environmental groups
- ◆ Historic preservation groups
- ◆ Church organizations
- ◆ Parks organizations
- ◆ State, federal, and local government offices
- ◆ Business and development organizations
- ◆ Transportation entities
- ◆ Emergency service providers
- ◆ Academic institutions
- ◆ Utility providers
- ◆ Hospitals
- ◆ Tribal groups
- ◆ Large businesses
- ◆ Regional planning organizations

# FACT SHEET



**Monmouth County**  
Multi-Jurisdictional Hazard Mitigation Plan Update  
*PLAN FACTS* July 2012

Monmouth County has recently received grant funding from the Federal Emergency Management Agency (FEMA) to update its 2000 Multi-Jurisdictional Hazard Mitigation Plan.



**WHY IS HAZARD MITIGATION?**  
Natural hazards have the potential to cause property damage, loss of life, economic hardship, and threats to public health and safety. Hazard mitigation measures are the things you do today to be more protected in the future. They are measures taken before a disaster happens to reduce the impact that future disasters will have on people and property in the community. Mitigation reduces the risk of loss and creates a more disaster-resistant and sustainable community. Hazard mitigation measures are essential to breaking the typical disaster cycle of damage, reconstruction, and repeated damage.

After a plan is initially approved by FEMA, each of its participating jurisdictions must work to implement the hazard mitigation actions that they outlined in their respective mitigation strategies, and participate in a process to update the plan every five years. This marks the first of the plan's biennial updates since its inception. Monmouth County has once again obtained FEMA grant funding to cover the cost of this first plan update, and has agreed to continue its multi-jurisdictional approach, inviting all of the municipalities within the County to continue to participate in this important endeavor to become more sustainable and disaster-resistant. Participation will again involve attending meetings, providing feedback, and reaching out to the public and other key stakeholders in the community.

Hazards of all types have the potential to cause property loss, loss of life, economic hardship, and threats to public health and safety. While an important aspect of emergency management

Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Plan-Fact1

deals with disaster recovery (those actions that a community must take to repair damages and make itself whole in the wake of a natural or man-made disaster) an equally important aspect of emergency management involves hazard mitigation. Hazard mitigation measures are efforts taken before a disaster happens to lessen the impact that future disasters of that type will have on people and property in the community. They are things you do today to be more protected in the future. Hazard mitigation actions taken in advance of a hazard event are essential to breaking the typical disaster cycle of damage, reconstruction, and repeated damage. Cost-effective hazard mitigation actions can be long-term, cost-effective means of reducing the risk of loss and help create a more disaster-resistant and sustainable community.

A Hazard Mitigation Plan is a well-organized and well-documented evaluation of the hazards that a jurisdiction is susceptible to, and the extent to which these events will occur. Hazard Mitigation Plans identify an area's vulnerability to the effects of the natural hazards typically present in a certain area, as well as the goals, objectives, and actions required for minimizing future loss of life and property damage as a result of hazard events. The primary purpose of mitigation planning is to systematically identify policies, actions, and tools that can be used to implement those actions.

Hazard mitigation plans are developed before a disaster strikes. They identify community policies, actions, and tools for long-term implementation to reduce risk and potential for future losses.

Adopted, implemented and maintained on an ongoing basis, these plans will gradually, but steadily, lessen the impacts associated with hazard events throughout Monmouth County.

A project kickoff meeting of the County and participating jurisdictions will be held on July 11, 2012. Elected and appointed government officials, business leaders, volunteers of non-profit organizations, citizens, and other stakeholders are being invited to participate in the multi-jurisdictional plan update process as part of the Monmouth County Natural Hazard Mitigation Planning Committee (the "Planning Committee").

While natural disasters cannot be prevented from occurring, the continued implementation of a hazard mitigation plan over the long-term will gradually, but steadily, lessen the impacts associated with natural hazard events in Monmouth County.

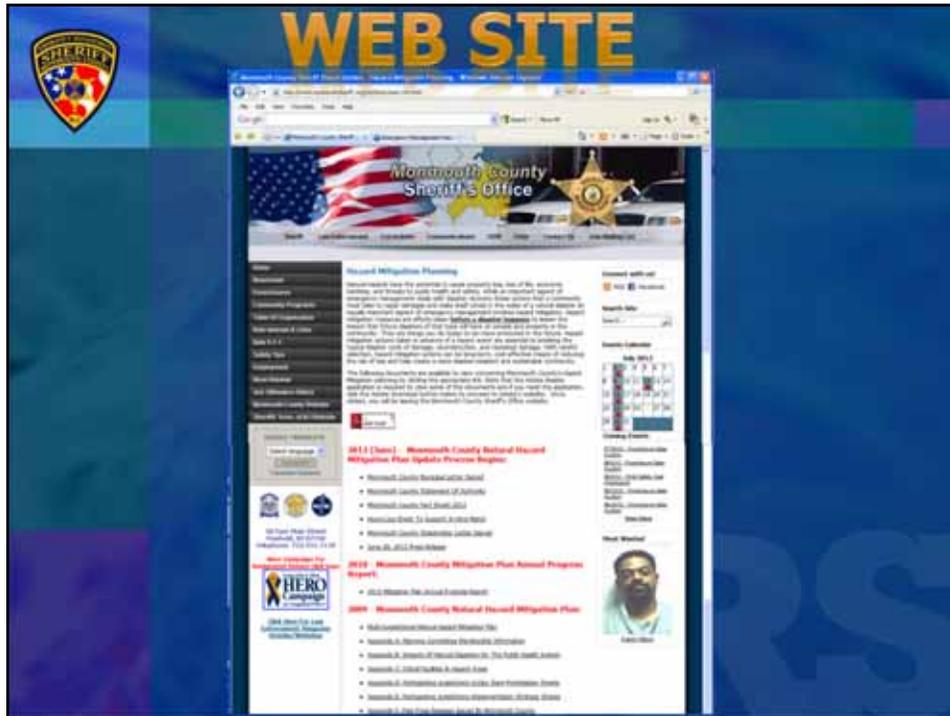
**HELPING**  
The mitigation plan update process began in June 2011. A draft of the updated plan is targeted for release at the end of May 2012.

**OUR MESSAGE**  
A Multi-Jurisdictional Hazard Mitigation Planning Page is on the County's Office of Emergency Management web site. We encourage you to check back for additional information and updates at: [www.monmouthnj.org](http://www.monmouthnj.org) - CDH-ENR.

**FOR MORE INFORMATION**

For questions or other feedback, or to find out how you can become involved in the process, please contact:

<p>Michael E. Capparedo Coordinator Office of Emergency Management Phone: 732-421-7400 E-mail: <a href="mailto:mcapparedo@monnj.org">mcapparedo@monnj.org</a></p>	<p>Margaret Marano Brovly County Coordinator Monmouth County Office of Emergency Management Phone: 732-421-7400 E-mail: <a href="mailto:dmurphy@monnj.org">dmurphy@monnj.org</a></p>
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## Participation Requirements

*Outreach to the Public and Other Stakeholders*

Make the Fact Sheet available if, for example, your municipality has a booth at a local fair/festival.

Publish information about the municipality's participation in the plan update in a local newspaper/newsletter, if possible.

Ensure that the public and other stakeholders are invited to review and provide comments on the Draft Plan Update, when it becomes available.

Consider using radio announcements, press advisories/releases, and local television.



## Participation Requirements

*Outreach to the Public and Other Stakeholders*

Targeted outreach to key stakeholders can be as simple as a phone call, letter or email sent to a list of a few key stakeholders that:

- Alerts them to the plan update;
- Provides them with a link to the upcoming County web site for more information on the process;
- Identifies a point of contact for more information if they have detailed questions or would like to become involved;
- Offers to send them copies of meeting minutes and a notification when the Draft is released, on request.



## Project Timeline





## Near Term Actions for Participating Jurisdictions

To Do:

Be ready to complete and return worksheets that will start to arrive via email in the coming weeks from Margaret

To Do:

Begin your outreach efforts:

- Discuss the plan update at regularly scheduled council/board meetings
- Post the plan update Fact Sheet on notice boards
- Establish a link on your jurisdiction's web site to the overall County Hazard Mitigation Plan Update page
- Targeted outreach to key local stakeholders



## Long Term Actions for Participating Jurisdictions

To Do:

Continued outreach

To Do:

Continued worksheet completion

To Do:

Start thinking about improvements to your mitigation strategies now



## Questions

URS



FEMA

## FEMA'S PERSPECTIVE & EXPECTATIONS

- Goal:
  - More sustainable and disaster-resistant communities
  - While natural disasters cannot be prevented from occurring, the continued implementation of good mitigation projects over the long-term will gradually, but steadily, lessen the impacts associated with hazard events in your communities.



## FEMA'S PERSPECTIVE & EXPECTATIONS

- Participation
  - Direct participation from each jurisdiction throughout the process
    - Meetings
      - Core Planning Group
      - Your Jurisdictional Assessment Team (JAT)
    - Worksheets providing feedback – vital



## FEMA'S PERSPECTIVE & EXPECTATIONS

- Outreach
  - General public and other stakeholders
  - Throughout the update process and during the plan maintenance stages
  - Meetings with your own municipal staff members are not 'outreach'
  - Make a concerted effort using various avenues



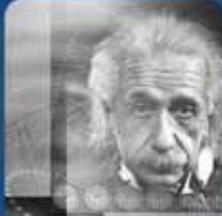
## FEMA'S PERSPECTIVE & EXPECTATIONS

- Municipal Mitigation Strategies
  - Hazard Mitigation: 'Recovery with Foresight'
  - True 'mitigation', as opposed to preparedness/ response
  - Improvement and expansion from the 2009 Plan





## Closing Remarks / Questions



► "The world we have created today as a result of our thinking thus far has problems which cannot be solved by thinking the way we thought when we created them."

Albert Einstein



## Contact Information

MCOEM

Michael Oppegaard  
moppegaard@mcsonj.org, 732-431-7400

Margaret Murnane Brooks  
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FEMA

Howard Wolfe:  
lppwolfh@gw.njsp.org, 609-575-0202

URS

Anna Foley  
anna.foley@urs.com, 973-883-8562

Richard Franks: richard.a.franks@urs.com,  
973-883-8559

### **3 – CPG Meeting – September 28, 2012**

- Sign-in sheet
- Agenda
- PowerPoint presentation



Last Name	First Name	Representing	Email Address	Phone
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ROGERS	TOM	RUMSON	TROGERS@RUMSON.NJ.GOV	732-842-3300
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# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Core Planning Group Meeting #2 - Working Session

September 28, 2012

10:00 am

Monmouth County Fire Academy, 1027 Route 33 East, Freehold, NJ

### AGENDA

- **Welcome and Opening Remarks**..... *Michael Oppegaard and Margaret Murnane Brooks, MCOEM*
- **Natural Hazards and Monmouth County**
  - **What are the hazards?**
    - URS will present the list of hazards identified as significant for the plan update.
    - CPG members (County and municipal representatives) will be expected to consider URS' hazard identification assessment, and indicate concurrence with findings by a show of hands.
  - **What is at stake?**
    - URS will highlight certain key issues with regard to natural hazard risks in the County, including: the NFIP and repetitive / severe repetitive loss properties; sea level rise; coastal erosion; hurricane risks; etc.
    - CPG members (County and municipal representatives) will be expected to participate in group discussion.
- **Incentives to Participate**
  - **Engaged participants → Approved Plan; Implementing Projects → Safer Communities**
    - URS will:
      - Reminder of the benefits of participating;
      - Highlight programs that are accessed by having an approved plan;
      - Provide an overview of typically eligible project types under these programs; and
      - Introduce some key information from the State Plan, including:
        - Goals
        - Project ranking system for HMGP
- **Viable Projects for Your Municipality Based on Past Experiences**
  - **Past Experiences - What are the problems?**
    - What happened during Hurricane Irene? What has happened during other types of hazard events?
      - URS will facilitate a group discussion and takes notes for incorporation into the plan.
      - CPG members (County and municipal representatives) will be expected to participate in the group discussion. The County will be the first to provide

feedback; other municipalities will follow. Be prepared to offer your perspective on things such as:

- What happened? Were these things expected? In expected locations? Were any impacts unanticipated, or with unanticipated consequences?
- Was the problem simply repaired to pre-disaster conditions, or was it mitigated?
- Did Irene highlight any areas in need of immediate attention (mitigation)?

- **Past Experiences - What are the solutions? (What can be done to mitigate?)**

- URS will facilitate a group discussion and takes notes for incorporation into the plan.
- CPG members (County and municipal representatives) will be expected to brainstorm about types of projects will provide solutions to the above discussed problems (keeping in mind project types that are potentially fundable, 'shovel-ready' actions that may also align well with State goals and rank competitively.

- **Food for Thought: What are other communities doing?**

- **Other New Jersey Communities / World View**

- URS will discuss some examples of community mitigation.
- CPG members (County and municipal representatives) will be expected to participate in group discussion of how these things may apply to Monmouth County communities.

- **Questions and Answers**.....All
- **Closing Remarks**..... *Michael Oppegard and Margaret Murnane Brooks, MCOEM*
- **Adjourn**

**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**

**Core Planning Group Meeting #2**  
**September 28, 2012**  
 10:00 am  
 Monmouth County Fire Academy

**Opening Remarks**

**Today's Agenda**

- Welcome and Opening Remarks
- Natural Hazards and Monmouth County  
*What are the hazards? What is at stake?*
- Incentives to Participate
- Viable Projects for Your Municipality based on Past Experiences  
*What are the problems? What are the solutions?*
- Food for Thought: What are other communities doing?
- Questions and Answers
- Closing Remarks
- Adjourn

**Working toward disaster resistance.....**

- ...is easy?
- ...can be accomplished quickly?
- ...requires limited resources?

**Hazard mitigation.....**

...requires the commitment of limited resources

- staff members
- their time
- local funding

.....but.....

Over the long term, it will cost more if we don't.

**2009 Plan Estimates of Average Annual Damages**

- Extreme wind \$ 0.5 M
- Hurricane and tropical storm \$ 12.5 M
- Riverine flood \$ 14.5 M
- Storm surge \$129.0 M

....and the list goes on for other hazards....

**Question:**  
Will these estimates go up? down?  
remain the same?

"...each locality controls the character of its disasters...the decisions they make today will determine future losses."

- Dennis Mileti, University of Colorado at Boulder, "Disasters by Design"



**Today's Agenda**

- Welcome and Opening Remarks
- Natural Hazards and Monmouth County  
*What are the hazards? What is at stake?*
- Incentives to Participate
- Viable Projects for Your Municipality based on Past Experiences  
*What are the problems? What are the solutions?*
- Food for Thought: What are other communities doing?
- Questions and Answers
- Closing Remarks
- Adjourn

**Natural Hazards and Monmouth County - What are the hazards?**

List of hazards identified as significant for the plan update = List of hazards identified as significant for initial plan development

**Natural Hazards and Monmouth County - What are the hazards?**



CPG concurrence with findings by a show of hands

**Natural Hazards and Monmouth County - What are the hazards?**

Summary Results of the Hazard Identification and Evaluation Process

<p><b>ATMOSPHERIC</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Avalanche</li> <li><input checked="" type="checkbox"/> Extreme Temperatures</li> <li><input checked="" type="checkbox"/> Extreme Wind</li> <li><input type="checkbox"/> Hailstorm</li> <li><input checked="" type="checkbox"/> Hurricane and Tropical Storm</li> <li><input checked="" type="checkbox"/> Lightning</li> <li><input checked="" type="checkbox"/> Ice 'n' snow</li> <li><input checked="" type="checkbox"/> Tornado</li> <li><input checked="" type="checkbox"/> Winter Storm</li> </ul> <p><b>HYDROLOGIC</b></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Coastal Erosion</li> <li><input checked="" type="checkbox"/> Dam Failure</li> <li><input checked="" type="checkbox"/> Drought</li> <li><input checked="" type="checkbox"/> Flood</li> <li><input checked="" type="checkbox"/> Storm Surge</li> <li><input checked="" type="checkbox"/> Wave Action</li> </ul>	<p><b>GEOLOGIC</b></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Earthquake</li> <li><input type="checkbox"/> Expansive Soils</li> <li><input checked="" type="checkbox"/> Landslide</li> <li><input type="checkbox"/> Land Subsidence</li> <li><input type="checkbox"/> Tsunami</li> <li><input type="checkbox"/> Volcano</li> </ul> <p><b>OTHER</b></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Wildfire</li> </ul>
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☑ = Hazard considered significant enough for further evaluation through Monmouth County's multi-jurisdictional hazard risk assessment

Note: Tsunamis will be addressed briefly in the context of the flood hazard discussion.

## Natural Hazards and Monmouth County - What is at stake?

### Flooding

- More than half of all federal disaster declarations for Monmouth County have involved flooding.
- NCDC and SHELUDS report that:
  - Monmouth County has been affected by 96 flood events between April 1993 and December 2011.
  - These events in total caused an estimated \$79.8M in property damages.



## Natural Hazards and Monmouth County - What is at stake?

### Flooding

- New Jersey is:
  - 5<sup>th</sup> in the country in terms of NFIP Payouts (1/78-3/11)
    - LA: \$16,041,923,827
    - TX: \$5,475,442,711
    - FL: \$3,602,905,854
    - MS: \$2,867,988,741
    - NJ: **\$970,512,663**
  - 4<sup>th</sup> in the country in terms of total # Repetitive Loss Properties
    - LA: 23,758
    - TX: 15,956
    - FL: 13,511
    - NJ: **12,089**

## Natural Hazards and Monmouth County - What is at stake?

### Flooding

- From 1972-2012, NFIP policy holders (>22,000) in Monmouth County have incurred 9,603 losses totaling \$109,494,629 in paid claims
- Real cost is likely to be even more (unpaid claims, uninsured losses)



## Natural Hazards and Monmouth County - What is at stake?

### Flooding

- Repetitive Loss Property:
  - two or more claims
  - of more than \$1,000 each
  - in any rolling 10-year window since 1978



## Natural Hazards and Monmouth County - What is at stake?

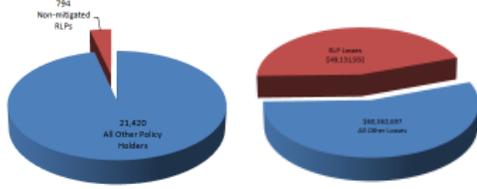
### Flooding

- As of May 31, 2012 Monmouth County has:
  - 22,214 NFIP policies with \$109,494,629 paid claims
  - 794 RLPs<sup>1</sup> with \$49,131,932 paid claims

<sup>1</sup> an additional 27 are mitigated RLPs

## Natural Hazards and Monmouth County - What is at stake?

### Flooding



**4% of NFIP insured properties contribute to 45% of losses**



## Natural Hazards and Monmouth County - What is at stake?

### Flooding

- Since May 2008:
  - The total value of all claims paid county-wide has increased by **42%** (\$76.8M in 2008 to \$109.5M in 2012)
  - The total value of all claims paid to RLPs has increased by **64%** (\$30M in 2008 to \$49.1M in 2012)



State Name	Community Name	Total Building Pages	Total Contents Pages	Total Paid	Average Pkg
NEW JERSEY	KENYON, BOROUGH OF	552,312.49	316,181.71	4	754,314.28
NEW JERSEY	MONMOUTH BEACH, BOROUGH OF	378,764.62	236,008.21	3	611,295.03
NEW JERSEY	ARDEEN, TOWNSHIP OF	620,875.07	438,888.81	20	380,438.18
NEW JERSEY	KENYON, BOROUGH OF	334,355.08	318,095.39	5	395,618.21
NEW JERSEY	SPRING LAKE, BOROUGH OF	423,808.00	318,098.86	1	542,000.00
NEW JERSEY	SEA BRIGBT, BOROUGH OF	561,828.25	0.00	7	561,828.25
NEW JERSEY	MONMOUTH BEACH, BOROUGH OF	486,407.55	14,224.41	9	500,631.96
NEW JERSEY	SEA BRIGBT, BOROUGH OF	333,508.67	332,726.13	30	463,332.02
NEW JERSEY	SEA BRIGBT, BOROUGH OF	407,268.28	42,585.80	4	449,854.08
NEW JERSEY	SEA BRIGBT, BOROUGH OF	415,833.37	0.00	2	415,833.37
NEW JERSEY	ARDEEN, TOWNSHIP OF	85,546.55	322,174.36	11	467,236.95
NEW JERSEY	SEA BRIGBT, BOROUGH OF	397,584.62	6,724.79	3	384,866.17
NEW JERSEY	MONMOUTH BEACH, BOROUGH OF	288,875.54	53,578.81	5	342,454.35
NEW JERSEY	LONG BRANCH, BOROUGH OF	270,653.24	65,471.29	4	336,124.53
NEW JERSEY	SEA BRIGBT, BOROUGH OF	223,812.02	99,488.29	3	323,300.31
NEW JERSEY	LONG BRANCH, CITY OF	341,429.06	68,277.33	5	389,706.39
NEW JERSEY	SEA BRIGBT, BOROUGH OF	241,429.06	0.00	4	275,807.72
NEW JERSEY	MONMOUTH BEACH, BOROUGH OF	262,818.51	0.00	3	268,892.19
NEW JERSEY	MONMOUTH BEACH, BOROUGH OF	221,305.78	28,408.22	2	249,714.00
NEW JERSEY	LITTLE SALVER, BOROUGH OF	152,895.75	66,158.56	2	219,054.31
NEW JERSEY	OCEANPORT, BOROUGH OF	209,804.12	48,588.88	2	258,393.00
NEW JERSEY	LONG BRANCH, CITY OF	247,622.08	0.00	4	247,622.08
NEW JERSEY	RAMSON, BOROUGH OF	181,582.07	65,018.34	6	246,600.41
NEW JERSEY	LITTLE SALVER, BOROUGH OF	186,848.90	69,008.86	2	255,857.76
NEW JERSEY	OCEANPORT, BOROUGH OF	162,894.95	78,025.81	4	240,920.76
NEW JERSEY	CODYS NECK, TOWNSHIP OF	238,375.43	29,898.18	3	268,273.61
NEW JERSEY	LONG BRANCH, CITY OF	197,248.18	19,267.75	4	216,515.93
NEW JERSEY	OCEAN, TOWNSHIP OF	143,772.64	65,018.83	7	208,791.47
NEW JERSEY	LONG BRANCH, CITY OF	238,345.08	0.00	4	238,345.08
NEW JERSEY	MONMOUTH BEACH, BOROUGH OF	188,133.15	48,818.18	3	236,951.33
NEW JERSEY	LONG BRANCH, CITY OF	234,138.44	0.00	2	234,138.44
NEW JERSEY	RAMSON, BOROUGH OF	178,878.58	38,724.78	4	217,603.36
NEW JERSEY	MONMOUTH BEACH, BOROUGH OF	201,188.12	1,623.18	3	202,811.30
NEW JERSEY	RAMSON, BOROUGH OF	204,368.24	0.00	3	204,368.24
NEW JERSEY	SPRING LAKE, BOROUGH OF	137,173.78	63,051.29	2	200,225.07

Average total paid = \$61,954

State Name	Community Name	Total Building Pages	Total Contents Pages	Total Paid	Average Pkg
NEW JERSEY	KENYON, BOROUGH OF	425,825.07	154,584.51	30.00	580,458.58
NEW JERSEY	ARDEEN, TOWNSHIP OF	85,546.55	322,174.36	11.00	467,236.95
NEW JERSEY	SEA BRIGBT, BOROUGH OF	520,388.87	332,726.13	30.00	381,512.02
NEW JERSEY	SEA BRIGBT, BOROUGH OF	549,508.76	38,440.54	30.00	188,711.38
NEW JERSEY	MONMOUTH BEACH, BOROUGH OF	486,407.55	14,224.41	9.00	350,631.96
NEW JERSEY	KENYON, BOROUGH OF	42,818.83	203,188.89	9.00	247,007.72
NEW JERSEY	HASLET, TOWNSHIP OF	117,493.75	30,008.80	9.00	147,502.55
NEW JERSEY	MONMOUTH BEACH, BOROUGH OF	187,818.27	0.00	8.00	187,818.27
NEW JERSEY	SEA BRIGBT, BOROUGH OF	41,812.09	14,224.38	8.00	49,036.47
NEW JERSEY	SEA BRIGBT, BOROUGH OF	561,828.25	0.00	7.00	561,828.25
NEW JERSEY	OCEAN, TOWNSHIP OF	143,772.64	65,018.83	7.00	208,791.47
NEW JERSEY	LONG BRANCH, BOROUGH OF	188,294.96	48,721.43	7.00	236,016.39
NEW JERSEY	MONMOUTH BEACH, BOROUGH OF	156,495.79	18,296.86	7.00	174,792.65
NEW JERSEY	LONG BRANCH, CITY OF	131,861.79	29,193.86	7.00	160,055.65
NEW JERSEY	OCEAN, TOWNSHIP OF	136,768.29	48,618.17	7.00	185,386.46
NEW JERSEY	MONMOUTH BEACH, BOROUGH OF	189,465.14	25,009.36	7.00	185,474.50
NEW JERSEY	RAMSON, BOROUGH OF	181,582.07	65,018.34	6.00	246,600.41
NEW JERSEY	NETFLETT, TOWNSHIP OF	183,888.90	83,726.87	6.00	267,615.77
NEW JERSEY	SEA BRIGBT, BOROUGH OF	158,234.59	36,837.58	6.00	195,072.17
NEW JERSEY	MONMOUTH BEACH, BOROUGH OF	147,857.91	0.00	6.00	147,857.91
NEW JERSEY	MONMOUTH BEACH, BOROUGH OF	122,876.02	0.00	6.00	122,876.02
NEW JERSEY	MONMOUTH BEACH, BOROUGH OF	122,771.13	17,554.89	6.00	140,326.02
NEW JERSEY	MONMOUTH BEACH, BOROUGH OF	42,123.28	35,027.23	6.00	77,150.51
NEW JERSEY	LONG BRANCH, CITY OF	37,968.83	38,338.28	6.00	76,307.11
NEW JERSEY	OCEANPORT, BOROUGH OF	64,881.27	17,941.89	6.00	82,823.16
NEW JERSEY	LONG BRANCH, CITY OF	65,844.48	3,138.90	6.00	68,983.38
NEW JERSEY	SEA BRIGBT, BOROUGH OF	37,309.22	18,181.87	6.00	55,491.09
NEW JERSEY	KENYON, BOROUGH OF	324,355.08	218,095.39	5.00	542,450.47
NEW JERSEY	MONMOUTH BEACH, BOROUGH OF	288,875.54	53,578.81	5.00	342,454.35
NEW JERSEY	LONG BRANCH, CITY OF	241,429.06	68,277.33	5.00	309,706.39
NEW JERSEY	OCEANPORT, BOROUGH OF	209,804.12	48,588.88	5.00	258,393.00
NEW JERSEY	MONMOUTH BEACH, BOROUGH OF	201,188.12	1,623.18	5.00	202,811.30
NEW JERSEY	SEA BRIGBT, BOROUGH OF	143,178.08	0.00	5.00	143,178.08
NEW JERSEY	OCEAN, TOWNSHIP OF	143,772.64	65,018.83	5.00	208,791.47
NEW JERSEY	LONG BRANCH, CITY OF	136,768.29	48,618.17	5.00	185,386.46
NEW JERSEY	MONMOUTH BEACH, BOROUGH OF	131,861.79	29,193.86	5.00	160,055.65
NEW JERSEY	LONG BRANCH, CITY OF	122,771.13	17,554.89	5.00	140,326.02
NEW JERSEY	SEA BRIGBT, BOROUGH OF	81,408.47	7,769.43	5.00	89,177.90
NEW JERSEY	MONMOUTH BEACH, BOROUGH OF	76,388.31	18,483.17	5.00	94,871.48

Average total losses = 2.81

### WHAT ARE THE ODDS OF BEING FLOODED?

The term "100-year flood" has caused much confusion for people not familiar with statistics. Another way to look at flood risk is to think of the odds that a 100-year flood will happen sometime during the life of a 30-year mortgage—a 26% chance for a structure located in the SFHA.

Chance of Flooding over a Period of Years

Time Period	10-year	25-year	50-year	100-year
1 year	10%	4%	2%	1%
10 years	65%	34%	18%	10%
20 years	88%	50%	33%	18%
30 years	96%	71%	45%	26%
50 years	99%	87%	64%	39%

Even these numbers do not convey the true flood risk because they focus on the larger, less frequent, floods. If a house is low enough, it may be subject to the 10- or 25-year flood. During a 30-year mortgage, it may have a 26% chance of being hit by the 100-year flood, but the odds are 96% (nearly guaranteed) that it will be hit by a 10-year flood. Compare those odds to the only 1-2% chance that the house will catch fire during the same 30-year mortgage.



## Natural Hazards and Monmouth County - What is at stake?

### Flooding

- The assessed value alone of property in Monmouth County's 100-year floodplain is roughly **\$3 billion**.



## Natural Hazards and Monmouth County - What is at stake?

### Wind

- Monmouth County is located in a climate region that is highly susceptible to numerous types of extreme wind events including:
  - severe thunderstorms,
  - hurricanes,
  - tropical storms,
  - nor'easters, and
  - severe winter storms.

## Natural Hazards and Monmouth County - What is at stake?

### Wind

- 267 significant wind events for Monmouth County between October 1968 and December 2011.
- These events have resulted in recorded estimates of 7 deaths, 98 injuries and more than \$34 million in property damage.



## Natural Hazards and Monmouth County - What is at stake?

### Tornados

- NCDC and SHELUDS report 9 tornado events in Monmouth County between August 1952 and December 2011.
- These events have resulted in no recorded deaths or injuries but have caused \$1.5 million in property damage with the most severe being an F2 that struck northern Manalapan and extreme southwest Marlboro Townships in May 2001.

## Natural Hazards and Monmouth County - What is at stake?

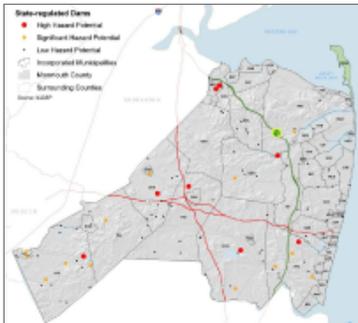
### Dam Failure

- **High hazard** - failure may cause probably loss of life or extensive property damage
- **Significant hazard** – failure may cause significant damage to property, but loss of life not anticipated
- **Low hazard** – failure may cause loss of the dam itself, but property damage and loss of life not anticipated

## Natural Hazards and Monmouth County - What is at stake?

### Dam Failure

- 106 dams
- 9 high hazard<sup>1</sup>
- 3 significant hazard
- 84 low hazard



<sup>1</sup> of which 3 are major dams

## Natural Hazards and Monmouth County - What is at stake?

### Dam Failure

- Overall probabilities are relatively low due to routine inspection, repair & maintenance
- However – they do happen



**DAM BREACH**  
A portion of Millard Avenue, in the River Place section of Middlesex collapsed from the weight of water that came through with when the Wreck Pond dam burst during Hurricane Irene. Credit: Monmouth County

## Natural Hazards and Monmouth County - What is at stake?

### Dam Failure

- **October 2005 – Heavy rains, minor dam failures**
  - Dams failed at Spring Lake, Mill Pond, Deal Lake, Wreck Pond
  - >1,000 people evacuated
  - States of emergency declared
  - In Wall Township, the cost of repairing the Wreck Pond Dam alone was estimated at \$4.2 million.

## Natural Hazards and Monmouth County - What is at stake?

### Storm Surge

- Storm surge during events including:
  - hurricanes
  - tropical storms
  - nor'easters
- Likely affects of climate change
  - more frequent events
  - larger area of impact (higher water levels)
- New development → more exposure (buildings, people, infrastructure)



## Natural Hazards and Monmouth County - What is at stake?

### Storm Surge

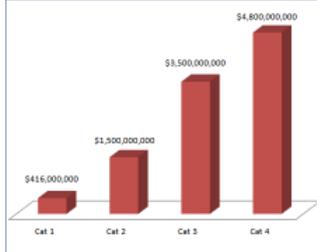
- "Ash Wednesday Storm" 1962 – through 5 high tides!
- 1992 Nor'easter
- February 2006 - \$900,000 in damages in Monmouth County (as recorded by NOAA NCDC)
- Irene
- ....and many more....



## Natural Hazards and Monmouth County - What is at stake?

### Storm Surge

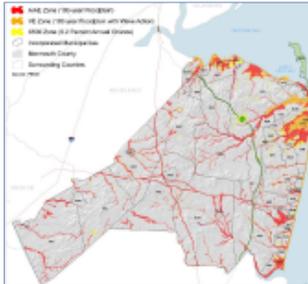
- HAZUS estimated potential losses from Category 1, 2, 3 and 4 storm surge events – Monmouth County



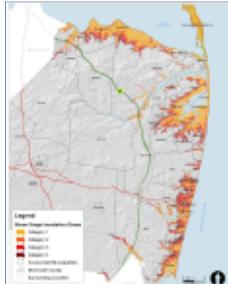
Storm Category	Estimated Potential Losses
Cat 1	\$415,000,000
Cat 2	\$1,500,000,000
Cat 3	\$3,500,000,000
Cat 4	\$4,800,000,000

## Natural Hazards and Monmouth County - What is at stake?

### Flooding



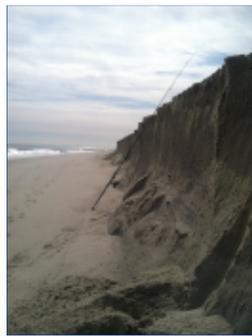
### Storm Surge



## Natural Hazards and Monmouth County - What is at stake?

### Coastal Erosion

- "Ash Wednesday Storm" 1962
- 1992 Nor'easter
- ..and many more...

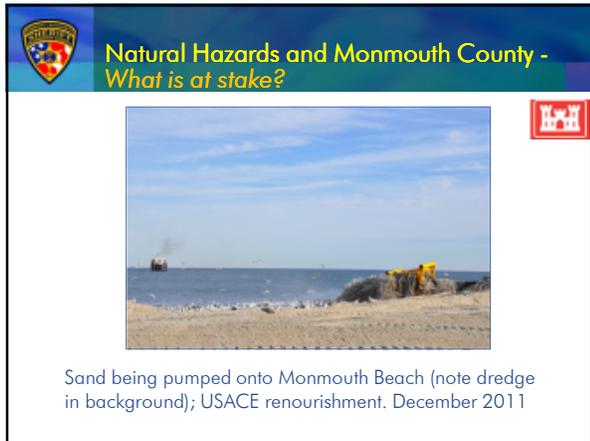
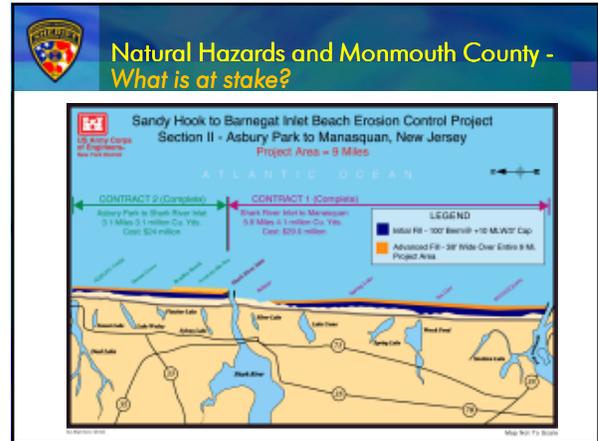
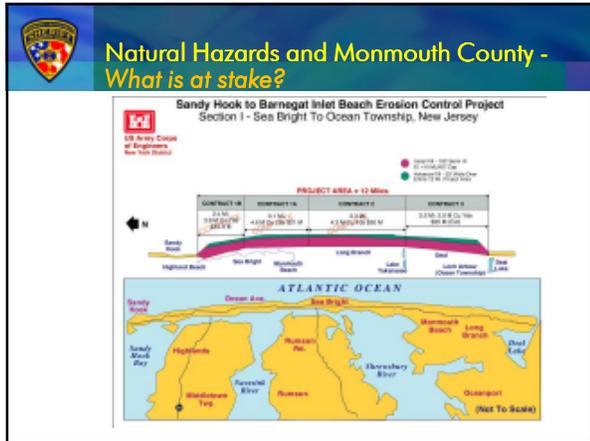
## Natural Hazards and Monmouth County - What is at stake?

### Coastal Erosion

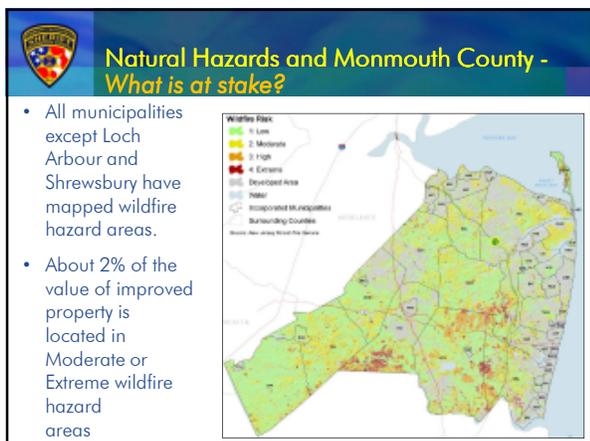
#### USACE Project - Sandy Hook to Barnegat Inlet, NJ

- Covers 21 miles of shoreline
- Largest beach nourishment project ever undertaken by the USACE
- Largest beachfill project, in terms of volume, in the world.
- The highly populated communities from the Town of Sea Bright to the Manasquan Inlet in Monmouth County, continually experience serious beach erosion. In 1962, the Ash Wednesday Storm caused \$56 million in damages (1992 price level).





- ### Natural Hazards and Monmouth County - What is at stake?
- #### Wildfires
- According to New Jersey Forest Fire Service records, Monmouth County experienced 512 wildfire incidents that burned 353 acres between 1993 and 2003.
  - Average of 51 wildfire events per year
    - Average of about 0.7 acres each or 35 acres per year
- 



- ### Natural Hazards and Monmouth County - What is at stake?
- #### Notable Events
- Howell, 1977**
- 300 acres
  - Yellowbrook Rd./Rte. 33
- Port Monmouth, 2002**
- 200 acres
  - Main St./Broadway/Park Ave.
-

**Incentives to Participate**  
*Benefits of Participating*

- **Goal:**
  - More sustainable and disaster-resistant communities
  - Implement projects that will gradually, but steadily, lessen the impacts associated with hazard events
  - Disaster → Event

**Incentives to Participate**  
*Programs that can be Accessed by Having an Approved Plan*

- Programs and Federal Share
  - ◆ HMGP 75%
  - ◆ PDM 75%
  - ◆ FMA 75%
  - ◆ RFC 100%
  - ◆ SRL 90%

**Incentives to Participate**  
*Typically Eligible Project Types*

Elevation of Structures

**Incentives to Participate**  
*Typically Eligible Project Types*

Elevation of Structures

**Incentives to Participate**  
*Typically Eligible Project Types*

Property Acquisitions

Elevation of Utilities

**Incentives to Participate**  
*Typically Eligible Project Types*

Wind Retrofits – Storm Shutters

## Incentives to Participate Typically Eligible Project Types

Minor Flood Reduction

FEMA 361 Safe Rooms

Soil Stabilization

## Incentives to Participate State Plan Goals, Ranking System

[www.state.nj.us/njoem/programs/mitigation\\_plan2012.html](http://www.state.nj.us/njoem/programs/mitigation_plan2012.html)

### 6.2.2 State Hazard Mitigation Goals and Objectives

The State embraces five goals and objectives and the Repetitive Loss strategy as stated below:

- To protect life through:**
  - Improve warning and emergency communications systems
  - Effectively address hazard mitigation issues, laws and regulations
  - Reduce the impacts of hazards on vulnerable populations
  - Strengthen State and local building code enforcement
- To protect property through:**
  - Protect critical State and non-State owned facilities and assets
  - Reduce repetitive losses on specifically vulnerable facilities
  - Implement hazard mitigation policies to protect the environment
- To increase public preparedness through:**
  - Improve public awareness of natural hazards and the risks they pose
  - Improve public information dissemination and improve and increase accessibility to those resources
  - Enhance community outreach and training emergency responders
- Develop and maintain an understanding of risks from natural hazards through:**
  - Review and incorporate hazard information developed at the local level into the Plan
  - Increase development of local mitigation planning
  - Incorporate new FEMA guidance, rules and regulations into the Plan
  - Update the Plan from lessons learned on the vulnerability
- Enhance capabilities to enable New Jersey to be vulnerable to hazards through:**
  - Mobilize the progress of on-going mitigation activities by state agencies
  - Provide technical information on resources for mitigation planning and acts
  - Encourage the formation of partnerships to leverage and share mitigation resources
  - Ensure continuity of critical operations of government and commerce

Adopted April 2011 and updated November 2011 Mitigation Strategy Section 5 Page 7 of 74  
Hazard mitigation is an important action to reduce or eliminate the long-term risk to life and property from hazards.

STATE OF NEW JERSEY HAZARD MITIGATION PLAN 2011

In addition to the stated mitigation goals and incorporated throughout the strategy to accomplish the State goals, New Jersey will take a three prong approach:

- Recognize flooding as the major disaster threat facing the state and seek acquisition between a voluntary seller and a public agency as the primary means to accomplish all of the goals and objectives with additional Repetitive Loss Strategy information below.
- Offer, as a secondary means of accomplishing the state goals, assistance in the elevation of homes when other acquisition is not an option.
- Work with both county and municipal governments that have an approved local mitigation plan and those which state are seeking completion to develop grants and technical projects to address the impacts of all natural disasters, not limited to flooding alone.

### HAZARD MITIGATION PLAN 2011

Figure 6.4.11 Sample New Jersey State Mitigation Project Priority Scale Table

General Application Information	POINTS	SCORE
Is this project geographically identified in the FEMA Hazard Plan?	10	
200 - Is this a planned type of project identified in the application plan?	20	
200 - Is the total size (FEMA grant approved) in the application for (RIFP)?	10	
Is the project in the identified vulnerable area by (RIFP)?	20	
Is the project in a FEMA community?	20	
Specific Application Information		
Is the project a mitigation measure that directly refers to overall plan for development and/or hazard mitigation in the disaster area, community or State?	20	
Is the measure that is not taken, will have a detrimental impact on the applicant, such as potential loss of life, loss of essential services, damage to critical facilities, or economic hardship in the community or State?	20	
Does the mitigation measure have the potential potential impact reducing further disaster losses?	20	
Has the mitigation measure been designed according to multiple objectives including damage reduction, environmental enhancement and economic recovery?	20	
Environmental		
Is the project eligible for a Competitive Response (CRP)?	1	
Is the project an All Hazards Alternative Response (AR) required?	1	
Is the project a FEMA/State/Local (FEMA/STL) required?	1	
Does a FEMA/STL study exist along a specific project line? These studies include:	1	
Does a FEMA/STL study exist for the project?	1	
Is a FEMA/STL study required for the project?	1	
Has an engineering study been provided, or will be a study of 1:20?	20	
State Strategy		
Is the structure in the Severe Repetitive Loss area?	10	
Is the structure on the Repetitive Loss list?	20	
Is the structure within a floodplain?	1	
Is the project on a floodplain?	10	
Is the project on a floodplain?	10	
Is the project on a floodplain?	1	
Is the project a FEMA/STL project?	1	
Is the project a FEMA/STL project?	1	
Is the project a FEMA/STL project?	1	
<b>Total Points Awarded</b>		

Final adopted in April 2011. This update to the 2007 Hazard Mitigation Plan Training Series, Strategy 17 of 17.

## Viable Projects for Your Municipality Based On Past Experiences

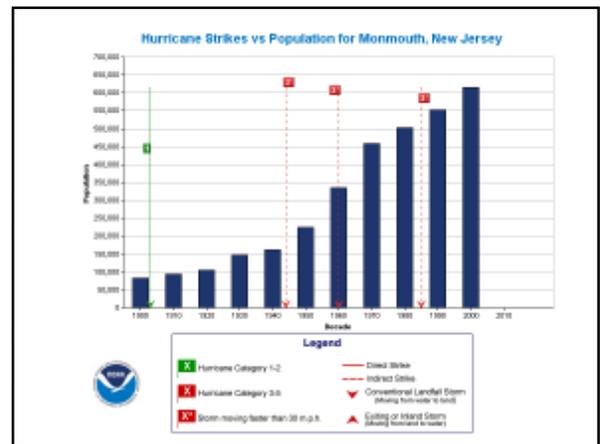
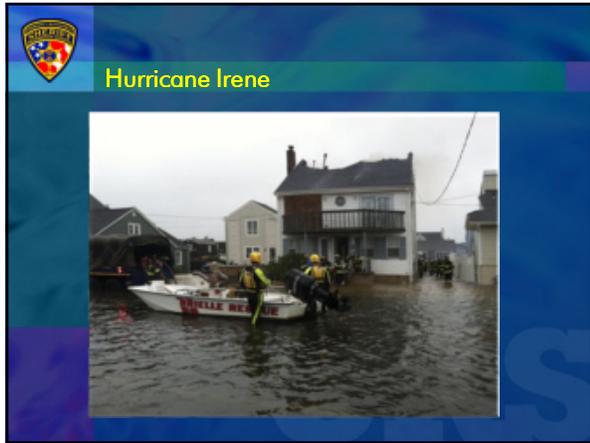
### What are the problems?

**Group discussion:**  
**What happened during Hurricane Irene? during other events?**

- What happened? Were these things expected? In expected locations? Were any impacts unanticipated, or with unanticipated consequences?
- Was the problem simply repaired to pre-disaster conditions, or was it mitigated?
- Did Irene highlight any areas in need of immediate attention (mitigation)?

## Hurricane Irene





**Viability Projects for Your Municipality Based On Past Experiences**  
*What are the problems?*

**Group discussion:**  
**What happened during Hurricane Irene? during other events?**

- What happened? Were these things expected? In expected locations? Were any impacts unanticipated, or with unanticipated consequences?
- Was the problem simply repaired to pre-disaster conditions, or was it mitigated?
- Did Irene highlight any areas in need of immediate attention (mitigation)?



**Viability Projects for Your Municipality Based On Past Experiences**  
*What are the solutions?*

**Group discussion:**  
**What are some possible solutions to the problems previously discussed?**



**Viability Projects for Your Municipality Based On Past Experiences**  
*What are the solutions?*

**General types of actions....**

- Dedication of currently undeveloped hazard area lands as open space
- Acquisition of hazardprone buildings
- Elevation of floodprone buildings
- Wet/dry floodproofing
- Land use controls
- Habitat restoration and enhancement (beaches, dunes, wetlands, streams, riparian buffers)
- Drainage system improvements
- Road raisings
- Erosion management (dune plantings, rip rap protection, bulkheading)
- Development restrictions for high hazard areas
- More rational development and redevelopment in the future
- More restrictive construction standards

**Viability Projects for Your Municipality Based On Past Experiences**  
*What are the solutions?*

**Keep in mind....**

- Hazards are not necessarily static
- Their boundaries are not guaranteed; their degree of severity can change over time (i.e., flooding – climate change, development pressures)



**Viability Projects for Your Municipality Based On Past Experiences**  
*What are the solutions?*

**Group discussion:**  
**What are some possible solutions to the problems previously discussed?**



**Food for Thought**  
*What are other communities doing? IN MONMOUTH COUNTY*

**Borough of Sea Bright: Ongoing Mitigation Efforts**

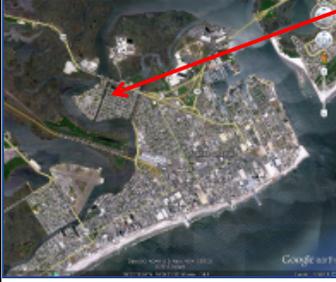
- Borough in NFIP since 1976
- 1,154 NFIP policies, \$15M losses
- 140 repetitive loss properties contributing \$9.5M in losses
- Sandy Hook – Barnegat Inlet BEC Project provides oceanfront protection
- Downtown area still at risk of flooding from Shrewsbury River





- US Army Corps of Engineers Project: plan formulation ongoing
- Structural solutions viable but not locally favored
- Focus on multiple structure retrofits
- Meanwhile: at least one residence has been the subject of a successful FEMA grant application for elevation since 2009

**Food for Thought**  
 What are other communities doing?  
**OTHER FEMA REGION 2 COASTAL AREAS**



**Atlantic City – Venice Park Bulkhead Project**

- City participating in NFIP since 1971
- 8,234 NFIP policies, \$16.4M losses<sup>1</sup>
- 272 repetitive loss properties contributing \$7.2M in losses<sup>1</sup>
- CRS Community (Class 9, 5% discount on flood insurance premiums)
- Venice Park – repetitive loss area
  - Island contains 1 school + 43 RLPs
  - Problems: erosion and tidal flooding
  - Bulkheads to protect clusters of properties with high average annual losses (143 protected)
  - CRDA funding

<sup>1</sup> year 2005

**Food for Thought**  
 What are other communities doing?  
**OTHER FEMA REGION 2 COASTAL AREAS**

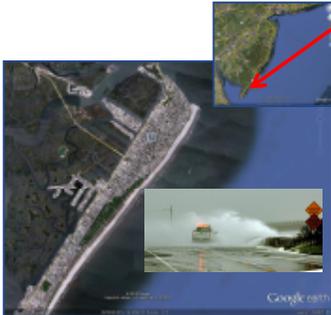


**Freeport, NY – Structure Elevations & Road Raisings**

- Long Island coastal back bay community
- 2,631 NFIP policies, \$10.1M losses<sup>1</sup>
- 285 repetitive loss properties contributing \$7.7M in losses<sup>1</sup>
- CRS Community (Class 8, 10% discount on flood insurance premiums)
- Various FEMA programs - Structure elevations and road raisings

<sup>1</sup> year 2005

**Food for Thought**  
 What are other communities doing?  
**OTHER FEMA REGION 2 COASTAL AREAS**



**Avalon, NJ – Backflow Valves, Pump Stations, Bulkhead Improvements**

- Barrier island community
- Resident population is about 2,000 but swells to around 40,000 in summer
- 4,845 NFIP policies, \$7.7M losses<sup>1</sup>
- 141 repetitive loss properties contributing \$5.4M in losses<sup>1</sup>
- CRS Community (Class 6, 20% discount on flood insurance premiums)
- Coastal and bay flooding
- Various FEMA programs and local funds for backflow valves, pump stations, and bulkhead improvements as well as an elevated dune system

<sup>1</sup> year 2006

**Closing Thoughts**

- Hazard mitigation is....a big commitment
  - people
  - time
  - money
- The benefits far outweigh the costs of inaction
- Will we mitigate everywhere in every municipality from every hazard?
  - No, not right away. Probably not ever. But **we are challenged to take the sometimes difficult steps that lead in the right direction.**

**Closing Thoughts**

“You can do anything if you work at it *a little at a time.*”

-Nicholas A. Curto, Sr.

**Contact Information**

<b>MCOEM</b>	Michael Oppegaard moppegaard@mcsonj.org, 732-431-7400
	Margaret Murnane Brooks mmurnane@mcsonj.org, 732-431-7400
<b>URS</b>	Anna Foley anna.foley@urs.com, 973-883-8562
	Richard Franks richard.a.franks@urs.com, 973-883-8559

## **1 – Steering Committee Meeting – January 7, 2013**

- Sign-in sheet

**HMGP – LOI Committee**  
**Monday, January 07, 2013**  
**Sign-In Sheet**

Name	Department	E-Mail	Phone #	Fax #
Debra Reynolds	Comm. Dev.	cdreynolds@monmouthplanning.com	732-431-7470	732-308-2995
MARLAIN WALKER	FEMA COAT PARTNERS	mariana@lecknerconsulting.com	215-322-7279	
Sharon Rafter	Mon. City Community Development	gra.sterco.monmouth.nj.us	732-431-7460	732-308-2995
Inkyung Englehart	Engineering	inkyung.Englehart@turner-shall.com	732.431.7760	732.431.7765
TURNER SHALL	ENGINEERING	TURNER, SHALL @ CO. MONMOUTH, N.J. U.S	732 431 7760	11
Joseph Santora	Highway	Joseph.Santora@co.monmouth.nj.us	732-431-6550	431-7833
Jessica Kubida	ENGINEERING	Jessica.Kubida@co.monmouth.nj.us	732 577 6775	—
Joal Corinn	Health	joal@co.monmouth.nj.us	732 431-7450	
Amy Fitzgerald	Mon County	amy.fitzgerald@co.monmouth.nj.us	732-431-7478	
JOHN CINTO	MONMOUTH COUNTY	JOHN.CINTO@CO.MONMOUTH.NJ.US	732-431-7470	
Michael Foley	FEMA	Michael.Foley@dhs.gov	212-680-3834	
Jenny Covertello	M R R S A	M R R S A N J GOV @ AOL.COM	732-431-8175	
Linda Brennan	Planning	lbrennan@monmouthplanning.com	732-431-7460	732-404-7540





## **5 – FEMA Mitigation Strategy Workshops, April 2-5, 2013**

- Attendees and notes, Bayshore Communities - April 2, 2013
- Attendees and notes, Western Communities – April 3, 2013
- Attendees and notes, Mid-Monmouth Communities – April 4, 2013
- Attendees and notes, Southern Communities – April 5, 2013
- FEMA PowerPoint Presentation (same for each date)

## BAYSHORE REGION – 4/2/13

### URS Scope of Work Mod1

#### Notetaking at FEMA-led Mitigation Strategy Workshops

- Bayshore Region – Tuesday, April 2, 2013
- Western Monmouth Region – Wednesday, April 3, 2013
- Mid Monmouth Region – Thursday, April 4, 2013
- South Monmouth Region – Friday, April 5, 2013

Scheduled for 9 am – 1:30 pm at MCOEM, 300 Halls Mill Road, Freehold

BAYSHORE REGION	WESTERN MONMOUTH REGION	MID MONMOUTH REGION	SOUTH MONMOUTH REGION
4/2/13	4/3/13	4/4/13	4/5/13
ABERDEEN	ALLENTOWN	ALLENHURST	ASBURY PARK
ATL.HIGHLANDS	COLTS NECK	DEAL	AVON
HAZLET	ENGLISHTOWN	EATONTOWN	BELMAR
HIGHLANDS	FARMINGDALE	FAIR HAVEN	BRADLEY BEACH
HOLMDEL	FREEHOLD BORO	LITTLE SILVER	BRIELLE
KEANSBURG	FREEHOLD TWP.	LOCH ARBOR	INTERLAKEN
KEYPORT	HOWELL	LONG BRANCH	LAKE COMO
MATAWAN	MANALAPAN	MONMOUTH BEACH	MANASQUAN
MIDDLETOWN	MARLBORO	OCEANPORT	NEPTUNE
SEA BRIGHT	MILLSTONE	RED BANK	NEPTUNE CITY
UNION BEACH	ROOSEVELT	RUMSON	OCEAN TWP.
BROOKDALE COLLEGE	U FREEHOLD	SHREWSBURY BORO	SEA GIRT
		SHREWSBURY TWP.	SPRING LAKE
		WEST LONG BRANCH	SPRING LAKE HTS.
		MONMOUTH UNIVERSITY	TINTON FALLS
			WALL TWP

## BAYSHORE REGION – 4/2/13

BAYSHORE REGION INVITEES	INVITEES THAT WERE REPRESENTED	BAYSHORE REGION WORKSHOP ATTENDEES
ABERDEEN	x	OEM Coordinator and Chief of Police
ATL.HIGHLANDS		
HAZLET		
HIGHLANDS	x	Dave Parker, Emergency Management Coordinator
HOLMDEL		
KEANSBURG		
KEYPORT		
MATAWAN	x	Sgt. Tom Falco, Emergency Management Coordinator
MIDDLETOWN	x	Charles Rogers, Middletown Emergency Management Coordinator
SEA BRIGHT	x	Read Murphy, Emergency Management Coordinator and Councilman
UNION BEACH	x	?Mike?, Title
BROOKDALE COLLEGE		
FEMA	x	Cathleen Carlisle, Region 2 Audrey Massa, Region 2 Mickey Stroup, DAE Doug McDonald, DAE Cheryl Copeland, DAE Shubha Shrivastava, Contractor, URS
MONMOUTH COUNTY	x	Anna Foley, Contractor, URS

- Note: See attached sign in sheet for detailed contact information

Others in attendance:

Representative from ***Birdsall Services Group, John Miele***, who introduced himself as someone who provides municipal engineering services in south Jersey, but who is attending the workshop in place of Carolyn Weaver and Jim Criolo who work with Monmouth municipalities as far as municipal engineering, floodplain administration, and grants. Though ***he was not specific to which municipalities their firm was representing.***



## BAYSHORE REGION – 4/2/13

### Municipal Feedback

- **Sea Bright** is adopting V-zone + 2 feet of freeboard design standards.
- **Sea Bright** Zoning Officer is the Floodplain Administrator.
- **Sea Bright** has concerns about the new ABFEs. Murphy said the new maps show A zone coastal and V zone backbay; however, the buildings that were destroyed by waves are primarily coastal locations, not backbay.
- **Highlands** nodded regarding Carlisle question of whether the planned annual reviews had taken place during the plan maintenance phase. Lack of response from others seemed to imply that they hadn't.
- **Matawan** submitted two LOIs under Sandy: one for a roadway elevation, and another to install auxiliary power for their municipal complex.
- Several times over the course of the workshop municipalities expressed concerns related to Sandy recovery and rebuilding. **Sea Bright** and **Union Beach**, in particular, expressed concerns with regard to how to mapping trickles down to homeowners, and the schedule. Sounded like homeowners are financially tapped, and putting off rebuilding to the ABFEs until the Preliminaries are released in the hopes that the ABFEs were too aggressive and that the new maps will ultimately show lower elevations. This represents a cost savings to homeowners, but it also leaves them in limbo for several more months. This spurred a conversation on ICC monies, and possible HMGP monies, community block grants, Green Acres/Blue Acres - all of which are good but people don't know if they should take a chance and wait, or potentially dig an unnecessary financial hole in the name of starting now. Most in the room seemed to nod in agreements at statements from various companies (i.e., builders) that are issuing false information about FEMA grant and insurance programs, and also implying that homeowners can apply all on their own (as opposed to the municipality needing to be the applicant) and it's creating a lot of confusion. Also concerns about grandfathering, impacts on flood insurance rates, etc.
- **Union Beach's** concern regarding ACOE project. It has been unfunded for about 10 years. Initially, it was expected to cost about \$99 million; the locals could have absorbed the cost but it was unfunded in presidential budgets. Today, the cost would be about double that, a local share which the town can no longer afford. If the project had been funded and implemented pre-Sandy, he estimated that about 80% of the houses that were destroyed would still be standing today. The



town can't seem to get an answer as to whether this project may move forward again, or how the homeowners will be impacted (i.e., if the town tells everyone to build to ABFE plus a couple of feet of freeboard now, that costs people a lot of money that most don't have, and if in a couple of years the ACOE is going to come in and implement a project that makes all of that unnecessary, people's lives have really been upended for no reason. **Middletown** expressed similar concerns. Both made the case that it would be great if FEMA could step in and fund the Federal share for projects on the shelf like this one where there was a local match at one time.

- **Union Beach** was also concerned about how grant requirements to use prevailing wages really skyrockets project costs. He had one homeowner who funded an elevation on their own at a cost of \$47,000; whereas another nearly identical home that was FEMA-funded was raised identically by a contractor at a cost of \$247,000.
- **Union Beach** is not pursuing acquisitions. Recommending that people interested in selling work with a developer. They are a 1.8 square mile town, 1.7 square miles of which were inundated during Sandy. Acquisitions result in a loss of ratables. They are also dealing with issues regarding homes that have been destroyed where the owners only want to pay taxes now on the land. Loss of revenue. **Highlands** also feels similarly about acquisitions.
- **Union Beach** "Lots of carrots out there.".....**Middletown**: "Who do you believe? And what do you tell your people?"
- **Union Beach** and some others understand that the State will not fund 'checkerboard' type acquisitions; however, these are the only types in many cases that are suitable for the community. Particularly those municipalities that are small geographically.
- **Union Beach** prepared an acquisition application two years ago for 8 homes. The town covered the costs associated with project application development, BCAs, etc. Homeowners had the money to cover the match. But BCA was just under 1, ultimately. So FEMA did not fund. Due to Sandy, 4 of those 8 homes have been destroyed.
- **Highlands** said 7 projects post-Irene were denied due to State priorities for focusing Irene money in areas like Wayne. FEMA stressed that these 7 should be in their plan update.



## BAYSHORE REGION – 4/2/13

- **Union Beach** would like to relocate one of their firehouses, but at 1.8 square miles total, 98% developed, and 1.7 square miles flooded during Sandy, they don't have any place to relocate it to. What is the mitigation solution? (left open ended; some even talked about problems with elevating/flood proofing building when access roads are flooded).
- **Sea Bright** said that during Sandy they had 30' waves on top of storm surge; how did the ABFEs put the backbay areas into a V-zone and not the coastal areas? During Sandy, the firehouse was hit, as were roads to/from. Similar to Union Beach: what is the mitigation solution? Left as a rhetorical question.
- **Municipalities** – OEM coordinators have a lot of trouble getting anyone in other community departments involved; the 'black hole', even more so now post-Sandy. They don't have enough staff, the department budgets are low, many staff members are part time and filling multiple positions, they have a high turnover in positions (particularly leadership, i.e. mayors) – mitigation planning is falling on OEM coordinator shoulders despite best efforts to engage rest of the local government.
- **Sea Bright** Mayor intends to update the comprehensive plan to include a hazard mitigation element.
- **Sea Bright** mentioned that there is a report done recently by Stockton College which shows losses and amount of beach before/after Sandy.
- **Many communities** expressed concerns over the nature of the FEMA response where PA teams, in particular, are rotating. High staff turnover, and poor transfer of information.
- **Sea Bright** was not happy with Dewberry. The town had estimated substantial damage for about 50 buildings. Dewberry used a method which showed only 3 were substantially damaged. Birdsall representative and FEMA reminded attendees that only the local floodplain administrator is authorized to declare something substantially damaged, so that person can override consultant estimate. (If not a substantially damaged policyholder, then homeowner doesn't qualify for ICC monies).

### Key FEMA Points

- Stress on community ownership and local participation; local champion needed to take the actions forward through implementation and monitoring.



- The plan should be updated and modified constantly.
- Carlisle mentioned that FEMA Mitigation Assessment Teams are preparing reports and/or advisory sheets that may be useful for municipalities; contact FEMA for more information.
- Preliminary DFIRMs are expected approximately in September.
- Very important for the jurisdictional representatives to keep all their departments aware of the process, the plan, and the need for keeping it current.
- New Handbook is still forthcoming
- More developed actions should be in the update (if that's fewer, then fine; but they need to be moving away from broad brush statements and studies, and toward concrete actions to reduce risks).
- Activities that aren't true mitigation can go in, though they won't 'count' toward the mitigation action requirement, and must be labeled as preparedness, response, etc.
- In the new guidance, generators are fundable mitigation actions for critical facilities (some confusion though as to whether it is only as a component of a larger project to build a new critical facility, or if it also applies to discrete projects for auxiliary power for existing critical facilities).
- State will be given Rep Loss Data for Sandy from FEMA by the end of May.
- FEMA obligates HMGP monies to the State; the State is in charge of where that money is obligated and how project types or certain areas are prioritized.
- If damaged buildings are being sold to developers for the purpose of building bigger, better buildings – that's putting more at risk. How is that risk going to be mitigated?
- Public education is fine as an action item for the community's 'lesser hazards' (to meet the criteria of action items for each hazard)

9:00 am to 1:45 pm

## WESTERN REGION – 4/3/13

### URS Scope of Work Mod1

#### Notetaking at FEMA-led Mitigation Strategy Workshops

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BROOKDALE COLLEGE	U FREEHOLD	SHREWSBURY BORO	SEA GIRT
		SHREWSBURY TWP.	SPRING LAKE
		WEST LONG BRANCH	SPRING LAKE HTS.
		MONMOUTH UNIVERSITY	TINTON FALLS
			WALL TWP

## WESTERN REGION – 4/3/13

WESTERN REGION INVITEES	INVITEES THAT WERE REPRESENTED	WESTERN REGION WORKSHOP ATTENDEES
ALLENTOWN		
COLTS NECK		
ENGLISHTOWN	x	OEM Coordinator/Police Lt
FARMINGDALE		
FREEHOLD BORO		
FREEHOLD TWP		
HOWELL	x	Deputy Mayor/OEM Township Engineer Deputy OEM Coordinator Engineering Coordinator
MANALAPAN	x	Engineering Consultant
MARLBORO	x	Deputy OEM Coordinator
MILLSTONE		
ROOSEVELT		
U FREEHOLD		
FEMA	x	Cathleen Carlisle, Region 2 Sara Margolis, Region 2 Mickey Stroup, DAE Doug McDonald, DAE Cheryl Copeland, DAE
MONMOUTH COUNTY	x	Robert Swannack Kevin Stout Richard Franks, Contractor, URS

- Note: See attached sign in sheet for detailed contact information

### Municipal Feedback and Issues

- Half of the attendees were involved with the previous plan.
- Englishtown:** small municipality entirely surrounded by Manalapan, modest flooding risk, the only impact of Sandy was one tree down which affected power to two houses, although power to the whole town was affected by the disruption to the wider power system outside the Borough. Stream clearance was the only action they submitted in the original plan.
- Manalapan:** had one action in the initial plan which they have completed – dredging of Holiday Lake, which was locally funded but jointly managed with the Monmouth County Mosquito Commission.



- **Howell:** their actions in the initial plan included addressing repetitive flood properties, shelters and generators. Their representatives looked for confirmation that continual review and strengthening of existing ordinances counts as mitigation. FEMA concurred.
- **Marlboro:** their actions in the initial plan included four stream clearance (one of which is the subject of a post-Sandy LOI) plus outreach and warning systems.
- **Howell:** the repetitive flood properties action in the current plan refers to an area which floods frequently (including building inundations) but is not mapped as a flood hazard area on the FIRM. Property owners in this area apparently do not have flood insurance and were unaware that they were eligible for it despite not being in SFHA. Town should take steps to ensure that these property owners get NFIP coverage ASAP, especially since their premiums should be relatively low if they are not currently in the SFHA. The sooner these people have flood insurance the sooner the level of risk will become apparent as flood losses/NFIP claims are recorded, documented as Rep Loss, etc. Although the initial plan includes an action to address this issue, it should be much more specific (location/street names/number and type of structures), and it was recommended that they could consider actions in two phases:
  1. H&H study to establish the actual risk/frequency of flooding
  2. Acquisition program supported by outcome of study.
- **Manalapan:** representative wanted confirmation that detailed Rep Loss property information would be made available to individual municipalities, to assist in developing detailed actions (subject to the 1974 Privacy Act).
- **Marlboro:** getting permits is a major obstacle for stream clearance. The riverine flooding experienced in the town is virtually all nuisance flooding – mainly back yards, very little building or even road inundation.
- **Englishtown;** their only current action is listed as “routine stream maintenance, but for FEMA eligibility it should be presented as “stream/channel improvements” or similar, since they are not talking about an annual activity, more like something that has to be done once every 10 years or so. Since watercourses in Englishtown flow from/to Manalapan, there should be close cooperation/coordination (develop joint actions?) between the two municipalities.
- **Howell** representatives mentioned loss of power as major impact in many different storm events, and that municipalities do not have any authority over private utility companies with regard to mitigation actions. Anecdotal evidence



suggests that NJ power infrastructure is among the oldest in the nation. FEMA suggested that communities continue to document all power outage issues and make sure state authorities are aware of problems.

- **Monmouth County** has reached out to utility companies and will continue targeted outreach in this direction.
- **Howell:** representatives reported that overall they have had a negative experience of the mitigation process, since the likelihood of actually receiving any grant funding appears remote. It was expected that post-Sandy funding would be almost entirely directed to shore communities.
- **Manalapan:** property acquisition raises issue of what happens to existing mortgages on affected properties.
- **Howell:** Property acquisitions would likely be the responsibility of the Town Manager and could be completed in a year if all went well.
- **Marlboro:** lead agency for stream clearance/improvement would likely be Engineering with support from Public Works. Could be done under maintenance program and possibly utilize open space account.
- **Howell:** Representatives asked about criteria for ultimate grant award: For example, it was felt that Howell's project to acquire a dozen or so properties would be well down the pecking order for funding when compared to (say) the construction of a sea wall providing protection to several hundred properties, or the elevation/acquisition of a much larger number of properties in a different town. FEMA staff were able to provide a number of reasons that the Howell plan could still be prioritized for grant funding:
  1. The Howell plan features acquisition of a group of adjacent structures, which may provide better opportunity for open space preservation than a "checkerboard" pattern often arising from larger buyout programs.
  2. If Howell can get all the affected property owners on board quickly (apparently not an issue) the project may be regarded as more "shovel-ready", especially versus larger programs requiring buy-in from a greater number of owners.
  3. Projects such as sea walls and other large structures are unlikely to be funded by FEMA grant; more likely other Federal agency such as US Army Corps of Engineers and thus not in direct competition.



## WESTERN REGION – 4/3/13

4. Smaller project such as Howell's more likely to be completed in short time frame thus could be attractive to FEMA since they are keen to demonstrate mitigation success stories
5. The properties covered by the Howell project are all primary residences, which may not be the case with larger programs in shore communities.

### Key FEMA Points

- Cathleen Carlisle: the main point of the workshop is so that participants understand the key elements of the plan and how they fit together/flow from one to the other. She emphasized in particular that the link from risk assessment to actions should be clear.
- Cheryl Copeland recommended that municipalities should consult the plan "at least once a year".
- Mickey Stroup emphasized that each participating municipality should meet the requirements for approval on an individual basis: when she reviews a multi-jurisdictional plan she completes a separate crosswalk/plan review tool for each municipality. Each municipality should have a copy of the review tool to refer to.
- Generators are eligible for funding as mitigation options if they are for critical facilities, but municipal strategies must include other actions.
- Preparedness and response (e.g. emergency vehicles and warning systems) are not eligible for HMGP funds.
- Routine maintenance activities are also not considered mitigation projects.
- Cathleen described the Action Worksheet (distributed in blank form and as completed for three examples) as a way of including all key strategy elements (risk – action – evaluation – implementation – progress) on a single page. Would like to avoid forms with lots of check marks.
- Cathleen recognized that it is not easy to come up with meaningful actions for some hazards (eg severe storms, hail) and that increasing public awareness is the only realistic option for mitigation – as previously recommended in Region 2. Handout 15b provides an example of an action worksheet for public outreach for all natural hazards.



## WESTERN REGION – 4/3/13

- New DFIRMs for Monmouth County are not expected to include significant revisions for inland areas.
- Sara Margolis recommended that each community should analyze a separate range of actions.
- Selected actions should be consistent/aligned with individual community capabilities.
- Cathleen: capability assessments should be clear about people holding multiple posts – if one person holds two positions this should be made clear rather than implying that there are two different individuals (can give misleading impression of communities capabilities).
- FEMA encourage full participation of public utility companies in mitigation plans; they can be eligible for funding as a sub-grantee. Also applies to colleges, universities, and even school districts.
- Cathleen clarified that the State is responsible for prioritizing mitigation actions for funding, not FEMA. While post Irene the State made a policy decision to concentrate funds on acquisition of properties in northern NJ, post-Sandy priorities have not been decided.
- The mitigation plan can be used to support funding applications from sources other than HMGP.
- Important to specify planning mechanism in implementation strategy – easier to implement via existing programs.
- While section 9 of the plan lays out plan integration in general terms, the update should also relate details of what actually happened.
- Progress with mitigation actions is required for the update and is an opportunity to document obstacles to progress. Communities should remember that progress reports will be required for every project selected for inclusion in the plan.
- FEMA would prefer to see 2-3 high quality achievable projects in the plan for each community rather than 6-7 vaguely defined projects or those which have little chance of completion (due to incompatibility with local capabilities, for example).

## MID-MONMOUTH REGION – 4/4/13

### URS Scope of Work Mod1

#### Notetaking at FEMA-led Mitigation Strategy Workshops

- Bayshore Region – Tuesday, April 2, 2013
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- South Monmouth Region – Friday, April 5, 2013

Scheduled for 9 am – 1:30 pm at MCOEM, 300 Halls Mill Road, Freehold

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4/2/13	4/3/13	4/4/13	4/5/13
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ATL.HIGHLANDS	COLTS NECK	DEAL	AVON
HAZLET	ENGLISHTOWN	EATONTOWN	BELMAR
HIGHLANDS	FARMINGDALE	FAIR HAVEN	BRADLEY BEACH
HOLMDEL	FREEHOLD BORO	LITTLE SILVER	BRIELLE
KEANSBURG	FREEHOLD TWP.	LOCH ARBOR	INTERLAKEN
KEYPORT	HOWELL	LONG BRANCH	LAKE COMO
MATAWAN	MANALAPAN	MONMOUTH BEACH	MANASQUAN
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UNION BEACH	ROOSEVELT	RUMSON	OCEAN TWP.
BROOKDALE COLLEGE	U FREEHOLD	SHREWSBURY BORO	SEA GIRT
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		MONMOUTH UNIVERSITY	TINTON FALLS
			WALL TWP

## MID-MONMOUTH REGION – 4/4/13

MID MONMOUTH REGION INVITEES	INVITEES THAT WERE REPRESENTED	BAYSHORE REGION WORKSHOP ATTENDEES
ALLENHURST		
DEAL		
EATONTOWN		
FAIR HAVEN	x	Jeff Jarvis, Deputy
LITTLE SILVER		
LOCH ARBOR		
LONG BRANCH	x	Buzz Baldanza, DPW
MONMOUTH BEACH		
OCEANPORT	x	Buzz Baldanza, OEM Coordinator
RED BANK	x	Thomas Welsh, Coordinator
RUMSON	x	Tom Rogers
SHREWSBURY BORO		
SHREWSBURY TWP.		
WEST LONG BRANCH		
MONMOUTH UNIVERSITY		
FEMA	x	Mickey Stroup, DAE Doug McDonald, DAE Cheryl Copeland, DAE Sara Margolis, Contractor, Dewberry
NJOEM	x	Senetia Henderson, State Agency Liaison, Contractor, J.L. Witt
MONMOUTH COUNTY	x	Joe Barris, Assistant Director, Division of Planning Gary McTighe, Deputy Anna Foley, Contractor, URS
<b>OTHER REGIONS</b>		
LAKE COMO – Southern Monmouth Region	x	Louise Mekosh, Boro Clerk/Administrator

- Note: See attached sign in sheet for detailed contact information

Others in attendance:

Representative from **Birdsall Services Group, Chris Lettini**, who introduced himself as someone who provides municipal engineering services for Brick, Belmar, and Long Branch.

## MID-MONMOUTH REGION – 4/4/13

### Municipal Feedback

- **County Planning** discussed a recent restructuring of the Department, and indicated that there now is a much closer working relationship between Planning and OEM at the County level. He opened the door to participation in the plan update process, and to supporting municipalities with various technical assistance related to the plan update and beyond.
- **Red Bank** mentioned a sewer lift station that they have in a flood zone on the river, with a possible project being to raise the electrical components.
- **Birdsall** recommended that some of its municipalities could benefit from having underground utilities, and a possible action being to coordinate with County Planning and the utility companies.
- **Oceanport** mentioned that the Borough Hall needs to be relocated, but there is no place to move to.
- **Red Bank** has a school located in a swamp. They'd like to relocate, but there's no place to move it to. The land around the school is sinking. It sustained more than \$1 million on damages after Sandy when 6" of water was in the whole school. It's located at the end of River Street. Also mentioned that the Borough doesn't have the authority to tell the school district what to do. FEMA recommended partnering with Planning, and evaluating the Land Use Plan / Master Plan to see where it could go, or perhaps partnering with another municipality / joint district?
- **JCPL** issues came up a bit. Municipalities, hands tied. Company was referenced as having aging systems, not being proactive in terms of tree trimming programs, etc.

### Key FEMA Points

- Doug McDonald mentioned that after Sandy, he reached out to many municipalities in Monmouth County (via phone) to ask them about the Hazard Mitigation Plan. He found that many didn't know about the plan, what it was, where it was, or what the implications were of the adoption resolution.
- Emphasis that the plan is the plan of each municipality; that the municipalities are equal partners with the County.
- Stressed the importance of the process itself, and local participation in the process.



## MID-MONMOUTH REGION – 4/4/13

- Need for local ownership of the plan.
- Reminded attendees that the plan is a living document; it is to be maintained and updated regularly.
- Municipalities (and their respective departments, not just OEM) should know what it is, where it is, and how to make use of it.
- FEMA stressed that the worksheets being distributed today are intended to be useful, not mandatory.
- Attendees were reminded of the need to *be specific* in their identification of mitigation actions, and placed a great deal of emphasis on the importance of insuring that projects demonstrate the link between risks and actions.
- Cheryl and Mickey told the group that 25% local match for grants like HMGP could be in-kin. It was implied that the full 25% could be all in-kind, but that's not my understanding.

### Key NJOEM Points

- Shanita (Witt) stated that it was mandatory for school districts to participate in the process (just like a municipality) if they wanted to receive FEMA funding. Many questions were raised regarding whether or not this was the actual requirement. Considerable discussion followed, with many perspectives (from FEMA staff in attendance, as well as their contractor from Dewberry) on what the real FEMA requirements actually were. In the end, it appeared as if there was a general consensus with URS' understanding: that districts couldn't apply to FEMA directly if they didn't participate directly and adopt (like a municipality would) BUT that the municipality or the county in which they are located could sponsor, as long as the municipality/county successfully participated and adopted (in the same manner as a municipality would sponsor an individual homeowner, for example, and apply on their behalf).

9:00 am to 12:30 pm

## SOUTH REGION – 4/5/13

### URS Scope of Work Mod1

#### Notetaking at FEMA-led Mitigation Strategy Workshops

- Bayshore Region – Tuesday, April 2, 2013
- Western Monmouth Region – Wednesday, April 3, 2013
- Mid Monmouth Region – Thursday, April 4, 2013
- South Monmouth Region – Friday, April 5, 2013

Scheduled for 9 am – 1:30 pm at MCOEM, 300 Halls Mill Road, Freehold

<b>BAYSHORE REGION</b>	<b>WESTERN MONMOUTH REGION</b>	<b>MID MONMOUTH REGION</b>	<b>SOUTH MONMOUTH REGION</b>
4/2/13	4/3/13	4/4/13	4/5/13
ABERDEEN	ALLENTOWN	ALLENHURST	ASBURY PARK
ATL.HIGHLANDS	COLTS NECK	DEAL	AVON
HAZLET	ENGLISHTOWN	EATONTOWN	BELMAR
HIGHLANDS	FARMINGDALE	FAIR HAVEN	BRADLEY BEACH
HOLMDEL	FREEHOLD BORO	LITTLE SILVER	BRIELLE
KEANSBURG	FREEHOLD TWP.	LOCH ARBOR	INTERLAKEN
KEYPORT	HOWELL	LONG BRANCH	LAKE COMO
MATAWAN	MANALAPAN	MONMOUTH BEACH	MANASQUAN
MIDDLETOWN	MARLBORO	OCEANPORT	NEPTUNE
SEA BRIGHT	MILLSTONE	RED BANK	NEPTUNE CITY
UNION BEACH	ROOSEVELT	RUMSON	OCEAN TWP.
BROOKDALE COLLEGE	U FREEHOLD	SHREWSBURY BORO	SEA GIRT
		SHREWSBURY TWP.	SPRING LAKE
		WEST LONG BRANCH	SPRING LAKE HTS.
		MONMOUTH UNIVERSITY	TINTON FALLS
			WALL TWP

**SOUTH REGION – 4/5/13**

SOUTH REGION INVITEES	INVITEES THAT WERE REPRESENTED	SOUTH REGION WORKSHOP ATTENDEES
ASBURY PARK	X	Assistant to OEM
AVON	X	OEM Deputy OEM
BELMAR	X	OEM
BRADLEY BEACH	X	OEM Deputy OEM/Councilman Clerical
BRIELLE	X	Chief of Police Borough Engineer Grant Manager
INTERLAKEN		
LAKE COMO		
MANASQUAN		
NEPTUNE	X	OEM Coordinator
NEPTUNE CITY		
OCEAN TWP.		
SEA GIRT		
SPRING LAKE		
SPRING LAKE HTS.		
TINTON FALLS		
WALL TWP		
ATLANTIC HIGHLANDS	x	OEM/Administrator
FEMA	x	Sara Margolis, Region 2 Mickey Stroup, DAE Doug McDonald, DAE Cheryl Copeland, DAE Shubha Shrivastava, Contractor, URS
SHMO		Shenetia Henderson
MONMOUTH COUNTY	x	Margaret Murnane Ed Sampson Richard Franks, Contractor, URS

- Note: See attached sign in sheet for detailed contact information

**Municipal Feedback and Issues**

- Brielle:** One of the representatives was apparently not aware of the existing plan and its purpose.
- Bradley Beach/Avon-by-the-Sea:** key issue for them is Sylvan Lake which has serious drainage issues and affects several municipalities. Sylvan Lake was included in a project in the initial plan.

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## SOUTH REGION – 4/5/13

- Some municipalities apparently not aware of Repetitive Loss Properties in their jurisdictions.
- **Belmar:** Lake Como has serious drainage problems (situation is very similar problem to Sylvan Lake ), and neighboring municipalities also affected (Borough of Lake Como in this case). 100 houses affected, if all were to be elevated the elevations would range from 4-6 feet. Belmar representative did not completely discount the nonstructural option, but believed that modifications to existing outfalls/drainage/pumping system would be easier and more locally acceptable. Was included in the initial plan.
- **Avon-by-the-Sea:** Seeking to restore/improve shorefront bulkheads and dunes (not in original plan). FEMA: Must demonstrate how such projects would reduce risk to specific assets and property. Avon representatives estimate that dune/bulkhead improvements would benefit the first two rows of shorefront properties (40-50 structures?).
- **Monmouth County:** Director of Planning raised the issue of dam failure, seen as a concern in several county locations, particularly the Manasquan Reservoir. Director mentioned possible mitigation measures for properties in potential downstream inundation zone such as acquisition and elevation, rezoning areas downstream of the dam, and also reducing impervious areas in watershed upstream of the dam.
- **NFIP Participation:** there appears to be some inconsistency in the current records. Freehold Borough and Shrewsbury Township do not appear on FEMA's list of non-participating communities, but they also do not appear on the Community Status list of current participating communities either.
- **Bradley Beach:** basic evaluation of a potential plan to dredge Sylvan Lake to increase capacity: No problems with technical feasibility, environmental benefits are anticipated in the form of improved water quality and habitat, socially and politically the project is very popular, and also there is a local champion.
- **Belmar:** evaluation of Lake Como project very similar to Sylvan Lake.
- **Neptune:** River bulkheads for flood protection – plug gaps and increase crest elevations. Flood damage risk reduced for ~200 properties. Technical feasibility not in doubt, minor adverse environmental impact but NJDEP permits are in place, project has local champion, also meets additional community objectives of



improving waterfront access and promoting recreation. Phase 1 included in original plan was funded and completed.

- **Bradley Beach:** Want to include backup power generators for Borough Hall alongside other mitigation actions in plan update. Currently eligible for HMGP funds.
- **Avon:** Looking to collaborate with Bradley Beach on Sylvan Lake project, potential sources of funding from NJDEP and NRCS as well as FEMA. There is also a Lake Commission which has no real authority but good example of a local champion. OEM would take the lead in administering the project.
- **Atlantic Highlands:** Original plan includes projects to mitigate flooding and erosion problems. Following this workshop the Borough will actively pursue property acquisitions (would like to amend existing LOI) which could be undertaken via the open space plan. For example, one affected property is adjacent to a walking trail and the acquired property could be added to the recreation land. Could pursue funding from Friends of the Navesink in addition to HMGP.
- **Brielle:** Would like to consider property elevations and would like more details regarding computation of substantial damage and funding to cover the 24% owners' share. Observation: elevations can be costly: two were done in Sea Bright (post-Irene) for about \$250,000 each.

### Key FEMA Points

- Mickey Stroup emphasized that the plan should be reviewed every year by all participating jurisdictions and the County.
- Shenetia Henderson clarified that FEMA expects a stronger and more detailed plan than the initial one, with more participation. Also that ultimate ownership of the plan rests with the participating jurisdictions, not FEMA, the State, or the consultant.
- “Concise is nice”
- New review tool replaces the previous crosswalk tool with the intent that the review tool judges the intent of the plan rather than just checking boxes.



- Attendees encouraged to check out new FEMA publication “Mitigation Ideas” <http://www.fema.gov/library/viewRecord.do?id=6938>
- Plan updates must demonstrate link between risk assessment and selected actions more clearly.
- The intent of the “Action Worksheet” is to reduce the size of the plan document by combining all key elements of each action (risk – action – implementation – progress) in one location.
- Where risks cross municipal boundaries (such as in the Sylvan Lake and Lake Como examples), projects undertaken jointly by teams of jurisdictions are very much encouraged and could lead to administrative cost savings and other efficiencies.
- Each participating jurisdiction must analyze a range of actions for their individual municipality.
- CRS participation is very much encouraged.
- Action evaluation – basic STAPLEE was used for the first plan but FEMA’s expectation for the update is that the evaluation goes deeper: In practice this means comments and explanations for each criteria rather than + or – as in previous forms.
- Municipal master plans and open space plans are good examples of existing planning mechanisms that can be used for mitigation.
- FEMA emphasized that mitigation actions can and should apply to future development as well as existing buildings.
- Capability assessment should be honest and distinguish between one person holding five positions and five different people holding those positions. Can give misleading picture of community capabilities.
- Reminder that school districts can act as fully participating jurisdictions in a multi-jurisdictional plan. The County should make all school districts aware of this opportunity.

FEMA Region 2

# Hazard Mitigation Planning

**A Workshop for Updating your Mitigation Strategy Monmouth County, NJ**  
April 2-5, 2013

H-List and H01

## WELCOME!

- **Workshop purpose:**
  - Jumpstart mitigation strategy update
- **Who's here?**
  - Planners, floodplain managers, public works, emergency managers, other?
- **Your role in planning process?**
- **Your workshop expectations?**

FEMA Region II 2 H02 RiskMAP

## WORKSHOP OUTLINE

- Hazard mitigation planning
- Mitigation strategy
  - Heart of the plan
  - Implementation focus
- What makes a good mitigation strategy?

FEMA Region II 3 RiskMAP

## Why Develop a Mitigation Plan?

Mitigation Planning Process assists with -

- **Public Support**
  - Involves stakeholders
  - Builds political commitment and partnerships
- **Risk Reduction**
  - Saves lives and reduces property damage
  - \$4 saved for every \$1 spent on mitigation
- **Project Implementation**
  - Provides a road map for implementing projects and actions
- **Grant Eligibility**
  - Hazard Mitigation Assistance (HMA) grant funding requires an approved plan

FEMA Region II 4 H03 RiskMAP

## Hazard Mitigation

**Approach**  
Mitigation as a way of doing business in the Community

**Goal**  
To reduce the risk to your community from natural hazards

FEMA Region II 5 RiskMAP

## Mitigation Planning Cycle

The cycle consists of four main stages: Establish a Planning Process, Assess Risks, Develop a Mitigation Strategy, and Implementing, Maintaining & Updating your Approved Plan. The cycle is continuous, with arrows indicating a clockwise flow between these stages.

FEMA Region II 6 RiskMAP

## Some Key Points

- *It's your plan.*
- *A consultant may support you, but your active participation is critical.*
- *The planning process is as important as the plan itself.*

## Updating your Plan?



"The Disaster Mitigation Plan?  
You just have to know where to look!"

## Writing the Plan

- **Goal:**
  - clear
  - useful
  - living document
- **Concise is nice**



## MITIGATION STRATEGY STEPS

- **Focus on mitigation**
- **Address risk findings**
- **Analyze a range of actions**
- **Assess community capabilities**
- **Evaluate identified actions**
- **Prepare implementation plan**

## MITIGATION STRATEGY STEP 1

- **Focus on mitigation**
  - Address risk findings
  - Analyze a range of actions
  - Assess community capabilities
  - Evaluate identified actions
  - Prepare implementation plan

## What is Mitigation?

Mitigation is any sustained action taken to reduce long-term risk to life and property from a hazard event



**Mitigation**  
elevated home by the river



**Mitigation**  
property acquisition



**Preparedness & Response**  
purchase of a police command vehicle

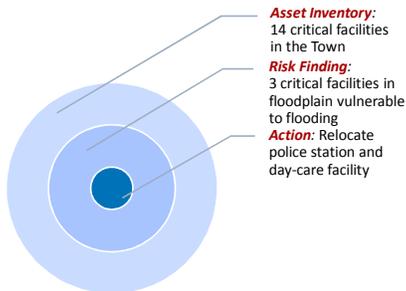
## DISCUSSION: Which Actions are Mitigation?

- Examine the actions in your latest plan
- Determine which actions are mitigation
  - Not preparedness or response
  - Not maintenance activities
  - Not stand-alone studies
  - Submitted plan should list mitigation actions together
- Q&A

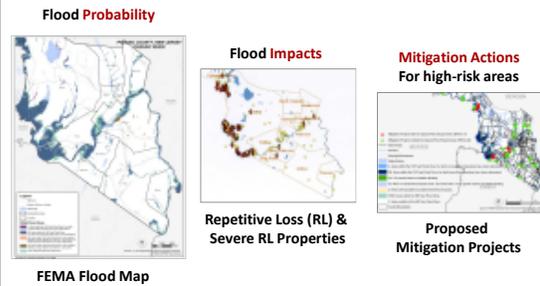
## MITIGATION STRATEGY STEP 2

- Focus on mitigation
- Address risk findings
- Analyze a range of actions
- Assess community capabilities
- Evaluate identified actions
- Prepare implementation plan

## Actions Should Address Risk Findings



## Using Flood Maps & Data to Link Risk and Actions



## Action Worksheet

- A worksheet for each action that brings together material all in one place
- Indicates connections between risk, action & implementation
- Provides an adaptable framework that allows input of meaningful text
- See *Action Worksheet example*



## Risk Findings: Summarize as Problem Statements



### Risk Findings

- 12 Repetitive Loss Properties located in one neighborhood with one of the highest combined claim amounts (\$4,300,000) over past 30 years.
- Emergency Operations Center experienced roof and window damage during Hurricane Irene
- Public understanding of mitigation, mitigation programs and their benefits is limited.

## Identify Actions that Address Risk

Risk Findings	Mitigation Actions
12 Repetitive Loss Properties located in neighborhood with one of the highest combined claim amounts (\$4,300,000) over past 30 years.	Acquire (or elevate) Repetitive Loss Properties
Emergency Operations Center experienced roof and window damage during Hurricane Irene	Retrofit EOC with storm shutters and wind-resistant roofing materials
Public understanding of mitigation, mitigation programs, and their benefits is limited	Develop a public outreach program

## BREAKOUT #1: Risk Findings and Mitigation Actions

- Identify
  - one key risk finding, and
  - a *new or ongoing* action that addresses this risk
- Complete the first 3 sections of an **Action Worksheet**
  - intro, assessing the risk and describing the action*
- Report-outs and discussion



## MITIGATION STRATEGY STEP 3

- Focus on mitigation
- Address risk findings
- Analyze a range of actions
- Assess community capabilities
- Evaluate identified actions
- Prepare implementation plan

## What constitutes Comprehensive Range of Actions?



### STRUCTURAL PROJECTS

Acquisition  
Elevation  
Retrofits  
Drainage

### PLANNING MECHANISMS

Zoning Codes  
Ordinances  
Open Space Plan  
NFIP

### EDUCATION & OUTREACH

Public Awareness  
Outreach  
Educational Programs

### NATURAL RESOURCE PROTECTION

Stream and Wetland Restoration  
Erosion Control

MITIGATION

IMAGINATION

## What Range of Actions might address this Wildfire Risk?



**Risk Findings**  
(Problem Statement)

Within wildland-urban interface areas:

- Two critical facilities
  - School & county maintenance shop
- \$500 million in property value at risk
- Increasing development pressure

### Analyzed Actions...

- Must be more than a generic list
- Must be unique to your community



Hurricane Clips



Elevated Home

FEMA Region II 25 RiskMAP

### For Multi-jurisdictional Plans

*Each jurisdiction must develop its own, unique actions, but some actions may be shared or similar across jurisdictions*

Participating Jurisdiction	Mitigation Action
County X	Public awareness video for local channel about "how to prepare for a high wind event"
Village Y and Town Z	Bank stabilization project along stream to remedy erosion that causes flooding in both towns
Village A	Adopt freeboard

FEMA Region II 26 RiskMAP

### MITIGATION STRATEGY STEP 4

- Focus on mitigation
- Address risk findings
- Analyze a range of actions
- **Assess community capabilities**
- Evaluate identified actions
- Prepare implementation plan

FEMA Region II 27 RiskMAP

### Assess Your Community Capabilities

- **Plans**
  - Master plan
  - Land use plan
- **Policies and Ordinances**
  - Building codes, zoning
- **Programs**
  - NFIP and CRS
- **Other Resources**
  - PNPs
  - Educational institutions

- **Studies and Reports**
  - Flood Insurance Studies, HAZUS
- **Staff and Departments**
  - Planner, engineer
  - Building code official
  - Public works official
  - Local floodplain administrator
  - GIS specialist
  - Public information official

FEMA Region II 28 H09 RiskMAP

### DISCUSSION: Align with Community Capabilities

- Review how community capabilities are addressed in your latest plan
- Identify how they have changed and how they can be improved
- See sample *Community Capabilities Worksheet*
- Discussion



FEMA Region II 29 H10/H11 RiskMAP

### Describe NFIP Participation

- Insurance summary
- Staff resources
- Regulation
  - Flood map status
- Compliance history
- Community Rating System (CRS)
- See NFIP Worksheet and example



FEMA Region II 30 H12/H13 RiskMAP

## Include NFIP Compliance Actions

- Not enough to just state “will maintain compliance with NFIP”
- Actions on **how the NFIP is administered**
  - e.g. Identify non-compliant structures
- Not all flood mitigation actions are NFIP compliance actions
  - e.g. structural projects
- Proactive, best practices
  - e.g. CRS activities



## MITIGATION STRATEGY STEP 5

- Focus on mitigation
- Address risk findings
- Analyze a range of actions
- Assess community capabilities
- Evaluate identified actions
- Prepare implementation plan

## Evaluation Process

- Approach
  - STAPLEE
  - Action Worksheet
- Must include a cost-benefit review

Potential Actions Identified



## Incorporating Benefit-Cost Review

### Is it cost effective?

- What are the losses avoided? i.e., what is the risk reduction?
  - Will it protect lives and prevent injuries?
  - Will it reduce damage to structures and infrastructure?
- What are the costs of the action?
- Will the losses avoided outweigh the action costs?



## Other Considerations

- Technical Feasibility
- Political Support
- Legal
- Environmental
- Social
- Administrative Capability
- Local Champion
- Other Community Objectives



## BREAKOUT #2: Evaluate Actions

- See **Evaluating the Action section** of Floodproof Worksheet
- Fill out this section of your Action Worksheet
- Report outs and discussion



## MITIGATION STRATEGY STEP 6

- Focus on mitigation
- Address risk findings
- Analyze a range of actions
- Assess community capabilities
- Evaluate identified actions
- Prepare implementation plan

## What goes into Your Implementation Plan?

- Describe the action (be specific)
- Prioritize the action
- Designate party responsible for implementation
- Identify costs and potential funding sources
- Estimate timeframe for completion
- Determine planning mechanisms



## Integrate Actions into Existing Planning Mechanisms



## Clearly Link Risk, Actions & Implementation

Risk Findings	Mitigation Actions	Implementation
12 Repetitive Loss Properties located in neighborhood with one of the highest combined claim amounts (\$4,300,000) over past 30 years.	Acquire Repetitive Loss Properties	- Apply for HMGP to acquire properties and use in-kind services and local open-space fund as 25% match. - Modify comprehensive plan and zoning to identify land as open space.
Emergency Operations Center experienced roof and window damage during Hurricane Irene	Retrofit EOC with storm shutters & roofing	- Apply for an HMGP grant for the retrofit or submit to Capital Improvement Plan budget. - Institute a policy for public/critical facilities to review/mitigate these buildings for wind damage.
Public understanding of mitigation and its benefits is limited.	Develop public outreach program	- County posts hazard mitigation information on website and municipalities provide link to it. - County and municipalities disseminate flyers to educate citizens about mitigation.

## BREAKOUT # 3: Plan for Implementing Actions

- See **Implementing the Action** section of Action Worksheet example
- Fill in this section on your Action Worksheet
- Report outs and discussion



## Examples: Progress in Mitigation Actions

Mitigation Actions	Implementation	Progress Update
Acquire Repetitive Loss Properties	- Apply to HMGP to acquire properties; use staff time and Town conservation funds as match.	- Completed partially - acquired 5 of 12 flood-prone properties, using HMGP.
Retrofit EOC with storm shutters & roofing	- Submit to Capital Improvement Plan budget. - Consider a policy requiring critical facilities to have higher level of wind protection.	- Retrofit added to Capital Improvement budget. - New policy under consideration.
Develop public outreach program	- Post hazard mitigation information on Town website. - Use social media to educate citizens about mitigation.	- Town website has separate webpage for mitigation and new Facebook mitigation page.

## DISCUSSION: Progress in Mitigation Efforts

- Review **Action Progress Report** → 
- See **progress section** of Action Worksheet example 
- Fill out this section on your Action sheet
- Report outs and discussion

FEMA Region II      43    H16/H17      RiskMAP

## AFTER SANDY, WHAT'S NEXT?



FEMA Region II      44      RiskMAP

## DISCUSSION: Increasing Disaster Resilience

- Irene, Lee and now Sandy...
- Sandy Recovery Resources 
- Climate change impacts in your community?
- Mitigation action ideas?

FEMA Region II      45      RiskMAP

## Safe Growth

- Identify Opportunities with the **Safe Growth Worksheet**
- Examples in your community? 

FEMA Region II      46    H18      RiskMAP

## WHAT MAKES A GOOD MITIGATION STRATEGY?

- Reflects your community's risk, capabilities and goals
- Benefits outweigh the costs
- Allows your community to seize post-disaster opportunities and implement projects
- Results in risk reduction and a more disaster-resilient community

FEMA Region II      47      RiskMAP

## Questions?

**Mitigation Planning Contacts**

New York State: Richard Lord (RLord@dhes.ny.gov)  
New Jersey: Robert Little (njmitigation@gw.njsp.org)  
FEMA Region II: Cathleen.Carlisle@fema.dhs.gov

**Thank You**

FEMA Region II      48    H19      RiskMAP

## **6 – CPG Meeting, April 15, 2013**

- Sign-in sheet, 9am session
- Sign-in sheet, 7pm session
- Agenda
- PowerPoint presentation



Monmouth County Multi-Jurisdictional Hazard Mitigation Plan  
 Plan Update CPG Meeting 3 - April 15, 2013 - 9:30 am Session  
 Monmouth County Agriculture Building, 4000 Kozloski Road, Freehold, NJ

Last Name	First Name	Representing	Email Address	Phone
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GRAVITT	GEORGE	HOWELL TWP	ggravitt@twbhowell.nj.us	732-938-4500 x2490
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GRACE	MARGARET	FEMA	MARGARET.GRACE@FEMA.DHS.GOV	202-805-9545
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TORRANCE	ROBERT	WALL	RTORRANCE@WALLPASSAGE.NJ.GOV	732-449-8444 x226



Monmouth County Multi-Jurisdictional Hazard Mitigation Plan  
 Plan Update CPG Meeting 3 – April 15, 2013 – 9:30 am Session  
 Monmouth County Agriculture Building, 4000 Kozloski Road, Freehold, NJ

Last Name	First Name	Representing	Email Address	Phone
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Connolly	Colleen	Belmar	cconnolly@boro.belmar.nj.us	732-681-9191



Monmouth County Multi-Jurisdictional Hazard Mitigation Plan  
 Plan Update CPG Meeting 3 – April 15, 2013 – **9:30 am Session**  
 Monmouth County Agriculture Building, 4000 Kozloski Road, Freehold, NJ

Last Name	First Name	Representing	Email Address	Phone
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Mc Gleanon	Mike	Long Branch	mmcgleanon@longbr.nj.us	732 245-7960
Henderson	Shenelia	NJ OEM / SAA	shenderson@staff.jhit.com	(601) 918-5765
Juliana Funks		OAS	victoria.z.funks@us.usa	973 883 8559



Monmouth County Multi-Jurisdictional Hazard Mitigation Plan  
 Plan Update CPG Meeting 3 – April 15, 2013 – 7:00 pm Session  
 Monmouth County Agriculture Building, 4000 Kozloski Road, Freehold, NJ

Last Name	First Name	Representing	Email Address	Phone
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<del>FOLEY</del>	<del>Anna</del>			



Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update  
*Core Planning Group Meeting #3 - Progress Meeting*  
April 15, 2013  
9:30 am and 7:00 pm  
Monmouth County Agriculture Building, 4000 Kozloski Road, Freehold, NJ

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AGENDA

- **Welcome and Opening Remarks**..... *Michael Oppegaard and Margaret Murnane Brooks, MCOEM*
  
- **Looking Back - The CPG Meeting of September 2012**.....*Anna Foley and Richard Franks*
  - **Perspectives and perceptions six months ago**
    - Some key slides from the last meeting that best reflected perceptions at that time will be highlighted as a way of highlighting how Sandy has provided a new frame of reference.
    - CPG members will be expected to listen / ask questions.
  
- **Looking Forward - How Sandy Lessons Learned Are Shaping Local Mitigation Strategies**
  - **9:30 am Session: Guest Speaker – Buzz Baldanza, Oceanport**
  - **7:00 pm Session: Group Discussion**
    - Perspectives of how the disaster has changed the municipal perception of the severity of the problem, the need for mitigation, and what mitigation strategies to pursue
  - **Both Sessions: Brief overview of the April 2-5 workshops (URS/FEMA)** - the importance of developing a robust mitigation strategy.
  
- **Be a Force of Nature in Your Own Community**.....*Anna Foley and Richard Franks, URS*
  - URS will discuss:
    - **Knowing your community’s vulnerabilities and implementing hazard mitigation measures can reduce your risk and increase your community’s resiliency.**
      - Inform the public about the natural hazards in their locality;
      - Provide information that can be used to mitigate the impacts; and
      - Motivate individuals and communities to take actions that will prepare them for the next disaster and share their mitigation steps with others.
    - **Outreach to the public and other stakeholders during the plan update process is required for FEMA to approve the plan for your jurisdiction**
      - See Guidance Memo 1 for more information and tips; and
      - Use the Outreach Log to document your activities.
  - CPG members (County and municipal representatives) will be expected to participate in a group discussion and share some of their outreach activities to date with the other communities.

- **Hazard Rankings Versus Projects: The Good, The Bad and The Ugly ...***Anna Foley and Richard Franks, URS*
  - **The link between the risk assessment and mitigation strategies**
    - URS will present examples of good approaches to emulate when updating your mitigation strategies, and not-so-good approaches to try to avoid
    - CPG members will be expected to participate in group discussions that may arise.
  
- **SharePoint Site .....***Anna Foley and Richard Franks, URS*
  - <https://ieprojects.urscorp.com/clients/mcnj/SitePages/Home.aspx>
  - URS will navigate to the site (live) and provide an overview of structure and content.
  - CPG members will be expected to indicate whether they have been on the site yet, and any feedback they would like to share.
  
- **Facebook Page .....***Anna Foley and Richard Franks, URS*
  - URS will navigate to the Monmouth County Sheriff's Office Facebook Page
  - CPG members will be expected to indicate whether they have been on the site yet, and any feedback they would like to share.
  
- **Plan Update Worksheets - Capturing The Ebb and Flow of Information Between Communities and Plan Authors.....***Anna Foley and Richard Franks, URS*
  - **Recap of what was done for the 2009 Plan**
  - **Overview of what needs to be done for this Plan Update**
    - URS will discuss:
      - *Who should complete the worksheets*
      - *What will they encompass*
      - *When will they be distributed; when will they be due back*
      - *Where to get copies*
      - *How to submit responses*
      - *Why this is a necessary step of the process*
    - CPG members will be expected to listen / ask questions.
  
- **Questions and Answers.....***All*
  
- **Closing Remarks.....***Michael Oppegaard and Margaret Murnane Brooks, MCOEM*
  
- **Adjourn**

**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**

**Core Planning Group Meeting #3**  
**April 15, 2013**  
**9:30 am / 7:00 pm**  
**Monmouth County Agriculture Building**

**Opening Remarks**

**Today's Agenda**

- Welcome and Opening Remarks
- Looking Back – The CPG Meeting of September 2012
- Looking Forward – How Sandy Lessons Learned Are Shaping Local Mitigation Strategies
- Be a Force of Nature in Your Own Community
- Hazard Rankings Versus Projects: The Good, The Bad, and The Ugly
- SharePoint Site
- Facebook Page
- Plan Update Worksheets – Capturing the Ebb and Flow of Information *Between Communities and Plan Authors*
- Questions and Answers
- Closing Remarks
- Adjourn

**Looking Back – The CPG Meeting of September 2012**

**NFIP Payouts - Then....**

- New Jersey (as of March 2011):
  - 5<sup>th</sup> in the country in terms of NFIP Payouts

LA:	\$16,041,923,827
TX:	\$5,475,442,711
FL:	\$3,602,905,854
MS:	\$2,867,988,741
<b>NJ:</b>	<b>\$970,512,663</b>

**Looking Back – The CPG Meeting of September 2012**

**NFIP Payouts - Now.....**

- New Jersey (as of February 2013):
  - Now, 3<sup>rd</sup> in the country in terms of NFIP Payouts, and **31.5% higher**

LA:	\$16,624,475,770
TX:	\$5,529,582,373
<b>NJ:</b>	<b>\$4,030,950,590</b>
NY:	\$3,806,399,120
FL:	\$3,699,451,971

**Looking Back – The CPG Meeting of September 2012**

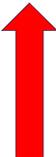
**Value of Claims Paid, Monmouth County – Then ...**

- Since May 2008:
  - The total value of all claims paid county-wide increased by **42%** (\$76.8M in May 2008 to \$109.5M in May 2012)

**Looking Back – The CPG Meeting of September 2012**

Value of Claims Paid, Monmouth County – Now...

- Since May 2008:
  - The total value of all claims paid county-wide has increased by **646%** (\$76.8M in May 2008 to \$573.0M in February 2013)



**Looking Back – The CPG Meeting of September 2012**

“...each locality controls the character of its disasters...the decisions they make today will determine future losses.”

- Dennis Mileti, University of Colorado at Boulder, “Disasters by Design”



**Looking Forward - How Sandy Lessons Learned Are Shaping Local Mitigation Strategies**

- 9:30 am Session: Guest Speaker – Buzz Balanza, Borough of Oceanport
- 7:00 pm Session: Group Discussion
- Perspectives of how the disaster has changed the municipal perception of the severity of the problem, the need for mitigation, and what mitigation strategies to pursue.
- Both Sessions: Brief Overview of April 2-5 Workshops



**Looking Forward - How Sandy Lessons Learned Are Shaping Local Mitigation Strategies**

- **FEMA Workshops, April 2-5, Updating Your Mitigation Strategy**
  - Representatives from 23 municipalities and the County attended
  - Purpose: To jumpstart mitigation strategy update

**Looking Forward - How Sandy Lessons Learned Are Shaping Local Mitigation Strategies**

- **FEMA Workshops, April 2-5, Updating Your Mitigation Strategy**
  - Mitigation action: any sustained action taken to reduce long-term risk to life and property from a hazard event
  - Examples:
    - Elevating a home in the floodplain – yes
    - Acquiring at-risk building – yes
    - Purchase of police command vehicle - no

**Looking Forward - How Sandy Lessons Learned Are Shaping Local Mitigation Strategies**

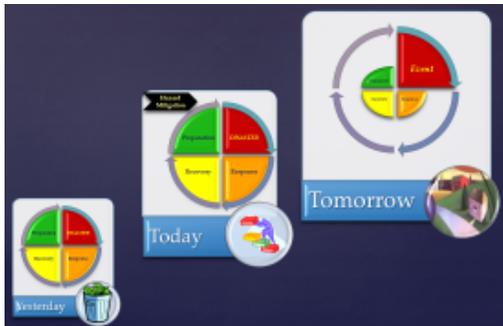
- **FEMA Workshops, April 2-5, Updating Your Mitigation Strategy**
  - Mitigation Strategy
    - Heart of the plan
    - Importance of developing a robust mitigation strategy
    - **Identify actions that address risk**
    - Describe the actions (*be specific*)

 **Be A Force Of Nature In Your Own Community**

- To reduce risk and increase community resiliency
  - Know your vulnerabilities
  - Implement hazard mitigation measures that address those vulnerabilities



 **Be A Force Of Nature In Your Own Community**



 **Be A Force Of Nature In Your Own Community**

- Inform the public and other stakeholders – hazards, risks
- Provide information they can use to mitigate impacts
- Motivate individuals and the community as a whole to take actions that will prepare them for the next disaster and share their mitigation steps with others



 **Be A Force Of Nature In Your Own Community**

- Outreach to the public and other stakeholders during the plan update process is required for FEMA to approve the plan for your jurisdiction
  - Tie into Sandy outreach activities*



 **Be A Force Of Nature In Your Own Community**

- Outreach
  - See **Guidance Memo 1** for more information and tips
  - Use **Outreach Log** to document activities
  - Take advantage of the project **Fact Sheet**



 **Be A Force Of Nature In Your Own Community**

- Outreach
  - All are posted on the SharePoint...
    - <https://ieprojects.urscorp.com/clients/mcnj/SitePages/Home.aspx>
  - ....and on the website....
    - <http://www.monmouthsheriff.org/Sections-read-144.html>



**Be A Force Of Nature In Your Own Community**

- Group Discussion – Types of Outreach Activities To Date



**Hazard Rankings Versus Projects: The Good, The Bad, and the Ugly**

- Goal:
  - Develop robust mitigation strategies
  - Address the greatest risks
  - Steps toward safer, more resilient communities
- Should be a direct link between
  - Risk assessment and mitigation actions
  - Capabilities and mitigation actions
- Strategies for mitigation (damage reduction)
  - Not 'maintenance'
  - Not 'preparedness'
  - Not 'response'

**Hazard Rankings Versus Projects: The Good, The Bad, and the Ugly**



**THE GOOD**  
Projects mitigate the highest ranked hazards



**THE BAD**  
Projects achieve minimal overall damage reduction



**AND THE UGLY**  
Projects don't mitigate much of anything

**Hazard Rankings Versus Projects: The Good, The Bad, and the Ugly**

- Examples – The Good**
  - Bayshore community, highest hazards: extreme wind, hurricane and tropical storm, nor'easter, winter storm, flooding, storm surge
  - Mitigation Actions:
    - Elevation of flood prone roadways
    - Relocation of fire company out of the floodplain
    - Outreach – flood warning signs in floodprone areas
    - Implementation of USACE shore protection and flood control project



**Hazard Rankings Versus Projects: The Good, The Bad, and the Ugly**

- Examples – The Good**
  - Bayshore community, highest hazards: extreme wind, hurricane and tropical storm, nor'easter, winter storm, flooding, storm surge
  - Other Actions
    - Maintain existing shore protection features, clean and maintain existing storm drains and inlets, clean and maintain receiving waterways and creeks, upgrade warning system, upgrade generator at police headquarters

**Hazard Rankings Versus Projects: The Good, The Bad, and the Ugly**

- Examples – The Bad**
  - Inland community, highest hazards: extreme wind, hurricane and tropical storms, nor'easters, winter storms, flooding, and wildfires
  - Actions:
    - Expand and disseminate GIS and other hazard information on the internet
    - Mitigation outreach program
    - Educate residents about driving in winter storms
    - Promote ice and windstorm resistant trees and trimming







### Plan Update Worksheets

*Why This Is A Necessary Step Of The Process*

- FEMA requirements are such that we must document...
  - an update of prior responses, to ensure that the plan still reports conditions that are current and relevant
  - how the plan addresses unique requirements for updates
  - how the plan addresses new standards (2008,2011)

### Plan Update Worksheets

*Why This Is A Necessary Step Of The Process*

- The plan needs to describe how each municipality has met each of the requirements.
- We need you to document these things, so we can write about them in the plan.
- If we don't have the information to be able to write about how your jurisdiction has met the requirements, FEMA can't read about it and, in turn, they will not approve the plan for your jurisdiction.

### Plan Update Worksheets

Worksheet	Original Plan	Plan Update
Hours Log Sheet	•	•
Hazard ID	•	No- see below <sup>1</sup>
Outreach Log	•	•
Land Uses & Development Trends	•	•
Capability Assessment	•	•
STAPLEE Worksheet <sup>2</sup>	•	•
Implementation Strategy Worksheet <sup>2</sup>	•	•
Risk Reduction Worksheet <sup>2</sup>		•
NFIP Worksheet		•
Plan Integration Worksheet		•
Status of Past Projects Worksheet		•
Participation at the Local Level		•

<sup>1</sup> verbal concurrence at Sept. 2012 meeting    <sup>2</sup> Subject to ongoing review/discussion with FEMA

### Upcoming Worksheets

*Who should complete them?*

Worksheet	Who Should Complete
Outreach Log	Jurisdictional Assessment Team
Land Uses & Development Trends	Planning Dept. / Planning Board Member
Capability Assessment	Jurisdictional Assessment Team
STAPLEE Worksheet	Jurisdictional Assessment Team
Implementation Strategy Worksheet	Jurisdictional Assessment Team
Risk Reduction Worksheet	Jurisdictional Assessment Team
NFIP Worksheet	Floodplain Administrator
Plan Integration Worksheet	Jurisdictional Assessment Team
Status of Past Projects Worksheet	Jurisdictional Assessment Team
Participation at the Local Level	Jurisdictional Assessment Team

### Upcoming Worksheets

What will they encompass?

Worksheet	Topic
Outreach Log	List of your outreach activities
Land Uses & Development Trends	Review your community's previous responses and note any changes
Capability Assessment	Review your community's previous responses and note any changes
STAPLEE Worksheet	Document the process your community used to assign a priority to each mitigation measure
Implementation Strategy Worksheet	Tell FEMA how your community plans to implement its mitigation measures

### Upcoming Worksheets

What will they encompass? ...continued...

Worksheet	Topic
Risk Reduction Worksheet	Tell FEMA the risk that each of your mitigation measures is addressing
NFIP Worksheet	Describe your community's floodplain management activities
Plan Integration Worksheet	Document past progress over last planning cycle, and describe targeted activities for the next planning cycle
Status of Past Projects Worksheet	Document the status of projects in your last plan
Participation at the Local Level	Document who was invited to be on your community's Jurisdictional Assessment Team, and whether or not they agreed to participate

### Upcoming Worksheets

When will they be distributed? and due back?

Worksheet	Targeted Distribution Date	Return Date
Outreach Log	July 2012	Oct. 21, 2013
1. Participation at the Local Level	Feb. 28, 2013	March 28, 2013
2. NFIP Worksheet	Feb. 28, 2013	March 28, 2013
3. Land Uses & Development Trends	March 28, 2013	April 29, 2013
4. Capability Assessment	March 28, 2013	April 29, 2013
5. Status of Past Projects Worksheet	April 29, 2013	May 29, 2013
6. Plan Integration Worksheet	April 29, 2013	May 29, 2013
7. STAPLEE Worksheet	May 29, 2013	Oct. 21, 2013
8. Implementation Strategy Worksheet	May 29, 2013	Oct. 21, 2013
9. Risk Reduction Worksheet	May 29, 2013	Oct. 21, 2013

10/21/13

#1

03/28/13

#2

03/28/13





## Upcoming Worksheets

### How To Submit Responses

- Please fill in all worksheets electronically
- Upload Responses to the SharePoint Site
  - <https://ieprojects.urscorp.com/clients/mcnj/SitePages/Home.aspx>
  - Navigate to:
    - Hazard Mitigation Plan → 2014 Plan Update → Plan Update Worksheets → Your Completed Versions
    - Drop into appropriate worksheet folder<sup>1</sup>

<sup>1</sup>File name must include worksheet name and the name of your jurisdiction. Only one submittal per jurisdiction.



## Questions?



## Closing Remarks



## Contact Information

<b>MCOEM</b>	Michael Oppegaard moppegaard@mcsonj.org, 732-431-7400
	Margaret Murnane Brooks mmurnane@mcsonj.org, 732-431-7400
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	Richard Franks richard.a.franks@urs.com, 973-883-8559

## 7 – Steering Committee Meeting, May 2, 2014

- Sign-in sheet



## **8 – CPG Meeting, June 6, 2013**

- Sign-in sheet, 2pm session
- Sign-in sheet, 7pm session
- Agenda
- PowerPoint presentation



Monmouth County Multi-Jurisdictional Hazard Mitigation Plan  
 Plan Update CPG Meeting 4 – June 6, 2013; Afternoon Session - 2pm  
 Monmouth County Fire Academy, 1027 Route 33 East, Freehold, NJ

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S APPAH	Geo	Kypac OEM		
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Foley	ANNA	URS	anna.foley@urs.com	973-883-8500
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Last Name	First Name	Representing	Email Address	Phone
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HABERMAN	Paul	WEST LONG BRANCH	PHOTOPERMAN@WESTLONGBRANCH.ORG	732-229-5000 x212
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Monmouth County Multi-Jurisdictional Hazard Mitigation Plan  
 Plan Update CPG Meeting 4 - June 6, 2013; Afternoon Session - 2pm  
 Monmouth County Fire Academy, 1027 Route 33 East, Freehold, NJ

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WISSECK	Josson	WARE	JWISSECK@WARENJ.CO.NJ	732 496 0909
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Rovens	Tom	Rumson	TRovens@RumsonNJ.gov	732-842-3300
Harmon	Thom	SEABOARD	THarmon@Seaboard.nj.org	732 215-2860
Murnane	Margaret	Monmouth County	murnane@mcsonj.org	732-431-7400 x5798



Monmouth County Multi-Jurisdictional Hazard Mitigation Plan  
 Plan Update CPG Meeting 4 – June 6, 2013; Evening Session - 7pm  
 Monmouth County Fire Academy, 1027 Route 33 East, Freehold, NJ

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FRANKS	RICHARD	URS	richard.frank@urs.com	
Ticketin	Michael	Roswell	MTicketin@aol.com	
Conroy	Mike	Upper Freehold	mconroy@wftnj.com	(609) 548-7191
Murnane	Margaret	Mon-City	mmurnane@mcsonj.org	732 431 7400



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Core Planning Group Meeting #4

June 6, 2013

Afternoon Session 2pm; Evening Session 7pm

Monmouth County Fire Academy, 1027 Route 33 East, Freehold, NJ

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### AGENDA

- **Welcome and Opening Remarks**..... *Michael Oppegaard and Margaret Murnane Brooks, MCOEM*
  
- **Plan Integration – Worksheet #6**.....*Anna Foley, URS, Afternoon Session*  
*Richard Franks, URS, Evening Session*
  
- **Status of Past Projects – Worksheet #5**.....*Anna Foley, URS, Afternoon Session*  
*Richard Franks, URS, Evening Session*
  
- **Common Issues with Worksheets To Date**.....*Anna Foley, URS, Afternoon Session*  
*Richard Franks, URS, Evening Session*
  
- **Reminder About Outreach** .....*Anna Foley, URS, Afternoon Session*  
*Richard Franks, URS, Evening Session*
  
- **Questions and Answers**.....*All*
  
- **Closing Remarks**..... *Michael Oppegaard and Margaret Murnane Brooks, MCOEM*
  
- **Adjourn**

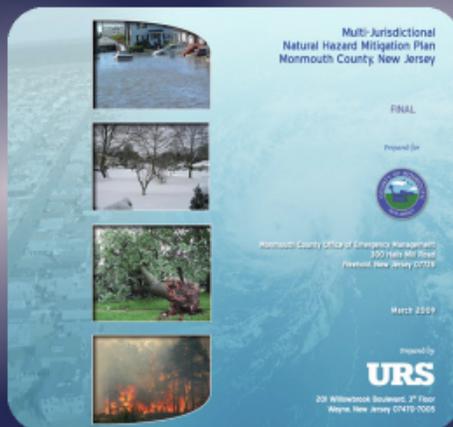


# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

**Core Planning Group Meeting #4**  
**June 6, 2013**  
**2:00 pm / 7:00 pm**  
**Monmouth County Fire Academy**



## Opening Remarks





## Today's Agenda

Welcome and Opening Remarks

Plan Integration (Worksheet #6)

Status of Past Projects (Worksheet #5)

Common Issues with Incoming Worksheets To-Date

Reminder About Outreach

Questions and Answers

Closing Remarks

Adjourn



## Plan Update Worksheets

### *Why This Is A Necessary Step Of The Process*

FEMA requirements are such that we must document....

- an update of prior responses, to ensure that the plan still reports conditions that are current and relevant
- how the plan addresses unique requirements for updates
- how the plan addresses new standards (2008,2011)



## Plan Update Worksheets

### *Why This Is A Necessary Step Of The Process*

- The plan needs to describe how each municipality has met each of the requirements.
- We need you to document these things, so we can write about them in the plan.
- If we don't have the information to be able to write about how your jurisdiction has met the requirements, FEMA can't read about it and, in turn, they will not approve the plan for your jurisdiction.



## Plan Integration

### *What is it?*

#### Plan Integration:

44 CFR Part 201.6(c)(4)(ii)

The process by which local governments incorporate the requirements of the mitigation plan into other planning mechanisms such as comprehensive or capital improvement plans, when appropriate.

#### In other words:

How hazard mitigation will be tied into things like job descriptions, comprehensive or master plans, capital improvement plans, zoning and building codes, site reviews, permitting, etc. - ensure consistency in policy.



# Plan Integration Strategy – 2009 Plan

## What was it?

### Section 9, Pages 9-4 to 9-6 (see handout)

SECTION 9 - PLAN INTEGRATION	SECTION 9 - PLAN INTEGRATION	SECTION 9 - PLAN MAINTENANCE
<p><b>Plan Integration</b></p> <p>As per the 2009 Plan (2009 Plan), the plan shall include all projects for which the environmental impacts are significant or cumulative. The plan shall also include other planning activities that are significant or cumulative.</p> <p>To meet this requirement, the 2009 Plan Integration Plan should include the following:         <ul style="list-style-type: none"> <li>• A description of the projects that are significant or cumulative.</li> <li>• A description of the planning activities that are significant or cumulative.</li> <li>• A description of the cumulative impacts of the projects and planning activities.</li> <li>• A description of the cumulative impacts of the projects and planning activities.</li> </ul> </p>	<p><b>Plan Integration</b></p> <p>The 2009 Plan Integration Plan should include the following:         <ul style="list-style-type: none"> <li>• A description of the projects that are significant or cumulative.</li> <li>• A description of the planning activities that are significant or cumulative.</li> <li>• A description of the cumulative impacts of the projects and planning activities.</li> <li>• A description of the cumulative impacts of the projects and planning activities.</li> </ul> </p>	<p><b>Plan Maintenance</b></p> <p>The 2009 Plan Integration Plan should include the following:         <ul style="list-style-type: none"> <li>• A description of the projects that are significant or cumulative.</li> <li>• A description of the planning activities that are significant or cumulative.</li> <li>• A description of the cumulative impacts of the projects and planning activities.</li> <li>• A description of the cumulative impacts of the projects and planning activities.</li> </ul> </p>



# Plan Integration Strategy - 2009 Plan

## How was it developed?

- Guidance Memo #3, August 2007 – Presented the requirement, and proposed language for this plan subsection.
- Distributed to CPG, and posted on web site
- Comments were requested; none were received
- Proposed Plan Integration Strategy discussed at CPG Meeting of March 2008
- Coordination with MCOEM



## Plan Integration Requirement - Plan Updates

***“Integration of Hazard Mitigation:** The updated plan must explain **how the jurisdictions incorporated the previous mitigation plan, when appropriate, into other planning mechanisms** over the last five years as a demonstration of progress....[and]...must continue to describe how the current mitigation strategy...will be incorporated into other planning mechanisms over the next five years....”*



## Plan Integration Worksheet #6

**Purpose of the Plan Integration Worksheet:** (see handout)

To ensure that every participating jurisdiction provides a comprehensive **evaluation of their progress in working toward each element of the Plan Integration Strategy that was set out in the last version of the plan**, and that the quantity and quality of this feedback is consistent from one jurisdiction to the next and is thorough enough to fulfill the Plan Integration requirement.



## Plan Integration Worksheet #6

### First Part

### Demonstration of Integration Progress - Last Planning Cycle

In the first component of this worksheet, we have reiterated the targeted plan integration activities that were included in the last version of the plan (Section 9, beginning on Page 9-4) in a tabular form, and are asking each community to describe their respective accomplishments since the plan was adopted five years ago.



## Plan Integration Worksheet #6

### First Part

(blue)

#### DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE

Please check all activities that your municipality has undertaken over the last five years.

1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?	
2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.	
B. Check here if your municipality does not have a master, general, or comprehensive plan.	
C. Check here if your master, general or comprehensive was updated since 2008.	
D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.	
E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.	
3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below.	
4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury).	
B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.	



# Plan Integration Worksheet #6

## First Part

(blue)

C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements. D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.	
E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).	
F. Check here if your community has joined the CRS since 2009.	
G. Check here if your community has dropped out of the CRS since 2009.	
5. A. Check here if your community has a local zoning ordinance. B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.	
6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities. B. If so, describe.	
7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation. B. If so, describe.	
8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding. B. Check here if capital or operating budgets already included this when the plan was first adopted.	
9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable). B. If so, describe.	
10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently). B. If so, describe.	
11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria. B. If so, describe.	
12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards. B. If so, describe.	



# Plan Integration Worksheet #6

## First Part

(blue)

13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe.	
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.	
15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	



## Plan Integration Worksheet #6 Second Part

(yellow)

### Targeted Plan Integration Activities - Next Planning Cycle

Similarly, in the second component of this worksheet, we have outlined a series of plan integration activities for the next five-year planning cycle, and have asked each community to document to FEMA the manner in which they are committing to integrate the hazard mitigation plan into local government operations from this point forward.



## Plan Integration Worksheet #6 Second Part

(yellow)

### TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE

Please check all activities that your municipality is committing to undertake over the next five years.

1.	CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	
2.	A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan. B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	
3.	Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	
4.	A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating). B. Enforce codes and standards beyond FEMA minimum requirements. C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	
5.	Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	
6.	Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	
7.	Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8.	Revise capital or operating budgets to include a line item for mitigation project funding.	
9.	Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	
10.	Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	
11.	Add hazard vulnerability to subdivision and site plan review criteria.	
12.	Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13.	Reach out to state agencies for assistance with natural hazard mitigation activities.	
14.	Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15.	Adopt (or continue to enforce) a local stormwater management plan/ordinance.	
16.	Protect life and property in high hazard areas by limiting densities of new development.	
17.	Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18.	Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	
19.	Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	
20.	Implement hazard mitigation activities through existing plans and policies.	
21.	Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	



## Mitigation Strategies

Hazard mitigation plans must include mitigation strategies:

- Specific actions that will be taken for natural hazard risk reduction
- Long-term blueprint for reducing the potential losses identified in the risk assessment
- Unique mitigation strategy for each community participating in the plan



## Mitigation Strategies

Mitigation strategies must include information regarding how each project will be implemented, including:

- By whom
- By when
- With what anticipated funding



## Mitigation Strategies – 2009 Plan

*Where were they in the document?*

In the 2009 Plan, jurisdiction-specific Mitigation Strategies were included in Appendix E.



## Mitigation Strategies – 2009 Plan

*Who developed the project lists?*

Your community did.

Action items included in the 2009 Plan were provided to URS by your Core Planning Group member (or their designee) at the time the plan was being developed.



## Status of Past Projects

### *What is required for the Plan Update?*

#### Plan updates must reflect progress in local mitigation efforts.

- Assess previous actions
- Evaluate progress in implementing each action
- Adjust actions to address current realities
- Describe any changes in local priorities



## Status of Past Projects (Worksheet #5)

#### Purpose of the Worksheet: (see handout)

To ensure that every participating jurisdiction provides a comprehensive **evaluation of their progress in implementing mitigation projects that were set out in the last version of the plan**, and that the quantity and quality of this feedback is consistent from one jurisdiction to the next and is thorough enough to fulfill the applicable requirements.



## Example: Aberdeen, 2009 Plan

IMPLEMENTATION STRATEGY								
(Name of Jurisdiction) <u>Aberdeen Township</u>								
Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (Indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	Create a mitigation outreach program that helps residents prepare for disasters.	All	Both	Office of Emergency Management	Local Emergency Planning Committee	2009	Minimal cost. Use existing resources.	Municipal operating budget
Medium	Develop specific mitigation solutions for flood-prone roadways, specifically State Highway 35 at Long Neck Creek, Lakeshore Drive and Greenwood Ave., and Amboy Ave., under the leadership of NJDOT. Develop a work plan for when sites will be surveyed and what role the local government play in selection and implementation of mitigation activities (e.g. any monetary or contextual support through the local capital improvement plan).	Flooding caused by floods, hurricanes, and nor'easters.	Existing	Township Manager, Township Engineer, NJDOT, Monmouth County Highway Dept.	Coordination with municipal, county, and state agencies. Plans for improvements to Highway 35 have been in development for many years.	Unknown	Unknown, although probably significant capital costs.	Combination of local, state, and county capital improvement budgets, plus grants if available.



## Example: Aberdeen, Worksheet #5

Jurisdiction	Mitigation Action	Priority	Hazard(s) Addressed	Responsible Party/Party to Implement	Status	Item Details	Reference	Reference Details
					Check Date	Item Details	Check Date	Reference Details
Aberdeen, Township of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan							
Aberdeen, Township of	Create a mitigation outreach program that helps residents prepare for disasters.	H	All	Office of Emergency Management				
Aberdeen, Township of	Develop specific mitigation solutions for flood-prone roadways, specifically State Highway 35 at Long Neck Creek, Lakeshore Drive and Greenwood Avenue, and Amboy Avenue, under the leadership of NJDOT. Develop a work plan for when sites will be surveyed and what role the local government play in selection and implementation of mitigation activities (e.g. any monetary or contextual support through the local capital improvement plan).	M	Flooding	Township Manager, Township Engineer, NJDOT, Monmouth County Highway Department				



## Upcoming Worksheets

*When will they be distributed? and due back?*

Worksheet	Targeted Distribution Date	Return Date
Outreach Log	July 2012	Oct. 21, 2013
1. Participation at the Local Level	Feb. 28, 2013	March 28, 2013
2. NFIP Worksheet	Feb. 28, 2013	March 28, 2013
3. Land Uses & Development Trends	March 28, 2013	April 29, 2013
4. Capability Assessment	March 28, 2013	April 29, 2013
5. Status of Past Projects Worksheet	May 13, 2013	June 13, 2013
6. Plan Integration Worksheet	May 13, 2013	June 13, 2013
7. STAPLEE Worksheet*	June 13, 2013	Oct. 21, 2013
8. Implementation Strategy Worksheet*	June 13, 2013	Oct. 21, 2013
9. Risk Reduction Worksheet*	June 13, 2013	Oct. 21, 2013

\* May be combined through use of a new FEMA form



## Common Issues with Incoming Worksheets To-Date

- Please answer each question. If you provided a response with blanks, please expect us to reach out to you. If you don't reply, please expect that your contribution could be returned by FEMA during their review.
- Please answer the question that is asked.
- Please don't provide answers that could raise unnecessary red flags. Think before you submit. (things like conflicting feedback on the same form, for example)
- Please make sure your community name, at a minimum, is on the first page of each submittal.







## Common Issues with Incoming Worksheets To-Date

- Worksheet 5 – Status of Past Projects** Biggest issue on the few already submitted is cells being left blank, esp. the one regarding how priorities have changed (blue row)

Activity	Priority/Order	Responsible Party/Person	Status	Notes	Other Info	Timeline	Remarks
<p><b>Worksheet 5 – Status of Past Projects</b></p> <p>Worksheet 5 – Status of Past Projects</p> <p>Worksheet 5 – Status of Past Projects</p>							
Worksheet 5 – Status of Past Projects	Worksheet 5 – Status of Past Projects	Worksheet 5 – Status of Past Projects	Worksheet 5 – Status of Past Projects	Worksheet 5 – Status of Past Projects	Worksheet 5 – Status of Past Projects	Worksheet 5 – Status of Past Projects	Worksheet 5 – Status of Past Projects



## Common Issues with Incoming Worksheets To-Date

- Worksheet 6 – Plan Integration** The few that have already been submitted are generally looking good.

DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE	TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE
<p>Please check all activities that your municipality has undertaken over the last five years.</p> <p>1. Check if you or your predecessor on the CPUC board would like to start or your community department heads to start their project and create opportunities for ongoing project collaboration planning, discussion on the CPUC website.</p> <p>2. Check if you or your predecessor on the CPUC board would like to start or your community department heads to start their project and create opportunities for ongoing project collaboration planning, discussion on the CPUC website.</p> <p>3. Check if you or your predecessor on the CPUC board would like to start or your community department heads to start their project and create opportunities for ongoing project collaboration planning, discussion on the CPUC website.</p> <p>4. Check if you or your predecessor on the CPUC board would like to start or your community department heads to start their project and create opportunities for ongoing project collaboration planning, discussion on the CPUC website.</p> <p>5. Check if you or your predecessor on the CPUC board would like to start or your community department heads to start their project and create opportunities for ongoing project collaboration planning, discussion on the CPUC website.</p> <p>6. Check if you or your predecessor on the CPUC board would like to start or your community department heads to start their project and create opportunities for ongoing project collaboration planning, discussion on the CPUC website.</p> <p>7. Check if you or your predecessor on the CPUC board would like to start or your community department heads to start their project and create opportunities for ongoing project collaboration planning, discussion on the CPUC website.</p> <p>8. Check if you or your predecessor on the CPUC board would like to start or your community department heads to start their project and create opportunities for ongoing project collaboration planning, discussion on the CPUC website.</p> <p>9. Check if you or your predecessor on the CPUC board would like to start or your community department heads to start their project and create opportunities for ongoing project collaboration planning, discussion on the CPUC website.</p> <p>10. Check if you or your predecessor on the CPUC board would like to start or your community department heads to start their project and create opportunities for ongoing project collaboration planning, discussion on the CPUC website.</p>	<p>Please check all activities that your municipality is committed to undertake over the next five years.</p> <p>1. Check if you or your predecessor on the CPUC board would like to start or your community department heads to start their project and create opportunities for ongoing project collaboration planning, discussion on the CPUC website.</p> <p>2. Check if you or your predecessor on the CPUC board would like to start or your community department heads to start their project and create opportunities for ongoing project collaboration planning, discussion on the CPUC website.</p> <p>3. Check if you or your predecessor on the CPUC board would like to start or your community department heads to start their project and create opportunities for ongoing project collaboration planning, discussion on the CPUC website.</p> <p>4. Check if you or your predecessor on the CPUC board would like to start or your community department heads to start their project and create opportunities for ongoing project collaboration planning, discussion on the CPUC website.</p> <p>5. 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Check if you or your predecessor on the CPUC board would like to start or your community department heads to start their project and create opportunities for ongoing project collaboration planning, discussion on the CPUC website.</p> <p>10. Check if you or your predecessor on the CPUC board would like to start or your community department heads to start their project and create opportunities for ongoing project collaboration planning, discussion on the CPUC website.</p>

### Status of Responses (as of 4:45pm, 6/5)

Due Date:	3/28/2015	3/28/2015	4/28/2015	4/28/2015	6/15/2015	6/15/2015
Worksheet Description:	JAT	NFP	LUIT	CA	Status of Past Projects	Integration
Municipality	Worksheet 1	Worksheet 2	Worksheet 3	Worksheet 4	Worksheet 5	Worksheet 6
Aberdeen, Township of	1	2	3	4		
Aberdeen, Borough of	1	2	3	4		
Allentown, Borough of	1	2	3	4	5	6
Andover Park, City of	1	2	3	4		
Atlantic Highlands, Borough of	1	2	3	4		
Avon-by-the-Sea, Borough of	1	2				
Barnegat, Borough of						
Bridle Beach, Borough of	1	2	3	4		
Brussels, Borough of	1	2	3	4		
Callie Neck, Township of						
Deal, Borough of	1	2	3	4		
Easton, Borough of	1	2	3	4		
Englishtown, Borough of	1	2	3	4		
Fair Haven, Borough of	1	2	3	4		
Farmingdale, Borough of	1					
Freehold, Borough of		N/A	3			
Freehold, Township of	1					
Hadon, Township of	1			4	5	6
Highlands, Borough of	1	2				
Holmdel, Township of	1	2				
Howell, Township of	1	2	3	4		
Iselin, Borough of	1	2	3	4		
Kearney, Borough of	1	2				
Keokuk, Borough of	1	2	3	4		
Lake Como, Borough of	1	2	3	4		
Little Silver, Borough of	1	2	3	4		
Lock Arbour, Village of	1	2	3	4		
Long Beach, City of	1	2	3	4		5
Mantoloking, Township of	1	2				
Massena, Borough of	1	2	3	4		
Marlboro, Township of	1	2				
Marlton, Borough of	1	2	3	4		
Middletown, Township of	1	2	3	4		
Milford, Township of	1	2	3	4		
Morristown Beach, Borough of	1	2	3	4		
Neptune, Township of	1	2	3	4		
Neptune City, Borough of	1	2	3	4		
Ocean, Township of	1	2	3	4		
Oceanport, Borough of	1	2	3	4		
Red Bank, Borough of	1	2				
Roseville, Borough of	1	2	3	4	N/A	5
Rumson, Borough of	1	2	3	4	5	6
Sea Bright, Borough of	1	2	3	4	5	
Sea Girt, Borough of	1	2	3	4		
Shrewsbury, Borough of	1	2	3	4		
Shrewsbury, Township of	1	N/A	3	4		
Spring Lake Heights, Borough of	1	2	3	4		5
Tinton Falls, Borough of						
Union Beach, Borough of	1	2				
Upper Freehold, Township of	1	2	3	4	5	6
Wall, Township of	1	2	3			
West Long Branch, Borough of	1	2	3	4		
COUNTY	1	N/A	N/A	4		



## Reminder: Continue Outreach to the Public and Other Stakeholders

- Discuss the plan update at regularly scheduled meetings of your local governing body
- Targeted outreach to key stakeholders in your community
- Put something on your community web site and/or Facebook page (etc. other social media)
- Publish in a local paper and/or newsletters
- Take advantage of distributing the Fact Sheet at local fairs/festivals this summer, and other regularly scheduled events where you may already have a booth (or similar).
- See Guidance Memo 1 for more info
- **Document your activities in the Outreach Log**





Questions?



Closing Remarks



## Contact Information

**MCOEM**

Michael Oppegaard  
moppegaard@mcsonj.org, 732-431-7400

Margaret Murnane Brooks  
mmurnane@mcsonj.org, 732-431-7400

**URS**

Anna Foley  
anna.foley@urs.com, 973-883-8562

Richard Franks  
richard.a.franks@urs.com, 973-883-8559

## **9 – Steering Committee Meeting, August 15, 2013**

- Sign-in sheet
- Agenda

Monmouth County  
 Mitigation Steering Committee Meeting 10:00 am  
 August 15, 2013  
SIGN-IN

Name: Sharon Rafles	Telephone: 732-431-7460 x7546
Agency and Address: Mon. Cty Community Development Hall of Records Annex Freehold	Fax: 732-308-2995
	Email: Sharon.Rafles@co.monmouth.nj.us
Name: Vicki Thompson	Telephone: 732-542-3630
Agency and Address: Mossy into Commission PO Box 162 Eatontown NJ 07724	Fax: 732-542-3267
	Email: victorie.thompson@co.monmouth.nj.us
Name: Mike Oppenard	Telephone:
Agency and Address: MCSO - JER	Fax:
	Email:
Name: Margaret Murnane Brooks	Telephone:
Agency and Address: MCOEM	Fax:
	Email:

Monmouth County  
 Mitigation Steering Committee Meeting 10:00 am  
 August 15, 2013  
SIGN-IN

Name: CATHY MOULDENHUYEN	Telephone: 609-649-3524
Agency and Address: NJSP OEM	Fax: 732-906-0085
	Email: LPP57SS@GN.NJSP.ORG
Name: BRAD WAUGH	Telephone: 609-439-8196
Agency and Address: NJSP OEM	Fax:
	Email: Cpp6433@GN.NJSP.ORG
Name:	Telephone: 732-904-3386
Agency and Address: Chas Rogers # MT O E M.	Fax: 732-615-9104
	Email: C.Rogers@middletonms.org
Name: JESSICA KUBIDA	Telephone: 732 431 7760 ext 6775
Agency and Address: MC Engineering	Fax:
	Email: jessica.kubida@comonmouth.nj.us

Monmouth County  
 Mitigation Steering Committee Meeting 10:00 am  
 August 15, 2013  
SIGN-IN

Name: Fred Passesso	Telephone: 732-431-7760 x 6690
Agency and Address: MC Engineer	Fax:
	Email: Fred.Passesso@co.monmouth.nj.us
Name: <del>Fred</del> Jenny Cevetello	Telephone: 732-431-8185
Agency and Address: M R N S A	Fax:
	Email: MANSANTGUMB@AOL.COM
Name: MARIANA LECKNOX	Telephone: 215-322-7275
Agency and Address: LELCC (Rep. POMM/SOACHANT) PA	Fax:
	Email: mariana@lecknerconsulting.com
Name: Joe BARRIS	Telephone: X 8544 732 431-7461
Agency and Address: MC Division of Planning	Fax:
	Email: Joe.BARRIS@CO.MONMOUTH.NJ.US

## AGENDA

Monmouth County Steering Committee

Mitigation Plan/Mitigation Grants

August 15, 2013 10:00 am

- 1) Introductions
- 2) NJSP OEM Mitigation/Mitigation Grants – Brad Waugh
  - a) HMGP - 4 sub programs
  - b) FMA/SRL/RFC
  - c) PDM
- 3) Overview of Mitigation plan update
  - a) CRS initiative - Joe Barris, MC Planning Bd.
  - b) County Mitigation Strategy
- 4) Questions/Comments/Discussion
- 5) Next meeting date
- 6) Adjourn

## 10 – CPG One-On-Ones

- Record of attendees

## CPG URS OneOnOnes 111413

On November 14, 2013 URS was available at MCOEM to meet one-on-one with any participating jurisdictions requesting assistance with providing feedback on the plan update worksheets. A total of four municipalities signed up, and attended morning time slots:

### SEA BRIGHT

Read Murphy, Emergency Manager  
Joseph Verruni, Manager/Administrator  
9am to 10am  
URS provided assistance with Worksheets 1 and 2

### MONMOUTH BEACH

Lori Thompson, T&M  
[name], T&M  
Susan Howard, Mayor  
10am to 11am  
URS Provided assistance with Worksheets 1, 2, 4, and 6

### INTERLAKEN

Lori Reibrich, Administrator  
11am to 12pm  
URS provided assistance with Worksheets 1, 2, 4, and 6

### COLTS NECK

Kevin Sauter, Emergency Manager  
12:30 to 1:00 pm  
URS provided assistance with Worksheets 1, 2, 4, 5, and 6  
*\* Note: Chief Sauter had a last minute conflict and attended by phone*

**11 – Steering Committee Meeting, 12/16/2013**

No sign-in sheet is available for this meeting.

## **12 – Joint CPG/Coordinators Meeting, February 18, 2014**

- Sign-in sheet, AM session
- Sign-in sheet, PM session
- PowerPoint presentation (used at both sessions)

**Coordinators Meeting  
February 18, 2014  
9:00**

**SIGN-IN**

Print Name: DeAnna Belgio	Municipality: RCPT/NJ DEM
Print Name: Kenneth Krohe	Municipality: Keyport DEM
Print Name: Tom Gallo	Municipality: Keyport DEM
Print Name: George Sappah	Municipality: Keyport DEM
Print Name: ED Kirschbaum	Municipality: NEPTUNE CITY DEM
Print Name: Lou TROCCHIO	Municipality: NEPTUNE CITY DEM
Print Name: Lindy Herrschatz	Municipality: Middletown DEM
Print Name: PAUL HABERMAN	Municipality: WEST LONG BEACH
Print Name: MICHAEL HARRIOTT	Municipality: UNION BEACH DEM
Print Name: BEN CHILCO	Municipality: AVON
Print Name: FRED HOPE	Municipality: LAKE COMO
Print Name: KEVIN KEOOY	Municipality: ASBURY PARK
Print Name: Garrett Giberson	Municipality: Asbury Park
Print Name:	Municipality:
Print Name:	Municipality:
Print Name:	Municipality:

Print Name: Stephen Fahnholz	Municipality: Bradley Beach
Print Name: John C. Hecchiott SR	Municipality: Union Beach
Print Name: Steve Kegelman	Municipality: Avenel
Print Name: Earl Alexander	Municipality: Deal-Interlaken
Print Name: RONEN NEUMAN	Municipality: DEAL - INTERLAKEN
Print Name: Kevin Stout	Municipality: MC OEM
Print Name: GARY Mc TIGHE	Municipality: MC OEM.
Print Name: Charles Shirley	Municipality: Long Branch OEM
Print Name: Rudolph TRASK	Municipality: EATONTOWN OEM
Print Name: William Webb	Municipality: EATONTOWN OEM
Print Name: Henry A. Strayker III	Municipality: FRANKLIN BOGART
Print Name: Tom BIEBEL	Municipality: VERIZON WIRELESS
Print Name: Anthony Javda	Municipality: Verizon Wireless
Print Name: James Barnes	Municipality: Verizon Wireless
Print Name: George GRAVATT Jr	Municipality: Howell Twp OEM
Print Name: Dan Harmon	Municipality: SEA GIRT OEM
Print Name:	Municipality:
Print Name:	Municipality:
Print Name:	Municipality:





**Coordinators Meeting  
February 18, 2014  
7:00 PM**

**SIGN-IN**

Print Name: Ed Kerr	Municipality: Spring Lake
Print Name: Kevin Sauter	Municipality: COLTS MCK TWP.
Print Name: Tom Horner	Municipality: HAZLET
Print Name: 7522 BALDWIN	Municipality: OSANGET
Print Name: Rick Derechaild	Municipality: ABERDEEN
Print Name: Ryan Kappos	Municipality: State OEM
Print Name: JERZY CHOJNACKI	Municipality: SHREWSBURY BOROUGH
Print Name: Dan Foglia	Municipality: Howell TWP
Print Name: Dan Dunn	Municipality: Shrewsbury Township
Print Name: JOSEPH WILBERT	Municipality: WALK TWP
Print Name: RICHARD FRANKS	Municipality: URS
Print Name: Pete Cooke	Municipality: Englishtown
Print Name: Jon Arnberg	Municipality: Englishtown
Print Name: Kevin DeLia	Municipality: NEPTUNE TOWNSHIP
Print Name: MIKE Dileo	Municipality: "
Print Name: Eugene P. Hannaday	Municipality: Monmouth County OEM



## Monmouth County Hazard Mitigation Plan Update

Core Planning Group Members Session  
at the  
Emergency Management Coordinators Meeting  
February 18, 2014

### CPG Meeting in November

- Core Planning Group members met in November with the consultant, who provided one-on-one assistance with providing outstanding feedback regarding:
  - Jurisdictional Assessment Team membership
  - Land Uses and Development Trends Updates
  - Capabilities Updates
  - Continued Compliance with the NFIP
  - Status of Past Projects
  - Plan Integration Activities

### Ongoing CPG Activities

- Outreach
  - Ongoing outreach to the public and other stakeholders
  - Using Guidance Memo 1 as a guide
  - Documenting activities in the Outreach Log
- Brainstorming about mitigation projects

### Plan Revisions

- Consultant continues to make revisions to the plan, with an eye toward streamlining and moving as much backup-type content as possible to appendices, which will be reproduced on CD instead of in hard copy

### Plan Revisions

- FEMA's recent release of Preliminary Flood Maps – we are in the process of incorporating these into the risk assessment

### PRIs and Hazard Rankings

- Priority Risk Indices (PRIs) and Hazard Rankings from the last version of the plan have been reevaluated
  - *Why is this important?* Improved rankings for use in mitigation strategy development

## PRIs and Hazard Rankings

- Priority Risk Indices (PRIs) are an evaluation of each hazard's relative risk based on its probability, impact, spatial extent, warning time, and duration.
- PRI scores are used to generate Hazard Rankings
  - PRI 0-2.3 = Low
  - PRI 2.4-2.9 = Medium
  - PRI 3.0-4.0 = High

## Key Risk Findings

- Key Risk Findings have been captured from various sections of the report, streamlined, and presented with the PRI results and Hazard Rankings
- Hazard area extent, examples of past damages and trouble spots, along with how fast population is growing and what recent land uses and development trends have been like.

## Why is this important?

- Last version of the plan:
  - Disconnect between risks and actions
  - Solutions didn't align with the problems that were discussed throughout the plan text
- This version of the plan:
  - We will help you make the connection between the **Problems** (Key Risk Findings) and the **Solutions** (the projects that make up your Mitigation Strategies)

## Why is this important?

- The updated PRIs and Hazard Rankings are more reflective of real-life conditions in each community.
- When viewed in conjunction with Key Risk Findings, municipalities have plan highlights in one place when developing projects.
- **Your mitigation strategies are the meat of the plan!**

## Mitigation Strategies

- Mitigation Strategy: Actions and projects to reduce risk
  - Robust strategy
  - Unique for each community
  - Addresses highest hazards and key risks

## Mitigation Strategies

- Updated Mitigation Strategies will consist of:
  1. OLD Worksheet 5 projects that are carrying forward  
.....and.....
  2. NEW projects you have identified



## Closing thoughts...

- FEMA's RAI Worksheet (we'll call it Worksheet 6) will need to be filled out for EACH project in your strategy
- Do not work in a bubble at this juncture; work with your local team!
- Get public input, and input from stakeholders.

## Questions?

## **13 - CPG Meeting, February 27, 2014**

- Sign-in sheet, 2pm session
- Sign-in sheet, 7pm session
- Agenda
- PowerPoint presentation



Monmouth County Multi-Jurisdictional Hazard Mitigation Plan  
 Plan Update CPG Meeting 5 - February 27, 2014 - Afternoon Session - 2pm  
 Monmouth County Communications Center, 1825 Route 33, Neptune, NJ

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Monmouth County Multi-Jurisdictional Hazard Mitigation Plan  
 Plan Update CPG Meeting 5 - February 27, 2014 - Afternoon Session - 2pm  
 Monmouth County Communications Center, 1825 Route 33, Neptune, NJ

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Monmouth County Multi-Jurisdictional Hazard Mitigation Plan  
 Plan Update CPG Meeting 5 – February 27, 2014 – Afternoon Session – 2pm  
 Monmouth County Communications Center, 1825 Route 33, Neptune, NJ

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			Mar 14 @ Monmouth	7-528-8788



Monmouth County Multi-Jurisdictional Hazard Mitigation Plan  
 Plan Update CPG Meeting 5 – February 27, 2014 – Evening Session – 7pm  
 Monmouth County Communications Center, 1825 Route 33, Neptune, NJ

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**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
**Core Planning Group Meeting #5**  
**February 27, 2014**  
**Afternoon Session 2pm; Evening Session 7pm**  
**Monmouth County Communications Center, 1825 Route 33, Neptune, NJ**

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**AGENDA**

- **Welcome and Opening Remarks**..... *Michael Oppegaard and Margaret Murnane Brooks, MCOEM*
- **Mitigation Strategy Overview and Goals for Today's Session**.....*Anna Foley, URS, Afternoon Session*  
*Richard Franks, URS, Evening Session*
- **Mitigation Strategy: Linking Problems With Solutions**.....*Anna Foley, URS, Afternoon Session*  
*Richard Franks, URS, Evening Session*
- **Priority Risk Indices, Hazard Rankings, and Key Risk Findings** .....*Anna Foley, URS, Afternoon Session*  
*Richard Franks, URS, Evening Session*
- **Documenting Your Projects Using Worksheet #7**.....*Anna Foley, URS, Afternoon Session*  
*Richard Franks, URS, Evening Session*
- **Reminder About Outreach** .....*Anna Foley, URS, Afternoon Session*  
*Richard Franks, URS, Evening Session*
- **Questions and Closing Remarks**.....*Michael Oppegaard and Margaret Murnane Brooks, MCOEM*
- **Adjourn**



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

**Core Planning Group Meeting #5**  
**February 27, 2014**  
**2:00 pm / 7:00 pm**  
**Monmouth County Communications Center, Neptune**



Multi-Jurisdictional Hazard Mitigation Plan Update  
 Monmouth County, New Jersey

URS  
 An Equal Opportunity/Affirmative Action Employer  
 Minorities and Women are Encouraged to Apply



## Today's Agenda

- \_\_\_\_\_ Welcome and Opening Remarks
- \_\_\_\_\_ Mitigation Strategy Overview and Goals for Today's Session
- \_\_\_\_\_ Mitigation Strategy: Linking Problems With Solutions
- \_\_\_\_\_ Priority Risk Indices, Hazard Rankings, and Key Risk Findings
- \_\_\_\_\_ Documenting Your Projects Using Worksheet #7
- \_\_\_\_\_ Reminder About Outreach
- \_\_\_\_\_ Questions and Closing Remarks
- \_\_\_\_\_ Adjourn



## Today's Mitigation Strategy Working Session

**We are here to:**

- Have interactive discussions
- Build on FEMA's Mitigation Strategy Workshop (April 2013)
- Help you
  - understand latest regulatory requirements
  - develop an updated mitigation strategy



## Today's Mitigation Strategy Working Session

**Goal:**

- For each community
- to develop a robust mitigation strategy
- that addresses its highest hazards and key risks
- Only then will we be able to achieve safer, more disaster-resistant and resilient communities



## What is a mitigation strategy?

**The mitigation strategy is:**

- Your community's hazard mitigation actions/projects
- The heart of the mitigation plan
- A roadmap for reducing the risk to your community from natural hazards



## Who prepares the mitigation strategy?

**Your mitigation strategy is developed by:**

- Your community's Jurisdictional Assessment Team
  - (the people you listed on Worksheet #1)
  - (many times: your LEPC members)
- With input from the public and key stakeholders



### Why update the mitigation strategy?

**Updates are done to:**

- Keep the plan current
  - Deleting completed projects
  - Adding new projects
  - Improving upon the overall approach to risk reduction
    - based on new information on potential risks
    - to bridge gaps in the prior approach



### ...Wait...we had gaps in the prior approach?

**Yes. Some of the solutions ultimately selected by many communities didn't align well with the problems that were discussed throughout the plan.**

- Coastal community subject to flooding, surge, high winds, erosion with actions focused on driving in winter weather conditions
- Communities with high wildfire risk and no corresponding actions



### Mitigation Strategy: Linking Problems With Solutions

Today's workshop is designed to help you make better connections between **Problems** (Key Risk Findings) and **Solutions** (the projects that make up your Mitigation Strategies).

*Keep In Mind: At the April 2013 Workshops, FEMA suggested focusing on fewer but better, more developed mitigation actions.*



### Mitigation Strategy: Linking Problems With Solutions

**Problems:**

- Highest Hazards
- Key Risk Findings

**Solutions:**

- Actions and projects that make up your Mitigation Strategy



### Mitigation Strategy: Linking Problems With Solutions

**Mitigation Strategy – Four Basic Steps**

1. Identify Highest Hazards
2. Understand Key Risks
3. Develop Projects to Solve the Problems \*
4. Complete One Worksheet #7 for Each Project
  - Assess the Risk
  - Describe the Action
  - Evaluate the Action (benefits, costs, etc.)
  - Implementation Information (priority, responsible party, etc.)
  - Reporting on Progress (if carryover from last version of the plan)

\* Developed by each JAT/LEPC, with input from the public and other stakeholders.



### Mitigation Strategy: Linking Problems With Solutions

**Step 1 – Problems – Identify Highest Hazards**

- County-wide, there are 16 hazards included in the plan
  - The subset of applicable hazards and the degree of risk posed by applicable hazards varies from one community to the next
- Therefore: we need a way to rank the hazards
- Hazard Rankings through Priority Risk Indices (PRIs)

### Mitigation Strategy: Linking Problems With Solutions

**Step 1 – Problems – Identify Highest Hazards**

- PRI = Sum of the weighted scores of five factors

$PRI = Probability(30\%) + Impact(30\%) + Extent(20\%) + WarningTime(10\%) + Duration(10\%)$

- Hazard Rankings based on PRI
  - PRI 0.0-2.3 = Low
  - PRI 2.4-2.9 = Medium
  - PRI 3.0-4.0 = High

### Mitigation Strategy: Linking Problems With Solutions

*\* Please refer to your handouts for your community's specific results*

### Mitigation Strategy: Linking Problems With Solutions

**Step 2 – Problems – Understand Key Risks**

*\* Please refer to your handouts for your community's specific results*

### Mitigation Strategy: Linking Problems With Solutions

**Step 3 – Solutions: Develop Projects to Solve the Problems**

- Updated Mitigation Strategies = Solutions to the Problems (actions and projects addressing the Highest Hazards and Key Risks)
  - OLD projects that are carrying forward (Worksheet 5) ...and...
  - NEW projects you have identified

### Mitigation Strategy: Linking Problems With Solutions

**Step 3 – Solutions: Develop Projects to Solve the Problems**

**What is Mitigation?**

Mitigation is any sustained action taken to reduce long-term risk to life and property from a hazard event.

- Mitigation: elevated house by the river
- Mitigation: property acquisition
- Preparedness & Response: purchase of a police command vehicle

*\* Slide from FEMA's April 2013 Workshop*

### Mitigation Strategy: Linking Problems With Solutions

**Step 3 – Solutions: Develop Projects to Solve the Problems**

**DISCUSSION: Which Actions are Mitigation?**

- Examine the actions in your latest plan
- Determine which actions are mitigation
  - Not preparedness or response
  - Not maintenance activities
  - Not stand-alone studies
  - Submitted plan should list mitigation actions together
- Q&A

*\* Slide from FEMA's April 2013 Workshop*

### Mitigation Strategy: Linking Problems With Solutions

**Step 3 – Solutions: Develop Projects to Solve the Problems**

- Excellent resource: FEMA's Mitigation Ideas



[www.fema.gov/media-library-data/20130726-1904-25045-2423/fema\\_mitigation\\_ideas\\_final\\_01252013.pdf](http://www.fema.gov/media-library-data/20130726-1904-25045-2423/fema_mitigation_ideas_final_01252013.pdf)

### Mitigation Strategy: Linking Problems With Solutions

**Step 3 – Solutions: Develop Projects to Solve the Problems**

- You must have a range of different categories of actions and projects to reduce the impacts of hazards in your community
  - Planning and Regulatory Solutions
  - Structure and Infrastructure Projects
  - Natural Systems Protection
  - Education and Awareness Programs
- Emphasis is required on new and existing buildings and infrastructure

### Mitigation Strategy: Linking Problems With Solutions

**Step 4 – Solutions: Document Your Projects on Worksheet #7**

- One Worksheet 7 for each project on your list



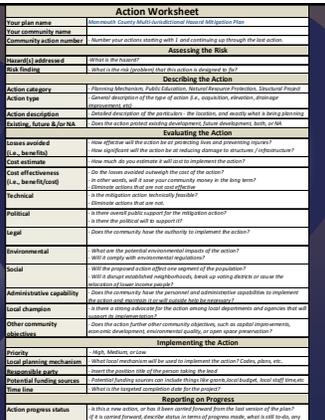
\* Handout from FEMA's April 2013 Workshop

### Mitigation Strategy: Linking Problems With Solutions

**\* EXCEL SUBMITTALS ONLY \***



\* Handout from FEMA's April 2013 Workshop



**Worksheet 7**  
**Fields Described**



**Worksheet 7**  
**Floodproofing Example**



## **14 – Steering Committee Meeting, March 11, 2014**

- Sign-in sheet



## **15 – FEMA Resilience Meeting, March 13, 2014**

- Sign-in sheet
- PowerPoint presentation



**MONMOUTH COUNTY  
RESILIENCE MEETING  
SIGN-IN SHEET**

March 13, 2014  
1:30 p.m.

PLEASE PRINT

Name	Title	Organization	Phone Number	Email Address
1. Joe Eppolito	DIRECTOR OF EMERGENCY MGT	NWS EARCE	732-866-2869	joseph.p.eppolito@nws.com
2. Dennis Blazak	Community Plans Liaison Officer	NWS Earle	732 866 2276	dennis.blazak@nws.com
3. Dennis Dayback	ENGINEER	TEAM ASSOCIATES BOROUGH OF UNION BEACH	732-671-6400	DDAYBACK@TEAMASSOCIATES.COM
4. Jennifer Garriga	GIS Specialist	Mon Co. Engineering	(732) 431-7708	Jennifer.garriga@monmouth.co.nj
5. Mary Tangelis	Flood Plain Mgr./ Zoning Off.	Boro of SeaBright	732 842- 0099 x 28	Seabrightflood Plain@yaho.com
6. ADAM HUBENY	ADMINISTRATOR OEM Coord	ATLANIC HIGHWAYS	732.291.1444 X301	AHUBENY@ATHNJ.COM



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8. Ryan Orgera	Preliminary Proj. Mgr	Urban Coast Inst.		
9. Diana Burch	W2 Program Coord / Prog. Assoc.	NJSGC	732-872-1300 x10	dbunch@njseagrant.org
10. Ken Spedding	Floodplain Management Specialist	FEMA		Kenneth.Spedding@fema.dhs.gov
11. Dennis Peras	FPM & Co. Rumson	Rumson	732 647 5480	dennis.peras@yahoo.com
12. Kimberly Jungst	Administrator	Boro of Little Silver	732-842-2400	kjungst@littlesilver.org
13. JESSICA KUBIDA	Env. Specialist	M.C. Engineering	732 431 7760	jessica.kubida@co.monmouth.nj.us
14. Gerry Scharfenberger	Director office for Planning Advocacy	Dept. of State	609 633 8301	gerard.scharfenberger@state.nj.us



FEMA



Name	Title	Organization	Phone Number	Email Address
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17. Dow CLARE	Construction Official	Munmouth Beach	732-687-3267	DoncHRE077SD@Comcast.net
18. Dan Barone	Geospatial Analyst	Stockton College		baoned@stockton.edu
19. Janace Morgan	Technical Asst. Const. Dir Boro of Lake Como		609-652-4248 732-681-3839 ext. 918	jmorgan@lakecomo.nj.us
20. Kevin Nugent	Principal Engineer II	Munmouth County	732-431-7760 x7756	Krugent@co.munmouth.nj.us
21. THOMAS SETH		FEMA		
22. Sara Margolis	Hazard Mitigation Planner	FEMA RSC (dewberry)		smargolis@dewberry.com



FEMA



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27. Dan Gky	Pls Mgr	MS OFM	20265 7718	
28. Brittany Ashman	Assistant Planner	MC Planning	732 432-7460	Brittany.Ashman & CO. monmouth.nj.us
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FEMA



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33.				
34.				
35.				
36.				
37.				
38.				



# Monmouth County, NJ Coastal Hazard Analysis Resilience Meeting

March 13, 2014

**RiskMAP**  
Increasing Resilience Together



# Purpose of Resilience Meeting

**To continually build local capacity for  
implementing mitigation actions  
within Hudson County**

# Objectives of the Resilience Meeting

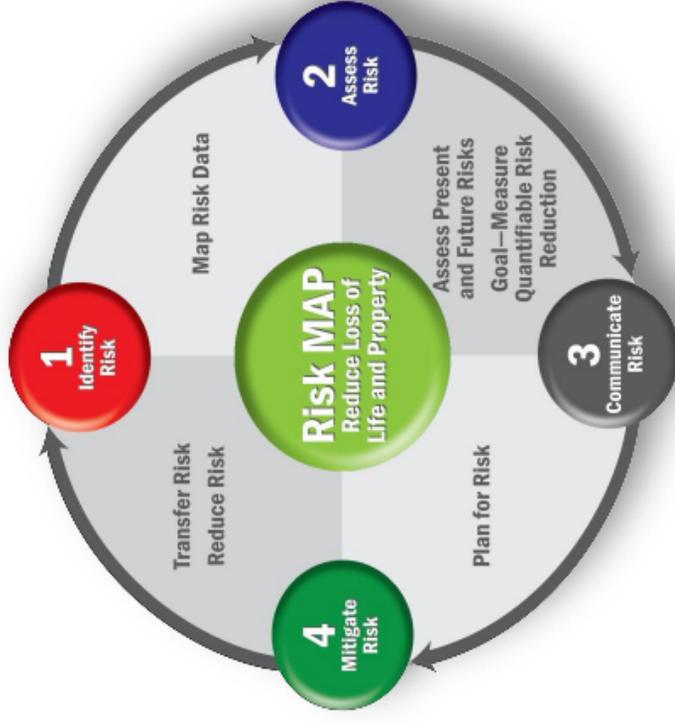
- Build more local capacity for implementing mitigation actions
- We are here to assist Monmouth County in:
  - Using flood map products to develop new strategies to reduce your risk
  - Understanding the resources available to help you implement those strategies
  - The importance of and opportunities for communicating flood risk to your constituents
- This will provide you the opportunity to more fully develop your mitigation actions for your Hazard Mitigation Plan.

# Agenda for today

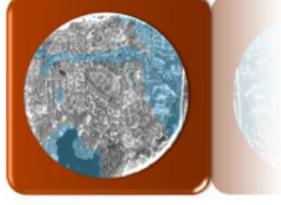
- Risk MAP Program/Overview of Risk Communication
- Hazard Mitigation Planning and Action
- Overview of Non-Regulatory Flood Risk Products and Datasets, and Example Actions
- Breakout Group Sessions
- Regroup: Discuss Feedback and Mitigation Actions

# FEMA's Risk MAP Program

- Risk Mapping, Assessment and Planning 2010 - 2014
- Builds on Map Mod digitized Flood Insurance Rate Map (FIRM) successes
- Will deliver quality data that **increase public awareness and lead to action that reduces risk to life and property**
- Regulatory Products: Flood Insurance Study (FIS) and FIRM (Coastal re-mapping)
- New Non-Regulatory Products and Datasets



**M**apping **A**ssessment **P**lanning

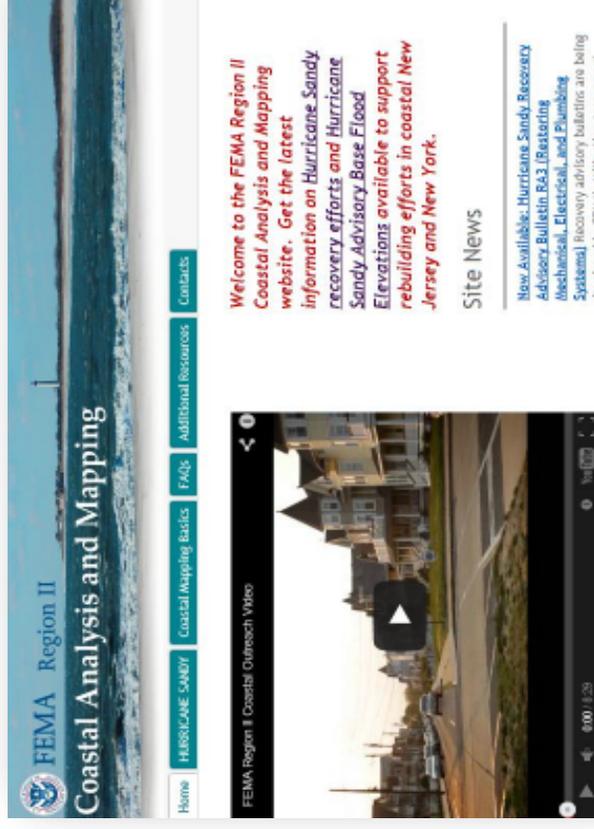


# Risk Communications

- **Federal/State/Local goals:**
  - Creating safer communities reducing risk to lives and property
  - Effectively communicate risk and increase public awareness, leading citizens to make informed decisions regarding risk
- **Key factors contributing to successful achievement of these goals are:**
  - Community engagement and exchange of flood risk information
  - Effective collaboration through partnerships
  - Strategic communications plan development

# Risk Communications - Resources

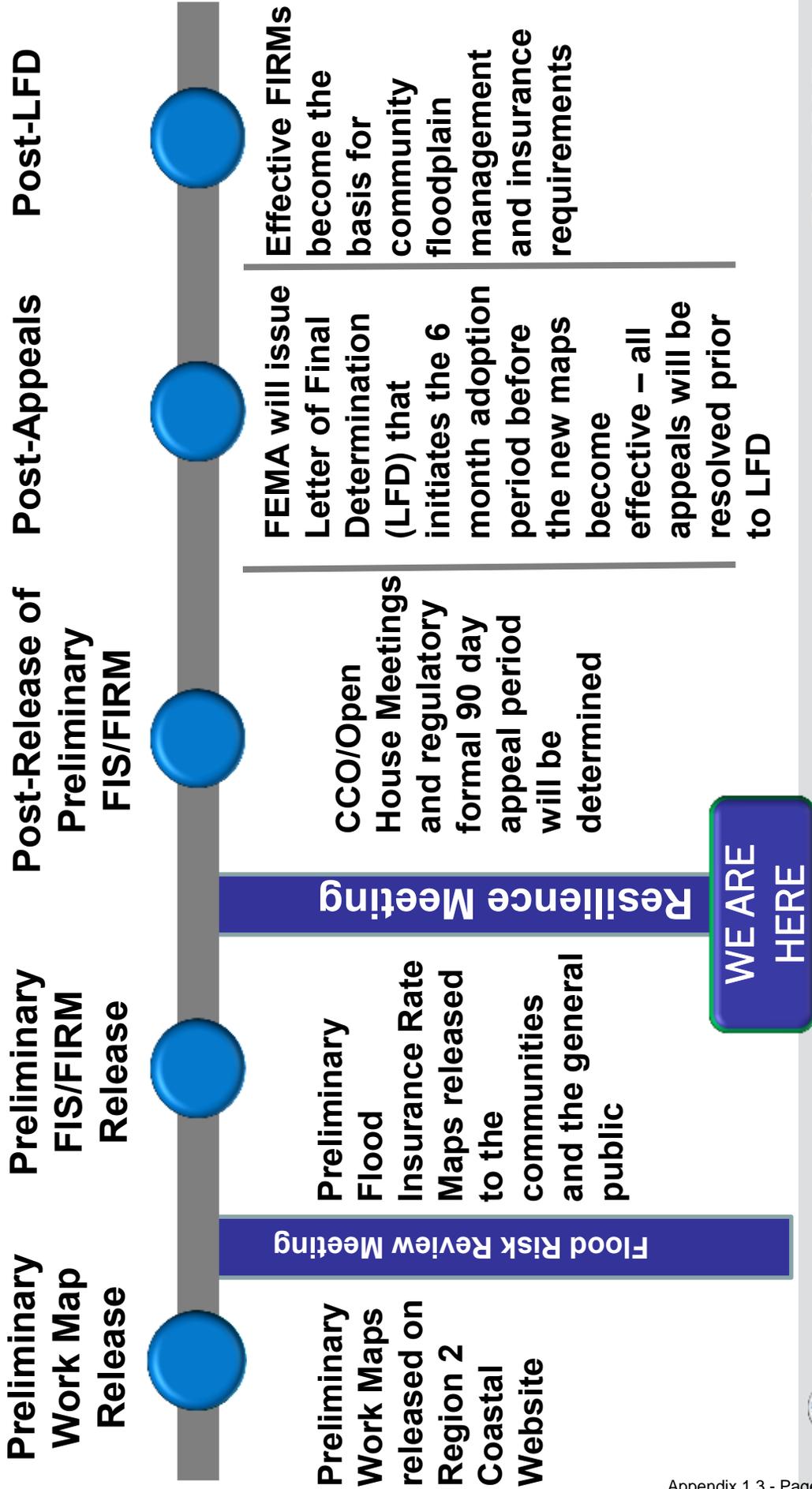
- Visit our Website: [www.region2coastal.com](http://www.region2coastal.com)
- Outreach factsheets
- Frequently Asked Questions
- Coastal Risk Educational Videos
- Most recent flood hazard information (Preliminary FIRMs)
- Non-Regulatory Products and Datasets



# Timeline for Monmouth County – Past

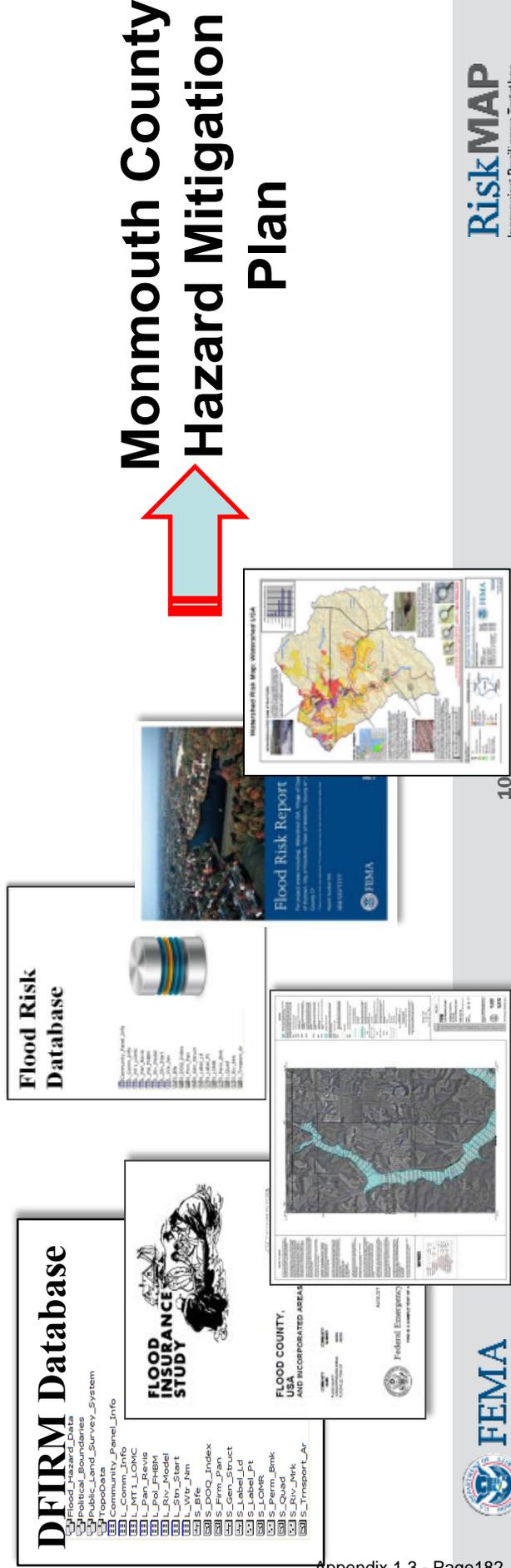
- **NJ/NYC Coastal Flood Risk Study – started in 2009**
- **Meetings with local officials:**
  - Coastal Study Update Webinar – August, 2010
  - Introduction to Risk MAP – July, 2011
  - Hazard Mitigation Planning – December, 2011
  - Risk Assessment – February, 2012
- **Post-Sandy:**
  - ABFEs – December, 2012
    - Multiple meetings with local officials and public
  - Preliminary Work Maps – June, 2013
    - Webinar with local officials

# Timeline for Middlesex County – Future

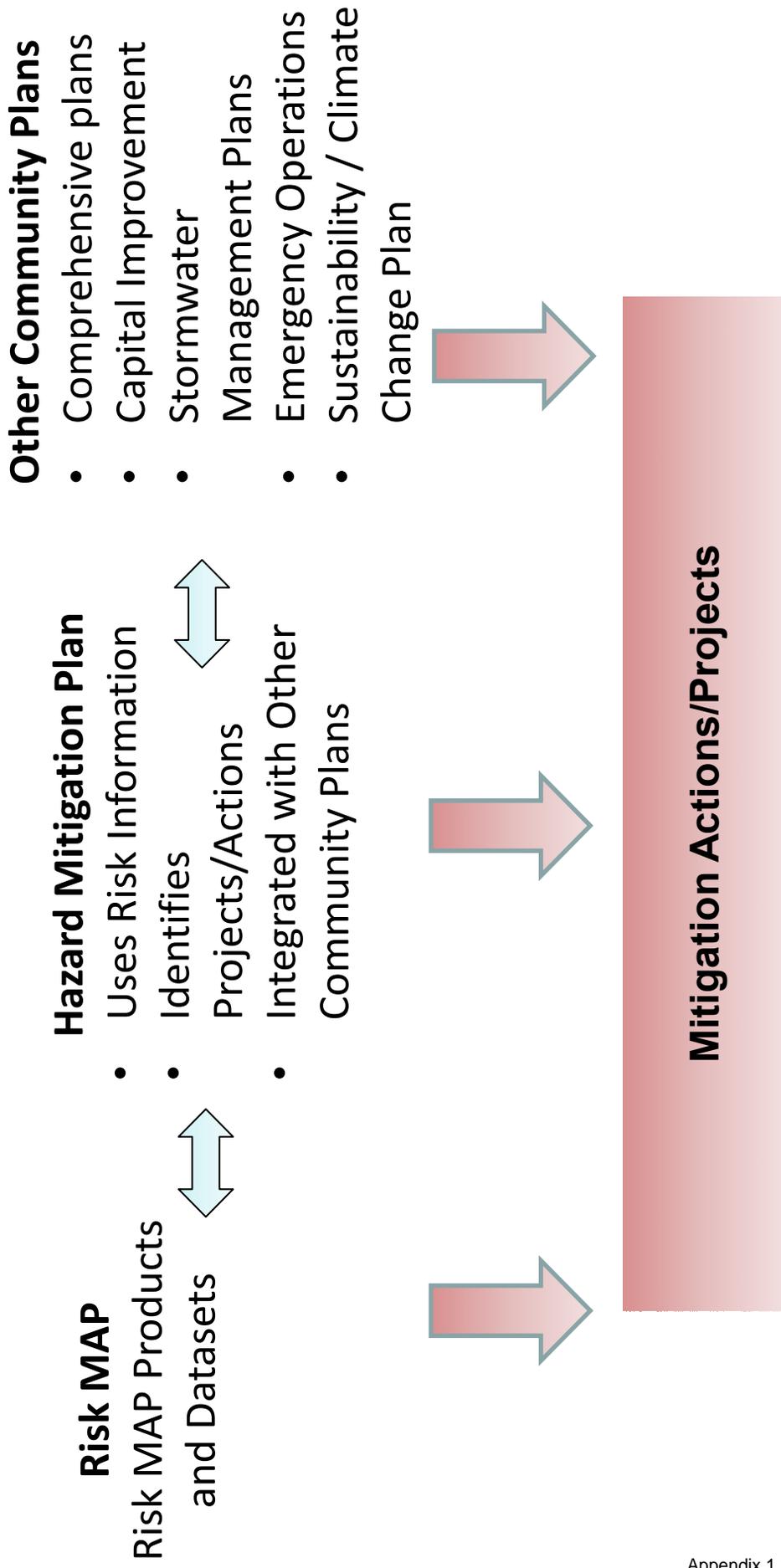


# Hazard Mitigation Planning

- Hazard Mitigation is defined as any sustained **action taken to reduce or eliminate long-term risk** to life and property from hazards
- Use new Risk MAP information to help with identifying mitigation actions when updating your Hazard Mitigation Plan



# Local Hazard Mitigation Plans (HMPs)



# Mitigation Actions – Types, Examples



## STRUCTURE AND INFRASTRUCTURE PROJECTS

- Acquisition
- Elevation
- Retrofits
- Drainage



## LOCAL PLAN AND REGULATIONS

- Zoning
- Building Codes
- Ordinances
- Open Space Plan



## COMMUNITY IDENTIFIED PROGRAMS

- Firewise
- StormReady
- NFIP
- CRS



## NATURAL SYSTEM PROTECTION

- Stream and wetland restoration
- Erosion control

# Mitigation Actions and HMA

- To be eligible for FEMA/State funding, mitigation actions must be in your Hazard Mitigation Plan
- There must be consistency between the projects identified in the Letters of Intent (LOIs) and planning documents
- Utilize non-regulatory flood risk tools to make informed decisions

# Mitigation Actions – Examples

## **Actions from 2009 plan (County actions):**

- Regional stormwater management – identify and prioritize critical stream segments and receiving water bodies most often flooded; develop and secure permits to clean, dredge, widen and otherwise improve water flow to reduce flooding impacts and flooded areas.
- Purchase of flood prone properties: Acquisition and deed restriction of properties Monmouth County and locally active conservation organizations have identified for preservation which are located in flood prone areas.
- Upgrade critical county roads and bridges impacted by flooding

# Mitigation Actions – Examples

## **Actions from 2009 HMP (municipal actions):**

- Avon by the Sea – Evaluate vulnerabilities of existing emergency facilities including the Municipal building (police and fire HQ), First Aid Building and water treatment plant.
- Borough of Deal – Set up detention pond and berm system to prevent future flooding for Popular Brook
- Borough of Keansburg – Enact hazard zoning ordinances
- Borough of Keyport – Raise Green Grove Avenue at Chingarora Creek culvert crossing to alleviate storm flooding
- Lake Como – Enact hazard zoning/ordinances on height of homes in flood areas to place foundations above flood plain

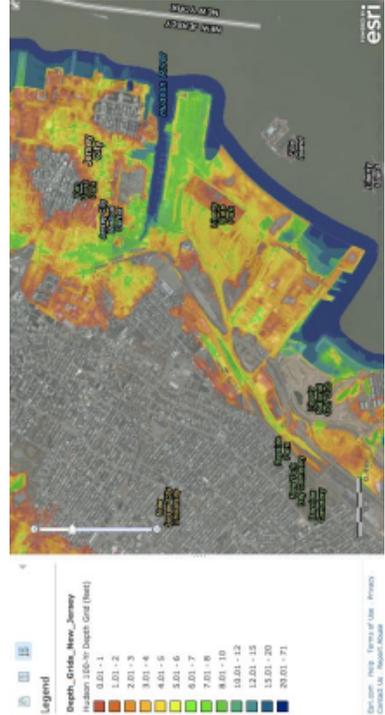
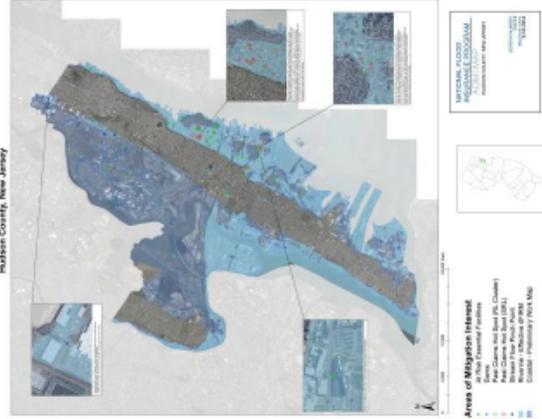
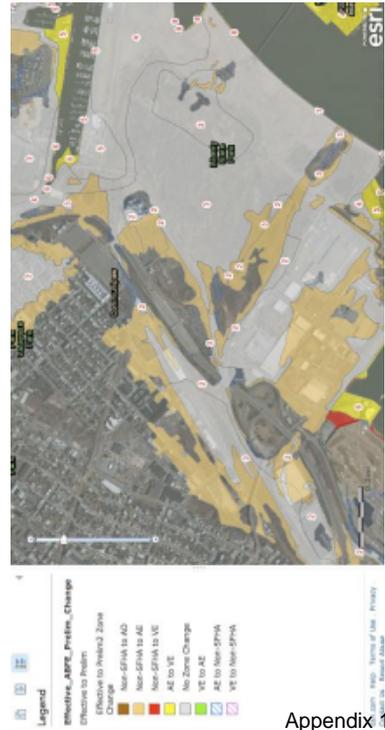
# Mitigation Actions – Examples

## Other Mitigation Ideas:

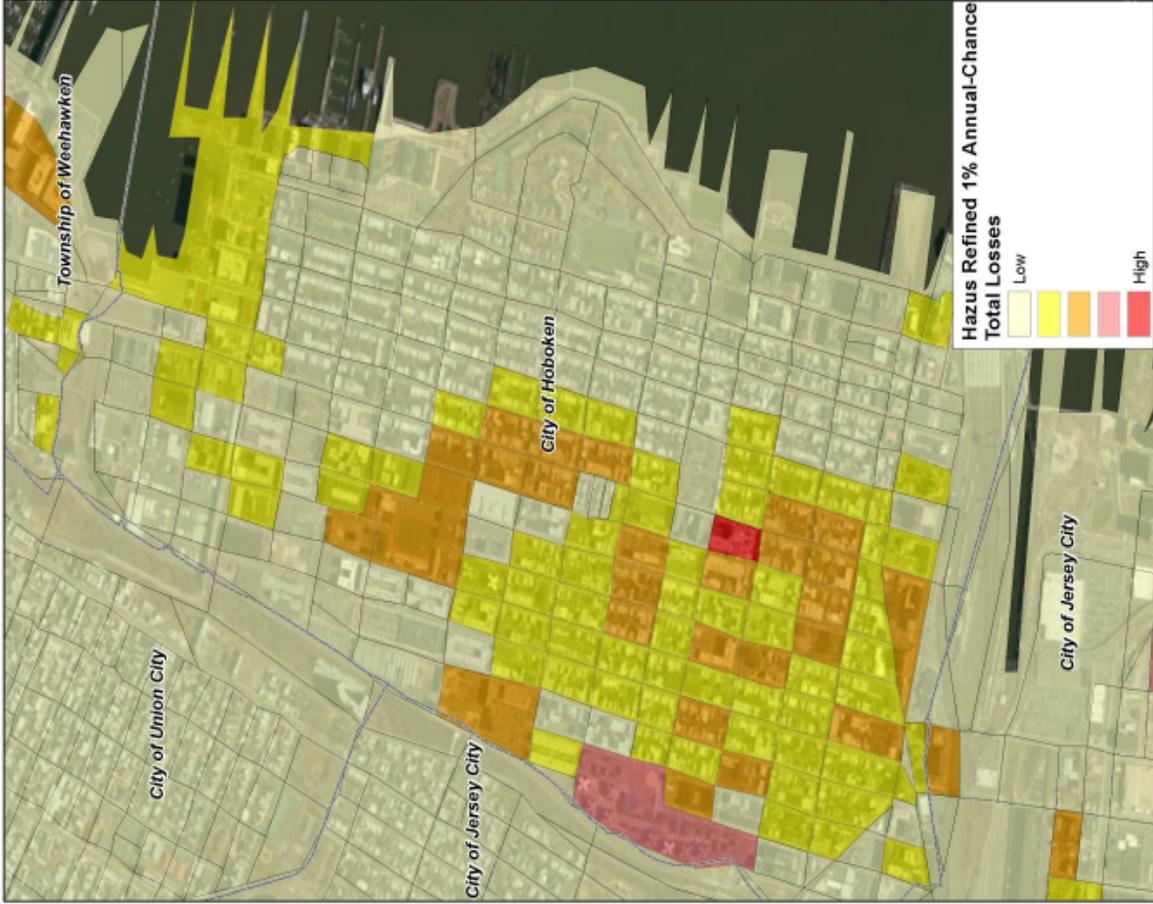
- Installing a storm drain backflow apparatus
- Training and/or coordination of technical skills and capabilities
  - E.g. Hazus or GIS capabilities
- Creative efforts to reduce local water volume putting less strain on storm sewer systems
  - Open space acquisitions
  - Conversion of brown space to open space
  - Retention measures (Green roofs, rain barrels, permeable pavement, etc)
- Evaluate considerations/options of how to provide access to elevated structures for elderly or disabled citizens
- Procuring parking locations or sites for citizen parking before a storm

# Coastal Flood Risk Datasets

- Flood Risk Datasets provided at the Flood Risk Review meeting:
  - Changes Since Last FIRM (CSLF)
  - Coastal 1% Depth Grid
  - Areas of Mitigation Interest (AOMI)



# Coastal Flood Risk Assessments – Hoboken Estimated Potential Losses



# Coastal Flood Risk Assessments – Hoboken Estimated Potential Losses

City of Hoboken - Estimated Potential Losses for Flood Event Scenarios (2010 AAL)												
	Total Inventory		10% (10-yr)		2% (50-yr)		Refined 1% (100-yr)		0.2% (500-yr)		Annualized (\$/yr)	
	Estimated Value	% of Total	Dollar Losses <sup>1</sup>	Loss Ratio <sup>2</sup>								
Residential Building and Contents Losses	\$3,874,860,000	59%	N/A	N/A	\$271,200,000	8%	\$741,700,000	19%	\$665,100,000	18%	\$8,700,000	< 1%
Commercial Building and Contents Losses	\$2,079,000,000	31%	N/A	N/A	\$201,400,000	7%	\$458,400,000	22%	\$409,100,000	17%	\$5,600,000	< 1%
Other Building and Contents Losses	\$660,770,000	10%	N/A	N/A	\$77,800,000	10%	\$156,100,000	24%	\$147,600,000	20%	\$2,100,000	< 1%
Total Building and Contents Losses <sup>3</sup>	\$6,614,630,000	100%	N/A	N/A	\$550,400,000	12%	\$1,356,200,000	21%	\$1,221,800,000	22%	\$16,400,000	< 1%
Business Disruption <sup>4</sup>	N/A	N/A	N/A	N/A	\$16,700,000	N/A	\$23,900,000	N/A	\$26,500,000	N/A	\$300,000	N/A
TOTAL <sup>5</sup>	\$6,614,630,000	N/A	N/A	N/A	\$567,100,000	9%	\$1,380,100,000	21%	\$1,248,300,000	19%	\$16,700,000	< 1%

Note: HAZUS analyses are based on using the latest risk factors applied to Census 2000 Housing Data



# Coastal Flood Risk Assessments – *Mitigation Actions*

- Helps local officials identify where risk reduction efforts may produce the highest return on investment
- Quantifies potential losses from floods on the built environment
- Shows details of potential flood losses of critical facilities
- Assists with the prioritization of mitigation areas, and could also be incorporated into a focused sustainability effort
- Providing potential flood event scenarios with dollar damages for properties makes the risk more tangible and helps address the concerns/criticisms expressed by local stakeholders



# Coastal Increased Inundation Areas Jersey City

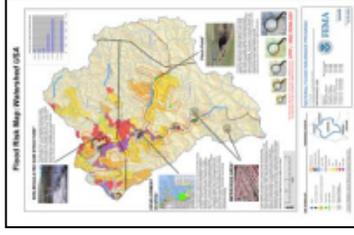
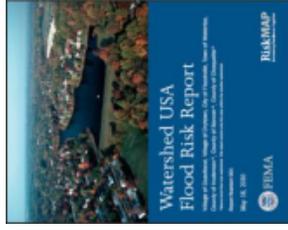
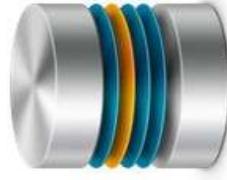
- If flood levels exceed the currently estimated 1-percent-annual-chance levels for City of Jersey City by as little as **1-2 feet**:
  - An additional **1.3 square miles** of residentially developed area would be at risk of flooding
  - An additional **809 structures** would also be at risk of flooding

# Coastal Increased Inundation Areas - *Mitigation Actions*

- **Contributes to a better understanding of current and possible future flood risk in your community**
- **Leads to more informed decisions to allow suitable and appropriate development in higher risk areas**
- **Let's you see the horizontal impacts of the hypothetical rises of the water surface**
- **Floodplain managers could use this data for advising the local elected officials to consider adopting more freeboard in the local floodplain ordinance**
- **Could be used to advise property owners that are within the increased inundation areas to consider purchasing a Preferred Risk Flood Insurance policy**



# Non-Regulatory Coastal Flood Risk Products and Datasets



- **Flood Risk Products**
  - Flood Risk Report, Map, and Database
- **Flood Risk Datasets**
  - Will be stored in the Flood Risk Database

# Breakout Groups

Group 1:

Group 2:

Group 3:

# Regroup

- Share feedback and mitigation actions
  - What did you learn during the breakout session?
  - What types of new mitigation actions did you identify? What existing resources can you utilize to implement these actions?
  - What are three actions you personally will take to encourage development or implementation of flood mitigation strategies?

# Conclusion: Community Resilience



***Together, we all can create stronger and safer communities***

# Resources

- Region 2 Coastal Flood Study Information:  
[www.Region2Coastal.com](http://www.Region2Coastal.com)
- FloodSmart (official site of NFIP):  
[www.floodsmart.gov](http://www.floodsmart.gov)
- New Jersey DEP: <http://www.nj.gov/dep/ec/>
- Mitigation Ideas: A Resource for Reducing Risk to Natural Hazards:  
<http://www.fema.gov/media-library/assets/documents/30627?id=6938>

# FEMA



# FEMMA

**16 – Steering Committee Meeting, April 3, 2014**

No sign-in sheet is available for this meeting.

## **17 – Joint CPG/Coordinators Meeting, July 10, 2014**

- Sign-in sheet, 10am session
- Sign-in sheet, 7pm session

Monmouth County Municipal OEM Coordinator Meeting

7/10/2014 10:00am

Sign-In Sheet

<u>Name (please print)</u>		<u>Municipality</u>
Paul Murphy	O	Highlands
Robert Miller	HAW ✓ D	MAUNSDON
Chris Cherbin	✓ D	Mar/boro
Chas Rogers	✓	Shiddletown OEM
PETER MEME	✓	SPRING LAKE
PATRICK SCHELLERT	—	WOB/STATE
John HARRIST	✓ D	UB OEM
MIG HARRIST	✓	UB OEM
Steve Kegelman	✓	Avon OEM
Roy Piccolini	✓	Freehold Twp
KEAD MURPHY	✓	SEA BRIGBT OEM
Daniel Dunn	O	Shrewsbury Twp OEM
Jeff Jarvis	✓	Fair Haven

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Monmouth County Municipal OEM Coordinator Meeting

7/10/2014 10:00am

Sign-In Sheet

Name (please print)	Municipality
THOMAS NICOL <small>Partner D</small>	BRICE
KEVIN SARTIN O	COLTS Neck Twp.
MICHAEL PALMER ✓	BUCKLE
GROUETT M. BIRSSON O	ABSUCY PARK
LOUIS TROCENZO ✓	NEPTUNE CITY
LEN GUYO ✓	BANDY BEACH
STEF FOLYBIL ✓	BROOKLYN BEACH
NORMAN GOLDFARB D	" "
GEORGE BACHAN D	" "
RIK DEECHAILO O	ABERDEEN TWP
THOMAS V. FALCO ✓	MATHAWAN
JERZY CHOJNACKI ✓	SURENSBURY BORO
MICHAEL BASSON ✓	NEPTUNE TWP

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Monmouth County Municipal OEM Coordinator Meeting

7/10/2014 10:00am

Sign-In Sheet

Name (please print)	Municipality
Ken Kobe	Keyport
Tom Gallo	Keyport
Dave Kircher	Manasquan
Tom Cars	Ocean Township
Micky DeBey	Fair Haven
Earl Alexander	Deal / Interlaken
Burr Balarza	Oceanport
Jenl Krauth	MCHP
Michelle Menditto	MCHD
Dan CHERMAISIAN	SEA BRUM
Henry Steyker III	Freehold Borough
George Gravatt Jr	Howell Twp & Farmingdale
William J. JOHNSON	M.C. RECLAMATION

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Monmouth  
County Municipal  
OEM Coordinators  
meetings

Sign-in  
7/10/2014

Sheet  
10:00am

40	31	Michael Frazee	✓	RED BANK
41	32	DIMOTHY HAMMON	○	SEA GIRT
42	33	Bruce Hill	✓	MAN/SHORE TWP
43	34	DAVID BOEMNING	○	TINTON FALLS
44	35	Jeff Morrell	✓	Manalapan Twp.
45		STUART NEUMAN	—	MC SH COOKED
46		Robin Heston	—	NJDEP
47		Tom Byrne	—	NJDEP
48		HENRY STEYER	—	FREELHOLD BOROUGH
49		JOE WAGNER	✓	WALL TWP
50				

Monmouth County Municipal OEM Coordinator Meeting

7/10/2014 7:00pm

Sign-In Sheet

<u>Name (please print)</u>	<u>Municipality</u>
REN CILINO	Avon
Tom HARVEZ	Hackett
JORD ARBURG	English town
Cathy Murphy	Spring Lake Heights
Tom Rogers	Rumson
Jim Marky	SCL
PATRICK SCHLESERT	MOUNTAIN STATE PA
RJ WAGNER	NJDEM
Tammy Michitsch	Matawan
Richard Michitsch	Matawan
Tom Ren	Ocean Twp
Charles Shurtley	Long Branch
James Pearson	Keppert

Monmouth County Municipal OEM Coordinator Meeting

7/10/2014 7:00pm

Sign-In Sheet

<u>Name (please print)</u>	<u>Municipality</u>
ROBERT BRICE	WALL TPA

## **18 – Steering Committee Meeting, December 5, 2014**

- Sign-in sheet



MONMOUTH COUNTY

OFFICE OF THE COUNTY ENGINEER

Date: Dec 5, 2014

Sign-In Sheet

PROJECT: MCDEM Draft Hazard Mit. Plan Update



NAME	AFFILIATION / Email	PHONE NUMBER
Jessica Kubida	Mc Engineering jessica.kubida@co.monmouth.nj.us	732 431-7760 ext 6775
John Tabia	McPiorE jtabia@co.monmouth.nj.us	732 683-8788
Inkyung Englehart	Mc Engineering inkyung.englehart@co.monmouth.nj.us	732-431-7760
Margaret Murnane	MCDEM mmurnane@mcsonj.org	732 431 7400 x5798
Ming Kao	Mc Engineering mkao@co.monmouth.nj.us	732-431-7760
Joseph Ettore	MCED jettore@co.monmouth.nj.us	732-431-7760 ext 7772
Daria Jakimowska	MCED daria.jakimowska@co.monmouth.nj.us	— a — ext 7768

**APPENDIX 1.4 – WORKSHEET 2: NFIP PARTICIPATION**



Name: John Quinn \_\_\_\_\_ Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: Aberdeen Twp. \_\_\_\_\_ Email and Phone: 732-583-4200 ext 121  
 john.quinn@aberdeennj.org \_\_\_\_\_

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
8/4/2009	8/21/1985	Construction Official	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):							
The NFIP administration services provided are permit review, GIS, education, outreach, and inspections.							
Describe barriers to running an effective NFIP program in the community (if applicable):							
Residents who are not insured and unable to obtain financial aid to enable them to satisfy any flood hazard mitigation requirements.							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
January 2013	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes* <input type="checkbox"/> No * Class <u>9</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):							
None							
Provide an explanation of your local floodplain permitting process:							
The applicant provides all floodplain documentation for review before issuance of any development, zoning, or construction permits.							



Name: John Quinn Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: Aberdeen Twp. Email and Phone: 732-583-4200 ext 121  
 john.quinn@aberdeennj.org

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? [X]   Yes     No	Does your community intend to initiate/continue the buyouts of repetitive loss properties?     Yes   [X]   No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? X   Yes     No	Does your community intend to provide local outreach to promote the sale of flood insurance? [X]   Yes     No	Does your community intend to participate in RiskMAP meetings and planning initiatives? [X]   Yes     No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? [X]   Yes     No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? [X]   Yes     No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? [X]   Yes     No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? [X]   Yes     No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? [X]   Yes     No		As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan? [X]   Yes     No		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? [X]   Yes     No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009?     Yes *   [X]   No		
* If you answered "yes", that there have been changes to your local program since 2009, please describe:  N/A								
Provide a description of your community assistance and monitoring activities:  The Township operates an office of emergency management to coordinate and assist in any recovery efforts when necessary. We are also in the process of further developing the Township's hazard mitigation plan.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement?  [X]   Yes     No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement?  [X]   Yes     No				
Note: NFIP policy statistics by community are maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ">http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ</a> NFIP claims data by community is maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1040.htm#34">http://bsa.nfipstat.fema.gov/reports/1040.htm#34</a> Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan. All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.								



Name: Robert Richter Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: Borough of Allenhurst Email and Phone: copnj1301@yahoo.com 732-531-0630

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
2013	3/15/79	Borough Engineer	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):							
The NFIP administration services are permit review, GIS, education, outreach and inspections.							
Describe barriers to running an effective NFIP program in the community (if applicable):							
NONE							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or scheduled needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
3/5/2013	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No @BFE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* *Class_____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):							
NONE							



Name: Robert Richter Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: Borough of Allenhurst Email and Phone: copnj1301@yahoo.com 732-531-0630

<b>Provide an explanation of your local floodplain permitting process:</b>									
<b>Applicants provide floodplain documentation when applicable before review and issuance of permits or development.</b>									
Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? [ x ] Yes     No	Does your community intend to initiate/continue the buyouts of repetitive loss properties?   x     Yes     No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future?     Yes   x   No	Does your community intend to provide local outreach to promote the sale of flood insurance?     Yes   x   No	Does your community intend to participate in RiskMAP meetings and planning initiatives?     Yes   x   No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.?   x   Yes     No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding?   x   Yes     No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events?   x   Yes     No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority?   x   Yes     No	Does your community intend to update/revise their floodplain management ordinance to be consistent with the latest FEMA regulations. Will your community continue to commit to this program requirement?   x   Yes     No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations?   x   Yes     No									
Does your community intend to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement?   x   Yes     No									
Does your community intend to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement?   x   Yes *     No									
* If you answered "yes", that there have been changes to your local program since 2009, please describe:  The Borough is adopting a new flood plain ordinance.									
Provide a description of your community assistance and monitoring activities:  The Borough operates an Office of Emergency Management to coordinate and assist in any recovery efforts when necessary.									
NFIP participating communities are required to update/revise their floodplain management ordinance to be consistent with the latest FEMA regulations. Will your community continue to commit to this program requirement? NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement?   x   Yes     No									

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: Mayor Stuart A. Fierstein Title: OEM Coordinator  
 Representing: Borough of Allentown Email and Phone: copiriteinc@optimum.net Tel# 609.259.3151

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?
January 2010	9/16/81	Mayor Stuart A. Fierstein, OEM Coordinator	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):						
Development permit applications are filed with the Municipal Planning and Zoning Board and reviewed in accordance with Borough code Chapter XXVII – Flood Damage Prevention. Outreach program includes creation of a Mailer to all residents and businesses describing actions underway and proposed Hazard Mitigation strategies. Hazard Mitigation brochures are provided at the Borough Municipal Building. Inspection activities include pre and post storm event inspections of critical infrastructure by Borough representatives including licensed water system and sanitary sewer system operators, Construction Code Official, Borough Public Works and Borough Engineer's Office. Borough Engineers office and Construction Code Officials are trained in construction practices related to buildings and infrastructure; and understand natural and/or human caused hazards. All development activities require compliance inspections by the Borough Engineer's Office and Construction Code Official. The Borough conducts Flood Damage Protection ordinance development and review.						
Describe barriers to running an effective NFIP program in the community (if applicable):						
There are no barriers identified at this time that would impact the implementation of NFIP program requirements.						
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
None	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
* Describe any outstanding compliance issues (i.e., current violations):						
N/A						
Provide an explanation of your local floodplain permitting process:						
Development applications are filed with the Municipal Planning and Zoning Board for proposed development activities including division of land into two (2) or more parcels or lots, proposed construction, reconstruction, conversion, structural alteration, relocation or enlargement of any building or structure, and any change in use of any building or other structure, or land or extension of use of land, including alteration to a site. Duties of the Planning and Zoning Board include review of development permits to determine that the permit requirements of the Borough code Chapter XXVII – Flood Damage Prevention are satisfied and determination if all necessary permits have been obtained from Federal, State or local government agencies.						



Name: Mayor Stuart A. Fierstein Title: OEM Coordinator  
 Representing: Borough of Allentown Email and Phone: copiriteinc@optimum.net Tel# 609.259.3151

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? [X] Yes     No	Does your community intend to initiate/continue the buyouts of repetitive loss properties?     Yes [X] No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? [X] Yes     No	Does your community intend to provide local outreach to promote the sale of flood insurance? [X] Yes     No	Does your community intend to participate in RiskMAP meetings and planning initiatives?     Yes [x] No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? [X] Yes     No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding?     Yes [X] No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? [X] Yes     No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority?     Yes [X] No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? [X] Yes     No								
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? [X] Yes     No								
As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan? [X] Yes     No								
As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? [X] Yes     No								
Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009?   Yes *   x   No								
* If you answered "yes", that there have been changes to your local program since 2009, please describe: Propose modifications to the Borough's Implementation Strategy to include mitigation action items for flooding hazards to critical infrastructure and utilities.								
Provide a description of your community assistance and monitoring activities: Outreach program includes creation of a Mailer to all residents and businesses describing actions underway and proposed Hazard Mitigation strategies. Hazard Mitigation brochures are provided at the Borough Municipal Building. The Borough has implemented a flood mitigation strategy to educate residents about flood hazards and coordinate assistance before, during and after events, coordinated by the OEM and Deputy OEM.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? [X] Yes     No								
NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? [X] Yes     No								

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: Joe Cunha Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: Asbury Park Email and Phone: 732-775-0900 Joe.Cunha@cityofasburypark.com

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
9/2/09	2/15/79	Joe Cunha, City Engineer / DPW Director	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):							
Permit review includes impacts on construction due to Floodplain proximity, inspections include sensitivity to storm drain connections and conditions of known localized flooding.							
Describe barriers to running an effective NFIP program in the community (if applicable):							
Community participation is low due to minimal impacts from Sandy on residential neighborhoods. Informing the public adequately seems to pose a challenge.							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or scheduled CAC needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
None Yet	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* * Class _____	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):							
None to report at this time.							
Provide an explanation of your local floodplain permitting process:							
Floodplain process is as dictated in the City's local ordinance. When an applicant submits a permit request to the Construction Department, one of the checks is to determine if the property is within the floodplain. Based upon this determination, additional scrutiny may or may not be required with respect to elevations of proposed improvements.							



Name: Joe Cunha Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: Asbury Park Email and Phone: 732-775-0900 Joe.Cunha@cityofasburypark.com

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does your community intend to initiate/continue the buyouts of repetitive loss properties? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to provide local outreach to promote the sale of flood insurance? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does your community intend to participate in RiskMAP meetings and planning initiatives? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to implement programs in coordination with a local or regional drainage/sewer authority? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? <input type="checkbox"/> Yes <input type="checkbox"/> No								
As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No								
As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No								
* If you answered "yes", that there have been changes to your local program since 2009, please describe:  No changes since 2009.								
Provide a description of your community assistance and monitoring activities:  We are awaiting any residents seeking permits for rebuilding via contact with our Construction Department as there have not yet been any to date								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: Joseph Kachinsky Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Atlantic Highlands Email and Phone:

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
3/27/2013	8/3/1981	Construction Official	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):							
Zoning and Construction review to insure NFIP Compliance							
Describe barriers to running an effective NFIP program in the community (if applicable):							
N/A							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes*   <input checked="" type="checkbox"/> No* * Class _____	<input type="checkbox"/> Yes   <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):							
All floodplain construction is required to obtain zoning and construction permits to insure compliance with local, state and federal regulations							
Provide an explanation of your local floodplain permitting process:							



Name: Joseph Kachinsky Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Atlantic Highlands Email and Phone:

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to initiate/continue the buyouts of repetitive loss properties? <input type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to provide local outreach to promote the sale of flood insurance? <input type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to participate in RiskMAP meetings and planning initiatives? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? <input type="checkbox"/> Yes <input type="checkbox"/> No		As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? <input type="checkbox"/> Yes <input type="checkbox"/> No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
* If you answered "yes", that there have been changes to your local program since 2009, please describe:  New ordinance adopted Participated in the development of the plan yes								
Provide a description of your community assistance and monitoring activities:  Assist residents performing construction and improvements in the SFHA. Continue to advise and encourage residents to purchase flood insurance.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? <input type="checkbox"/> Yes <input type="checkbox"/> No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? <input type="checkbox"/> Yes <input type="checkbox"/> No				

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: Richard Conners Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Borough of Avon-by-the-Sea Email and Phone: code.avonbythesea@gmail.com - 732-502-4510

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	7-27-2009	Date of Entry into NFIP	2-22-79	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Building Inspector	Is this person is a Certified Floodplain Manager?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is floodplain management an auxiliary function?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is your community in good standing with the NFIP?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):															
Permit review, GIS, education or outreach, inspections and meetings with residents															
Describe barriers to running an effective NFIP program in the community (if applicable):															
None.															
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	November, 2012	Is a CAV or CAC scheduled or needed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is training of staff regarding NFIP issues planned?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Does your community participate in the CRS? If so, state your Class.	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* *Class_____	Does your community intend to continue its participation in the CRS program?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):															
Flood Plain Manager and Office of Emergency Management continue to work with non-compliant into compliance.															
Provide an explanation of your local floodplain permitting process:															
All substantial improvement must provide elevation certificate to ensure compliance prior to a permit being issued and new construction requires elevations to be shown on all drawings submitted for review. Post construction on all substantial improvement and new construction must provide an elevation certificate prior to a Certificate of Occupancy is issued.															



Name: Richard Conners Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Borough of Avon-by-the-Sea Email and Phone: code.avonbythesea@gmail.com - 732-502-4510

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? [X] Yes     No	Does your community intend to initiate/continue the buyouts of repetitive loss properties?     Yes   X   No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? [X] Yes     No	Does your community intend to provide local outreach to promote the sale of flood insurance? [X] Yes     No	Does your community intend to participate in RiskMAP meetings and planning initiatives? [X] Yes     No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? [X] Yes     No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? [X] Yes     No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? [X] Yes     No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? [X] Yes     No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations?     Yes   X   No		As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan?   Y   Yes     No		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? [X] Yes     No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009?     Yes *   X   No		
* If you answered "yes", that there have been changes to your local program since 2009, please describe: N/A								
Provide a description of your community assistance and monitoring activities:								
The Borough of Avon has one full time personnel who oversee all development in the Borough and one additional person to assist with Floodplain Administration.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? [X] Yes     No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? [X] Yes     No				
<p>Note: NFIP policy statistics by community are maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1">http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1</a>  NFIP claims data by community is maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1040.htm#34">http://bsa.nfipstat.fema.gov/reports/1040.htm#34</a>  Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.</p>								



Name: Ted Bianchi Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: Belmar Email and Phone: 732-681-3700

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
March 2013	1972	Floodplains Manager	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):							
Plan review, Inspections, Outreach, GIS							
Describe barriers to running an effective NFIP program in the community (if applicable):							
N/A							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
2008	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes* <input type="checkbox"/> No * Class_8__	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):							
None							



Name: Ted Bianchi Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: Belmar Email and Phone: 732-681-3700

Provide an explanation of your local floodplain permitting process:										
Proposed development is required to fill out SFHA Development Permit which is reviewed.										
Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? [ x ] Yes     No	Does your community intend to initiate/continue the buyouts of repetitive loss properties?	Does your community intend to commit staff or resources to improve local mapping or code administration in the future?	Does your community intend to provide local outreach to promote the sale of flood insurance?	Does your community intend to participate in RiskMAP meetings and planning initiatives?	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.?	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding?	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events?	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority?		
[ x ] Yes     No	[   ] Yes [ x ] No	[ x ] Yes     No	[ x ] Yes     No	[ x ] Yes     No	[ x ] Yes     No	[ x ] Yes     No	[ x ] Yes     No	[ x ] Yes     No		
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? [ x ] Yes     No	As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan?			As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update?		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009? [ x ] Yes *     No				
[ x ] Yes     No	[ x ] Yes     No			[ x ] Yes     No		[ x ] Yes *     No				
* If you answered "yes", that there have been changes to your local program since 2009, please describe:										
Adopted ABFE Maps.										
Provide a description of your community assistance and monitoring activities:										
We cooperate with State and FEMA NFIP officials.										
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement?					NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement?					
[ x ] Yes     No					[ x ] Yes     No					

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: **KENNETH A. TRIANO** Title: **Floodplain Manager/Floodplain Administrator/NFIP Coordinator**  
 Representing: **BOROUGH OF BRADLEY BEACH** Email and phone: **\_\_ktriano@bradleybeachnj.gov 732-776-2999 X1016**

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - **NFIP Worksheet**

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
09/08/2009	1995	Kenneth A. Triano	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):							
Based on ABFE, Bradley Beach now has SFHA where X zone only existed. Properties have been identified and notification is underway							
Describe barriers to running an effective NFIP program in the community (if applicable):							
N/A							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulation in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
Unknown	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No * Class <u>7</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	N/A   Yes   No

\* Describe any outstanding compliance issues (i.e., current violations):

NONE

Provide an explanation of your local floodplain permitting process:

All applications in SFHA are reviewed for compliance with: DEP requirements, local ordinance and Uniform Construction Code



Name: **KENNETH A. TRIANO** Title: **Floodplain Manager/Floodplain Administrator/NFIP Coordinator**  
 Representing: **BOROUGH OF BRADLEY BEACH** Email and phone: **\_\_ktriano@bradleybeachnj.gov 732-776-2999 X1016**

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates?   X   Yes     No	Does your community intend to initiate/continue the buyouts of repetitive loss properties?     Yes   X   No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future?   X   Yes     No	Does your community intend to provide local outreach to promote the sale of flood insurance?     Yes   X   No	Does your community intend to participate in RiskMAP meetings and planning initiatives?   X   Yes     No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.?   X   Yes     No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding?   X   Yes     No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events?   X   Yes     No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority?   X   Yes     No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations?   X   Yes     No		As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan?   X   Yes     No		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update?   X   Yes     No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009? Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009?     Yes *   X   No		
* If you answered "yes", that there have been changes to your local program since 2009, please describe:  There have been no changes.								
Provide a description of your community assistance and monitoring activities:  Borough operates Office of Emergency Management. Construction office monitors structures in SFHA and provides information.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement?   X   Yes     No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement?   X   Yes     No				

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJT>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: Sandy Ratz Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Borough of Brielle Email and Phone: 732-449-3252 x5 construction@springlakeboro.org

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?
2013	1998	Construction Official	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):						
Permit reviews and inspection						
Describe barriers to running an effective NFIP program in the community (if applicable):						
Lack of staff and funding for staffing and staff training						
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
During Storm Sandy	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):						
None at this time.						
Provide an explanation of your local floodplain permitting process:						
Development application filed with Construction Official (CO). Application to include location/dimensions/elevations (w/r/t MSL) for ex. And proposed structures, fill, storage and drainage facilities. Application reviewed by CO for ordinance conformance and other permits that may be required.						



Name:     Sandy Ratz     Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Borough of Brielle Email and Phone: 732-449-3252 x5 construction@springlakeboro.org

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates?     Yes   x   No	Does your community intend to initiate/continue the buyouts of repetitive loss properties?     Yes   x   No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future?   X   Yes     No	Does your community intend to provide local outreach to promote the sale of flood insurance?   x   Yes     No	Does your community intend to participate in RiskMAP meetings and planning initiatives?   x   Yes     No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.?   x   Yes     No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding?   x   Yes     No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events?   x   Yes     No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority?   x x   Yes     No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations?     Yes   Yes     No	As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan?     Yes   x   No	As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update?     Yes   x   No	Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009?     Yes *   x   No					
* If you answered "yes", that there have been changes to your local program since 2009, please describe:								
n/a								
Provide a description of your community assistance and monitoring activities:								
Periodic inspection by CO and other personnel of development projects, and verification of construction through as-built surveys prior to Cert. of Occ. issuance.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement?   x   Yes     No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement?   x   Yes     No				
<p>Note: NFIP policy statistics by community are maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1">http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1</a>  NFIP claims data by community is maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1040.htm#34">http://bsa.nfipstat.fema.gov/reports/1040.htm#34</a>  Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.</p>								



Name: Thomas Frank Title: Floodplain Administrator

Representing: Colts Neck Township Email and Phone : [coltsneckhd@optonline.net](mailto:coltsneckhd@optonline.net) 732-462-5470 ext. 109

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
2009	4/27/1989	Health Officer	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):							
The NFIP administration services provided include permit review, education and outreach to township residents.							
Describe barriers to running an effective NFIP program in the community (if applicable):							
Fully knowledgeable staff; make FEMA's web site for searching if a property is in the floodplain more user friendly (zooming in and out; printing copies of a section of a map)							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
Not Known	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2ft > BFE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No * Class _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
* Describe any outstanding compliance issues (i.e., current violations):							
NONE							
Provide an explanation of your local floodplain permitting process:							
The applicant provides all necessary floodplain documentation as part of a subdivision review to ensure all newly proposed lots are out of the 100 year floodplain.							



Name: Thomas Frank

Title: Floodplain Administrator

Representing: Colts Neck Township

Email and Phone : [coltsneckhd@optonline.net](mailto:coltsneckhd@optonline.net)

732-462-5470 ext. 109

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? <input type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to initiate/continue the buyouts of repetitive loss properties? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to provide local outreach to promote the sale of flood insurance? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to participate in RiskMAP meetings and planning initiatives? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No								
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No								
As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No								
* If you answered "yes", that there have been changes to your local program since 2009, please describe:  N/A								
Provide a description of your community assistance and monitoring activities:  The Township provides assistance to residents via the use of the FEMA FIRM maps in determining if a property is located in the 100 year floodplain. We also produce copies of tax maps regarding a specific property and any other information necessary to apply for a letter on map amendment. We also initiated a filing system to monitor properties that have been removed from the SFHA for use by other residents, as reference documents. NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: \_\_\_\_\_ Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: \_\_\_\_\_ Email and Phone: \_\_\_\_\_

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - **NFIP Worksheet**

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

#### BOROUGH OF DEAL

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?
2009	3/6/1976	James Rogers	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):						
The NFIP administration services provided are permit review, GIS, education, outreach and inspections.						
Describe barriers to running an effective NFIP program in the community (if applicable):						
N/A						
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	1/2013	Is a CAV or CAC scheduled or needed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is training of staff regarding NFIP issues planned?
		Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community participate in the CRS? If so, state your Class.	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* *Class _____	Does your community intend to continue its participation in the CRS program?
		Does your community intend to continue to improve local mapping and/or code administration?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does your community intend to continue to improve local mapping and/or code administration?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does your community intend to continue to improve local mapping and/or code administration?
*Describe any outstanding compliance issues (i.e., current violations):						
N/A						
Provide an explanation of your local floodplain permitting process:						
Applicant shall apply for a development permit prior to any construction or development that is to take place in any area of special flood hazard as per Ordinance section 19-3-2.						



Name: \_\_\_\_\_ Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: \_\_\_\_\_ Email and Phone: \_\_\_\_\_

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? <input type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to initiate/continue the buyouts of repetitive loss properties? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? <input type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to provide local outreach to promote the sale of flood insurance? <input type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to participate in RiskMAP meetings and planning initiatives? <input type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? <input type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? <input type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? <input type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? <input type="checkbox"/> Yes <input type="checkbox"/> No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? <input type="checkbox"/> Yes <input type="checkbox"/> No		As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan? <input type="checkbox"/> Yes <input type="checkbox"/> No		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? <input type="checkbox"/> Yes <input type="checkbox"/> No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009? <input type="checkbox"/> Yes * <input checked="" type="checkbox"/> No		
* If you answered "yes", that there have been changes to your local program since 2009, please describe:								
Provide a description of your community assistance and monitoring activities:								
Provide assistance to residents in determination of base flood and flooding data. Provide internet link to county website with mitigation plan information. Post public mitigation plan fact sheet in municipal building.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? <input type="checkbox"/> Yes <input type="checkbox"/> No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? <input type="checkbox"/> Yes <input type="checkbox"/> No				

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: P. Jerry Applegate Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: Eatontown Email and CO@eatontownnj.com  
 Phone: \_\_\_\_\_

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?
8-19-2009	9/16/81	Construction Official	Yes <input checked="" type="checkbox"/>   No	X   Yes     No	X   Yes     No	X   Yes     No
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):						
Permits, Reviews and Inspections						
Describe barriers to running an effective NFIP program in the community (if applicable):						
None at this time						
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?
April 2013	Yes <input checked="" type="checkbox"/>   No	Yes <input checked="" type="checkbox"/>   No	Yes <input type="checkbox"/>   No	X   Yes     No	Yes*   X   No * Class _____	Yes <input checked="" type="checkbox"/>   No
*Describe any outstanding compliance issues (i.e., current violations):						
We will continue to enforce the floodplain management thru Borough Ordinances						
Provide an explanation of your local floodplain permitting process:						
permit submitted- Review by Zoning and Building Official prior to review by C.O.						



Name: P. Jerry Applegate Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Eatontown Email and CO@eatontownnj.com

Phone: \_\_\_\_\_

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? [ x ] Yes     No	Does your community intend to initiate/continue the buyouts of repetitive loss properties?     Yes [ x ]   No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? [ x ] Yes     No	Does your community intend to provide local outreach to promote the sale of flood insurance?     Yes [ x ]   No	Does your community intend to participate in RiskMAP meetings and planning initiatives?     Yes [ x ]   No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? [ x ] Yes     No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? [ x ] Yes     No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? [ x ] Yes     No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? [ x ] Yes     No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? [ x ] Yes     No		As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan?     Yes [ x ]   No		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update?     Yes     No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009?     Yes *   x   No		
* If you answered "yes", that there have been changes to your local program since 2009, please describe:								
We are in the process of updating our ordinances to become compliant with the NFIP								
Provide a description of your community assistance and monitoring activities:								
Current administrator surveys the town during inspections and reviews all new construction plans to make sure compliance is met.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? [ x ] Yes     No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? [ x ] Yes     No				

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: Thomas J Herits PE PP PLS, Borough Engineer Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Borough of Englishtown Email and Phone: therits@maserconsulting.com

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	07/22/09	Date of Entry into NFIP	03/15/81	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Borough Engineer	Is this person is a Certified Floodplain Manager?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is floodplain management an auxiliary function?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is your community in good standing with the NFIP?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):															
<u>Engineer reviews and inspects all Joint Planning and Zoning Board applications for flood plain compliance</u>															
Describe barriers to running an effective NFIP program in the community (if applicable):															
<u>N/A</u>															
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	<u>N/A</u>	Is a CAV or scheduled or needed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is training of staff regarding NFIP issues planned?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community participate in the CRS? If so, state your Class.	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No * Class _____	Does your community intend to continue its participation in the CRS program?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):															
Provide an explanation of your local floodplain permitting process: <u>The Borough Zoning Ordinance has placed any property in the floodplain or wetlands to be in the CON (Conservation Zone), which is open space. Expansion of any existing project in the floodplain requires NJDEP approval.</u>															



Name: Thomas J Herits PE PP PLS, Borough Engineer Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Borough of Englishtown Email and Phone: therits@maserconsulting.com

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? [ ] Yes [ <input checked="" type="checkbox"/> ] No	Does your community intend to initiate/continue the buyouts of repetitive loss properties? [ ] Yes [ <input checked="" type="checkbox"/> ] No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? [ <input checked="" type="checkbox"/> ] Yes [ ] No	Does your community intend to provide local outreach to promote the sale of flood insurance? [ <input checked="" type="checkbox"/> ] Yes [ ] No	Does your community intend to participate in RiskMAP meetings and planning initiatives? [ ] Yes [ <input checked="" type="checkbox"/> ] No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? [ <input checked="" type="checkbox"/> ] Yes [ ] No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? [ ] Yes [ <input checked="" type="checkbox"/> ] No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? [ <input checked="" type="checkbox"/> ] Yes [ ] No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? [ ] Yes [ <input checked="" type="checkbox"/> ] No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? [ <input checked="" type="checkbox"/> ] Yes [ ] No		As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan? [ ] Yes [ <input checked="" type="checkbox"/> ] No		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? [ <input checked="" type="checkbox"/> ] Yes [ ] No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009? [ ] Yes [ <input checked="" type="checkbox"/> ] No		
* If you answered "yes", that there have been changes to your local program since 2009, please describe:								
Provide a description of your community assistance and monitoring activities:								
<u>The Borough completed FEMA application to raise a dwelling flooded by Hurricane Irene.</u>								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? [ <input checked="" type="checkbox"/> ] Yes [ ] No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? [ <input checked="" type="checkbox"/> ] Yes [ ] No				
Note: NFIP policy statistics by community are maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1">http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1</a> NFIP claims data by community is maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1040.htm#34">http://bsa.nfipstat.fema.gov/reports/1040.htm#34</a> Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan. All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.								



Name: **JOSEPH MCGOVERN** Title: **Floodplain Manager/Floodplain Administrator/NFIP Coordinator**  
 Representing: **BOROUGH OF FAIR HAVEN** Email and [jmcgovern@fhboro.net](mailto:jmcgovern@fhboro.net) Phone: **732-747-0241** x324

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
8/40/09	10/16/79	Rich Gardela Borough Engineer	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):							
Permit review, inspections by building dept and Borough engineers							
Describe barriers to running an effective NFIP program in the community (if applicable):							
n/a							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
Unknown	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* *Class_____	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):							
none							
Provide an explanation of your local floodplain permitting process:							
After applying for permit Borough Engineer reviews application before approval							



Name: JOSEPH MCGOVERN Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: BOROUGH OF FAIR HAVEN Email and [jmcgovern@fhhboro.net](mailto:jmcgovern@fhhboro.net) Phone: 732-747-0241 x324

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? <input type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to initiate/continue the buyouts of repetitive loss properties? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to provide local outreach to promote the sale of flood insurance? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does your community intend to participate in RiskMAP meetings and planning initiatives? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? <input type="checkbox"/> Yes <input type="checkbox"/> No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
* If you answered "yes", that there have been changes to your local program since 2009, please describe:								
There have been no changes								
Provide a description of your community assistance and monitoring activities:								
All building permits are reviewed for flood plan								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJT>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name:      Matt Shafai

Title:      Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing:      Farmingdale

Email and Phone:      732-938-4077

## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?
2009	Unknown	Engineer	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):						
Done as part of permitting process						
Describe barriers to running an effective NFIP program in the community (if applicable):						
None						
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?
Unknown	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* *Class_____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
* Describe any outstanding compliance issues (i.e., current violations):						
None						
Provide an explanation of your local floodplain permitting process:						
Applicant provides floodplain documentation when applicable prior to issuance of permit or review of site plan for development.						





Name: Timdthy P. White Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Township of Freehold Email and Phone: twhite@twp.freehold.nj.us

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
8-25-2009	1983	Township Engineer	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):							
The Township of Freehold assists residents and businesses in determining the location of their homes, structures and other buildings in relation to the mapped flood hazard areas and flood zones. While the Township does not make final determinations or flood elevation certificates, names of authorized/certified flood certification companies are provided.							
Describe barriers to running an effective NFIP program in the community (if applicable):							
N/A							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
Unknown	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No * Class _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
* Describe any outstanding compliance issues (i.e., current violations):							
N/A							
Provide an explanation of your local floodplain permitting process:							



Name: **Timothy P. White** Title: **Floodplain Manager/Floodplain Administrator/NFIP Coordinator**

Representing: **Township of Freehold** Email and Phone: **twhite@twp.freehold.nj.us**

Floodplain permitting issues are referred to the NJDEP. That is, when a resident or developer applies to the Construction Department of Planning Board for the construction of a structure or alteration of the terrain.

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? [x] Yes     No	Does your community intend to initiate/continue the buyouts of repetitive loss properties?     Yes [x] No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? [x] Yes     No	Does your community intend to provide local outreach to promote the sale of flood insurance?     Yes [x] No	Does your community intend to participate in RiskMAP meetings and planning initiatives?     Yes [x] No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? [x] Yes     No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding?     Yes [x] No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? [x] Yes     No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? [x] Yes     No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? [x] Yes     No								
As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan? [x] Yes     No								
As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? [x] Yes     No								
Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009?     Yes * [x] No								
* If you answered "yes", that there have been changes to your local program since 2009, please describe:								
Provide a description of your community assistance and monitoring activities:								
Freehold Township assists residents in interpreting the flood insurance rate maps (FIRMs) prepared by FEMA in their efforts to obtain building permits for accessory structures or additions to their homes. Commercial development is regulated and monitored for compliance with the Township Ordinance and the Flood Hazard Area Control Act.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? [x] Yes     No								
NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? [x] Yes     No								

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: Frank DiRoma Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Hazlet Township Email and Phone: fdiroma@hazletwp.org 732-217-8660

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
6/3/2013	12/1/1982	Floodplain Administrator	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):							
The NFIP administration services provided are permit review, GIS, education, outreach and inspections.							
Describe barriers to running an effective NFIP program in the community (if applicable):							
Residents unable to obtain financial aid to protect from future flood events and reduce their insurance costs.							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
6/15/2013	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 1 foot > BFE	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No * Class 6	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
* Describe any outstanding compliance issues (i.e., current violations):							
None							
Provide an explanation of your local floodplain permitting process:							
Residents provide details for floodplain compliance and documentation for review before any issuance of any development, zoning or construction permits.							



Name: Frank DiRoma Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Hazlet Township Email and Phone: fdiroma@hazletwp.org 732-217-8660

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? <input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No	Does your community intend to initiate/continue the buyouts of repetitive loss properties? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? <input type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to provide local outreach to promote the sale of flood insurance? <input type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to participate in RiskMAP meetings and planning initiatives? <input type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? <input type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? <input type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? <input type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? <input type="checkbox"/> Yes   <input type="checkbox"/> No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? <input type="checkbox"/> Yes   <input type="checkbox"/> No		As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan? <input type="checkbox"/> Yes   <input type="checkbox"/> No		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? <input type="checkbox"/> Yes   <input type="checkbox"/> No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009? <input type="checkbox"/> Yes *   <input type="checkbox"/> No		
* If you answered "yes", that there have been changes to your local program since 2009, please describe: New BFE's adopted with minor rule changes, more restrictive and protective construction requirements. Complies with all new FEMA regulations and the Uniform Construction Code.								
Provide a description of your community assistance and monitoring activities:								
The Township Office of Emergency Management coordinates and assists in recovery efforts. All Departments such as DPW, Construction, Zoning and Code Enforcement also play a role in response and recovery all coordinated through OEM.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? <input type="checkbox"/> Yes   <input type="checkbox"/> No				
<p>Note: NFIP policy statistics by community are maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1">http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1</a>  NFIP claims data by community is maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1040.htm#34">http://bsa.nfipstat.fema.gov/reports/1040.htm#34</a>  Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.</p>								



Name: Dale R. Leubner Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: Borough of Highlands Email and Phone: dleubner@tandmassociates.com 732-671-6400

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - **NFIP Worksheet**

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
7/2010	12-15-1970	Dale R. Leubner	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):							
Administrative services include permit reviews, engineering reviews, inspections, and education outreach to community through office hours and town hall meetings.							
Describe barriers to running an effective NFIP program in the community (if applicable):							
N/A							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
March 2013	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* * Class _____	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):							
N/A							
Provide an explanation of your local floodplain permitting process:							
Permitting process requires a plan submittal to the Floodplain Administrator for approval.							



Name: Dale R. Leubner Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Borough of Highlands Email and Phone: dleubner@tandmassociates.com 732-671-6400

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? [x] Yes     No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? [x] Yes     No	Does your community intend to provide local outreach to promote the sale of flood insurance? [x] Yes     No	Does your community intend to participate in RiskMAP meetings and planning initiatives? [x] Yes     No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? [x] Yes     No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding?     Yes [x] No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? [x] Yes     No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? [x] Yes     No
Does your community intend to initiate/continue the buyouts of repetitive loss properties? [ ] Yes [x] No		Does your predecessor at the time actively participate in the development of the initial Hazard Mitigation Plan? [x] Yes     No		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? [x] Yes     No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009? [x] Yes *     No	
* If you answered "yes", that there have been changes to your local program since 2009, please describe: In the process of adopting ABFEs. Changed Floodplain Administrators. In the process of revising current Ordinance but will continue to comply with FEMA and NJDEP requirements.							
Provide a description of your community assistance and monitoring activities: Provide information at Borough Councilmeetings and Mayor Townhall Meetings. Actively meet with residents/businesses to answer questions regarding mitigation. Routinely inspect downtown to identify any activity that may not have been permitted.							
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? [x] Yes     No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? [x] Yes     No			

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: David Olsen Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: Nolmdele Twp. Email and Phone: dolsen@holmdeltownship-nj.com

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?
June 2006	Unknown	Fire Official/Zoning Officer	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):</b>						
Pictometry Electronic Field Study						
<b>Describe barriers to running an effective NFIP program in the community (if applicable):</b>						
None						
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?
Unknown	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>*Describe any outstanding compliance issues (i.e., current violations):</b>						
None						
<b>Provide an explanation of your local floodplain permitting process:</b>						
<p>A development permit shall be obtained before construction or development begins within any area of special flood hazard established in subsection 24-3.2. An application for a development permit shall be made on forms furnished by the Construction Official and may include, but not be limited to: plans in duplicate drawn to scale showing the nature, location, dimensions, and elevations of the area in question; existing or proposed structures, fill, storage of materials, drainage facilities; and the location of the foregoing. Specifically, the following information is required:</p> <ol style="list-style-type: none"> <li>Elevation in relation to mean sea level, of the lowest floor (including basement) of all structures;</li> <li>Elevation in relation to mean sea level to which any structure has been floodproofed.</li> <li>Certification by a registered professional engineer or architect that the floodproofing methods for any nonresidential structure meet the floodproofing criteria in subsection 24-5.2b; and,</li> <li>Description of the extent to which any watercourse will be altered or relocated as a result of proposed development.</li> </ol> <p>(Ord. No. 2009-14 § 1)</p>						



Name: David Olsen Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: Nolmdel Twp. Email and Phone: dolsen@holmdeltownship-nj.com

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to initiate/continue the buyouts of repetitive loss properties? <input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to provide local outreach to promote the sale of flood insurance? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to participate in RiskMAP meetings and planning initiatives? <input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? <input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No		As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan? <input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009? <input type="checkbox"/> Yes *   <input checked="" type="checkbox"/> No		
* If you answered "yes", that there have been changes to your local program since 2009, please describe:								
Provide a description of your community assistance and monitoring activities:								
<ol style="list-style-type: none"> <li>Review all development permits to determine that the permit requirements of the township ordinance relating to "Construction in Flood Hazard Areas" have been satisfied.</li> <li>Review all development permits to determine that all necessary permits have been obtained from those Federal, State or local governmental agencies from which prior approval is required.</li> <li>Review all development permits to determine if the proposed development is located in the floodway, assure that the encroachment provisions of subsection 24-5.3a.(Floodways) are met.</li> </ol>								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No				
Note: NFIP policy statistics by community are maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1">http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1</a> NFIP claims data by community is maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1040.htm#34">http://bsa.nfipstat.fema.gov/reports/1040.htm#34</a> Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan. All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.								



Name: William Nunziato Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: Howell Township Email and Phone: bnunziato@twp.howell.nj.us

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
August 2009	Unknown	Mechanical Plant Supervisor	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):							
Done as part of permitting process.							
Describe barriers to running an effective NFIP program in the community (if applicable):							
None							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
Unknown	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* *Class _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):							
None							
Provide an explanation of your local floodplain permitting process:							
Application made to planning board in conjunction with site plan or subdivision application. If individual then permitting through the engineering department.							



Name: William Nunziato

Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Howell Township

Email and Phone: bnunziato@twp.howell.nj.us

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? [ x ] Yes     No	Does your community intend to initiate/continue the buyouts of repetitive loss properties? [ x ] Yes     No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? [ x ] Yes     No	Does your community intend to provide local outreach to promote the sale of flood insurance? [ x ] Yes     No	Does your community intend to participate in RiskMAP meetings and planning initiatives? [ x ] Yes     No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? [ x ] Yes     No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? [ x ] Yes     No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? [ x ] Yes     No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? [ x ] Yes     No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? [ x ] Yes     No		As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan? [ x ] Yes     No		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? [ x ] Yes     No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009? [ ] Yes *   x   No		
* If you answered "yes", that there have been changes to your local program since 2009, please describe:								
Provide a description of your community assistance and monitoring activities:								
OEM provides fact sheets and questionnaires available to residents during community event. Fact sheet made available online and provides links to County OEM and mitigation websites.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? [ x ] Yes     No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? [ x ] Yes     No				

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJT>  
NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>

Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.

All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: \_\_\_\_\_ Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: \_\_\_\_\_ Email and Phone: \_\_\_\_\_

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - **NFIP Worksheet**

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

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Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?
2009	1/02/1981	Paul Viatile – Construction Official	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):						
The NFIP administration services provided are permit review, GIS, education, outreach and inspections.						
Describe barriers to running an effective NFIP program in the community (if applicable):						
N/A						
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	1/2013	Is a CAV or CAC scheduled or needed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is training of staff regarding NFIP issues planned?
		Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community participate in the CRS? If so, state your Class.	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* *Class _____	Does your community intend to continue its participation in the CRS program?
		Does your community intend to continue to improve local mapping and/or code administration?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does your community intend to continue to improve local mapping and/or code administration?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does your community intend to continue to improve local mapping and/or code administration?
*Describe any outstanding compliance issues (i.e., current violations):						
N/A						
Provide an explanation of your local floodplain permitting process:						
Applicant shall apply for a development permit prior to any construction or development that is to take place in any area of special flood hazard as per Ordinance section 19-3.2.						



Name: \_\_\_\_\_ Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: \_\_\_\_\_ Email and Phone: \_\_\_\_\_

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? <input type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to initiate/continue the buyouts of repetitive loss properties? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? <input type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to provide local outreach to promote the sale of flood insurance? <input type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to participate in RiskMAP meetings and planning initiatives? <input type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? <input type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? <input type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? <input type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? <input type="checkbox"/> Yes <input type="checkbox"/> No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? <input type="checkbox"/> Yes <input type="checkbox"/> No		As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan? <input type="checkbox"/> Yes <input type="checkbox"/> No		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? <input type="checkbox"/> Yes <input type="checkbox"/> No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009? <input type="checkbox"/> Yes * <input checked="" type="checkbox"/> No		
* If you answered "yes", that there have been changes to your local program since 2009, please describe:								
Provide a description of your community assistance and monitoring activities:								
Provide assistance to residents in determination of base flood and flooding data. Provide internet link to county website with mitigation plan information. Post public mitigation plan fact sheet in municipal building.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? <input type="checkbox"/> Yes <input type="checkbox"/> No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? <input type="checkbox"/> Yes <input type="checkbox"/> No				

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: Ed Striedl | Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Keansburg Email and Phone: \_\_\_\_\_

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

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Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?
9/25/2009	4/20/1973	Ed Striedl/Construction Official	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):						
Issuing flood plain letters						
Describe barriers to running an effective NFIP program in the community (if applicable):						
None at this time						
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or scheduled CAC needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?
unknown	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* *Class _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):						
none						
Provide an explanation of your local floodplain permitting process:						
The work estimates are composed to the market value to determine if elevation is required also plans are reviewed to insure compliance with approved construction methods.						



Name: Ed Striedl | Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Keansburg | Email and Phone: \_\_\_\_\_

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? <input type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to initiate/continue the buyouts of repetitive loss properties? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? <input type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to provide local outreach to promote the sale of flood insurance? <input type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to participate in RiskMAP meetings and planning initiatives? <input type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? <input type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? <input type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? <input type="checkbox"/> Yes   <input type="checkbox"/> No		As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan? <input type="checkbox"/> Yes   <input type="checkbox"/> No		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? <input type="checkbox"/> Yes   <input type="checkbox"/> No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009? <input type="checkbox"/> Yes *   <input type="checkbox"/> No		
* If you answered "yes", that there have been changes to your local program since 2009, please describe:								
Ordinanced introduced on 3/27/2013 to include a repetitive loss provision								
Provide a description of your community assistance and monitoring activities:								
Daily meetings with public on flood plains construction and with on site inspections								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? <input type="checkbox"/> Yes   <input type="checkbox"/> No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? <input type="checkbox"/> Yes   <input type="checkbox"/> No				
Note: NFIP policy statistics by community are maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1">http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1</a> NFIP claims data by community is maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1040.htm#34">http://bsa.nfipstat.fema.gov/reports/1040.htm#34</a> Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan. All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.								



Name: \_\_\_\_\_ Title: Floodplain

Bob Burlaw

Manager/Floodplain Administrator/NFIP Coordinator

Representing: \_\_\_\_\_ Keyport Borough \_\_\_\_\_ Email and

Phone: \_\_\_\_\_ : bburlew@keyportonline.com

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

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Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
JUNE 2013	7/2/79	Building Sub-Code Official & Bldg Inspector	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):							
Permit Review, Inspections, and preparation of Substantial Damage Letters							
Describe barriers to running an effective NFIP program in the community (if applicable):							
The recent inclusions of an additional "A" zone, specifically the COASTAL A. The points of beginning and termination for the Coastal A, the V, and the A zones. We would prefer a single A zone opposed to DUAL ZONES.							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
October 2012	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* Class _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
* Describe any outstanding compliance issues (i.e., current violations); this only requires ABBE+2							
No							

NFIP-1

Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet (February 2013)



Name: \_\_\_\_\_ Title: Floodplain

Bob Burlew

Manager/Floodplain Administrator/NFIP Coordinator

Representing: \_\_\_\_\_ Email and

Phone: \_\_\_\_\_ : Keyport Borough : bburlew@keyportonline.com

Provide an explanation of your local floodplain permitting process:							
Handled through the construction department regular permitting process, review is accomplished by the Construction Official/Flood Plain Administrator							
Does your community intend to continue floodplain identification and mapping services including any local requests for map updates?	Does your community intend to initiate/continue the buyouts of repetitive loss properties?	Does your community intend to commit staff or resources to improve local mapping or code administration in the future?	Does your community intend to provide local outreach to promote the sale of flood insurance?	Does your community intend to participate in RiskMAP meetings and planning initiatives?	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.?	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events?	Does your community intend to implement programs in coordination with a local or regional drainage/sewer authority?
<input type="checkbox"/> Yes   <input type="checkbox"/> No Does your community intend to adopt the new FEMA Advisory Base Flood Elevations?	<input type="checkbox"/> Yes   <input type="checkbox"/> No Does your community intend to provide local outreach to promote the sale of flood insurance?	<input type="checkbox"/> Yes   <input type="checkbox"/> No Does your community intend to commit staff or resources to improve local mapping or code administration in the future?	<input type="checkbox"/> Yes   <input type="checkbox"/> No Does your community intend to provide local outreach to promote the sale of flood insurance?	<input type="checkbox"/> Yes   <input type="checkbox"/> No Does your community intend to participate in RiskMAP meetings and planning initiatives?	<input type="checkbox"/> Yes   <input type="checkbox"/> No Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.?	<input type="checkbox"/> Yes   <input type="checkbox"/> No Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events?	<input type="checkbox"/> Yes   <input type="checkbox"/> No Does your community intend to implement programs in coordination with a local or regional drainage/sewer authority?
<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No Does your community intend to adopt the new FEMA Advisory Base Flood Elevations?	<input type="checkbox"/> Yes   <input type="checkbox"/> No Does your community intend to provide local outreach to promote the sale of flood insurance?	<input type="checkbox"/> Yes   <input type="checkbox"/> No Does your community intend to commit staff or resources to improve local mapping or code administration in the future?	<input type="checkbox"/> Yes   <input type="checkbox"/> No Does your community intend to provide local outreach to promote the sale of flood insurance?	<input type="checkbox"/> Yes   <input type="checkbox"/> No Does your community intend to participate in RiskMAP meetings and planning initiatives?	<input type="checkbox"/> Yes   <input type="checkbox"/> No Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.?	<input type="checkbox"/> Yes   <input type="checkbox"/> No Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events?	<input type="checkbox"/> Yes   <input type="checkbox"/> No Does your community intend to implement programs in coordination with a local or regional drainage/sewer authority?
* If you answered "yes", that there have been changes to your local program since 2009, please describe:							
Provide a description of your community assistance and monitoring activities:							
Regular inspections, continuing education and community outreach							
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement?							
<input type="checkbox"/> Yes   <input type="checkbox"/> No							

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ> NFIP-2  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: Louise A. Mekosh Borough Administrator Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: Lake Como Email and Phone: Lmekosh@boro.lake-como.nj.us 732-681-3232, ext. 202

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
2009	1988	Construction Official	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<p><b>Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):</b></p> <p>The Construction official is the Floodplain Administrator and he reviews all construction plans for construction permits and if the property is in a designated flood area, reviews plans to insure compliance of the Floodplain management ordinance. Floodplain Manager is also the Construction Official for the Borough of Lake Como.</p>							
<p><b>Describe barriers to running an effective NFIP program in the community (if applicable):</b></p> <p>N/A</p>							
<p><b>When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*</b></p> <p>2013</p>	<p><b>Is a CAV or CAC scheduled or needed?</b></p> <p style="text-align: center;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p><b>Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.</b></p> <p style="text-align: center;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p><b>Is training of staff regarding NFIP issues planned?</b></p> <p style="text-align: center;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p><b>Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?</b></p> <p style="text-align: center;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p><b>Does your community participate in the CRS? If so, state your Class.</b></p> <p style="text-align: center;"><input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No *Class _____</p>	<p><b>Does your community intend to continue its participation in the CRS program?</b></p> <p style="text-align: center;"><input type="checkbox"/> Yes/N/A <input type="checkbox"/> No</p>	<p><b>If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?</b></p> <p style="text-align: center;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p><b>*Describe any outstanding compliance issues (i.e., current violations):</b></p> <p style="text-align: center;">No current violations.</p>							
<p><b>Provide an explanation of your local floodplain permitting process:</b></p> <p>Review of all development permits to determine if floodplain management requirements have been satisfied. Review all permits to determine that all necessary permits have been obtained from Federal, State and/or local agency, as required. Compare information to existing flood map. Verify and receive certification of the actual elevation of all new or substantially improved structures. Maintain certifications for later review.</p>							



Name: Louise A. Mekosh Borough Administrator Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Lake Como Email and Phone: Lmekosh@boro.lake-como.nj.us 732-681-3232, ext. 202

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? [X] Yes     No	Does your community intend to initiate/continue the buyouts of repetitive loss properties?     Yes [X]   No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? [X] Yes     No	Does your community intend to provide local outreach to promote the sale of flood insurance? [X] Yes     No	Does your community intend to participate in RiskMAP meetings and planning initiatives? [X] Yes     No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? [X] Yes     No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? [X] Yes     No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? [X] Yes     No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? [X] Yes     No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? [X] Yes     No								
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? [X] Yes     No								
* If you answered "yes", that there have been changes to your local program since 2009, please describe: _____ _____ _____								
Provide a description of your community assistance and monitoring activities: _____ _____ _____								
The Construction official (Floodplain Administrator) reviews all construction permits to verify compliance. Guidance is given to our community by keeping them up to date on the current floodplain management ordinance and we had one meeting to go over the new proposed ABFE maps and we are continuing to give them information as they call or stop in for updates.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? [X] Yes     No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? [X] Yes     No				

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJT>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: Gregory S. Blash P.E. Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: Borough of Little Silver Email and Phone: gblash@verizon.net ph: 732-922-9229

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?
2009	1978	Engineer/Zoning Officer Gregory S. Blash, P.E.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):						
The Borough's Engineering Department provides residents with information services to aid in flood plain elevation mapping. Likewise, the Borough provides website links to FEMA information and emergency email services.						
Describe barriers to running an effective NFIP program in the community (if applicable):						
N/A						
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* * Class _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):						
The Borough's Flood Damage Prevention Ordinance requires three (3) feet of freeboard for all new construction.						
Provide an explanation of your local floodplain permitting process:						
Applicant shall apply for development permit prior to construction in accordance with Ordinance Section 19 – Coastal Wetlands and Ordinance Section 22 – Flood Damage Prevention.						



Name: Gregory S. Blash P.E.

Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Borough of Little Silver

Email and Phone: gblash@verizon.net ph: 732-922-9229

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates?	Does your community intend to commit staff or resources to improve local mapping or code administration in the future?	Does your community intend to provide local outreach to promote the sale of flood insurance?	Does your community intend to participate in RiskMAP meetings and planning initiatives?	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.?	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding?	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events?	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority?
[X] Yes     No	[X] Yes     No	[X] Yes     No	[X] Yes     No	[X] Yes     No	[X] Yes     No	[X] Yes     No	[X] Yes     No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations?	As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan?	As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update?	Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009?				
[X] Yes     No	Yes [X] No	[X] Yes     No	Yes * [X] No				
* If you answered "yes", that there have been changes to your local program since 2009, please describe:							
Provide a description of your community assistance and monitoring activities:							
Provide assistance to residents in determination of base flood and floodway data. Provide internet link to FEMA and Hazard Mitigation website. OEM Coordinator post mitigation plan fact sheet in borough bulletin board and library.							
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement?				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement?			
X   Yes     No				X   Yes     No			

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: Peter R. Avakian, P.E. Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Village of Loch Arbour Email and Phone: Isavakian@aol.com ph: 732-922-9229

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	2009	Date of Entry into NFIP	1983	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Peter R. Avakian, P.E. – Village Engineer/Floodplain Administrator	Is this person is a Certified Floodplain Manager?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is floodplain management an auxiliary function?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is your community in good standing with the NFIP?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):															
The Village's Engineering Department provides residents with information services to aid in flood plain elevation mapping. Likewise, the Village Clerk/Dep. OEM - Public Notice - information poster detailing the County's Hazard Mitigation Plan posted on bulletin board in Municipal Building and copies made available to the public.															
Describe barriers to running an effective NFIP program in the community (if applicable):															
N/A															
When was most recent FEMA Community Assistance Visit (CAV) or Community Contact (CAC)?*		Is a CAV or CAC scheduled or needed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is training of staff regarding NFIP issues planned?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community participate in the CRS? If so, state your Class.	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* * Class _____	Does your community intend to continue its participation in the CRS program?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):															
Provide an explanation of your local floodplain permitting process:															
Applicant shall apply for development permit prior to construction in accordance with Flood Damage Prevention Ordinance.															



Name: Peter R. Avakian, P.E. Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Village of Loch Arbour Email and Phone: lsavakian@aol.com ph: 732-922-9229

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? [X] Yes     No	Does your community intend to initiate/continue the buyouts of repetitive loss properties? [ ] Yes [X] No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? [X] Yes     No	Does your community intend to provide local outreach to promote the sale of flood insurance? [X] Yes     No	Does your community intend to participate in RiskMAP meetings and planning initiatives? [X] Yes     No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? [X] Yes     No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? [X] Yes     No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? [X] Yes     No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? [X] Yes     No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? [X] Yes     No		As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan? [ ] Yes [X] No		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? [X] Yes     No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009? [ ] Yes * [X] No		
* If you answered "yes", that there have been changes to your local program since 2009, please describe:								
Provide a description of your community assistance and monitoring activities:								
Provide assistance to residents in determination of base flood and floodway data. Post mitigation plan fact sheet in Village bulletin board.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? [X] Yes     No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? [X] Yes     No				
<p>Note: NFIP policy statistics by community are maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ">http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ</a>          NFIP claims data by community is maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1040.htm#34">http://bsa.nfipstat.fema.gov/reports/1040.htm#34</a>          Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.          All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.</p>								



Name: Charles F. Shirley Jr. Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: City of Long Branch Email and Phone: cshirley@longbranch.org - 732-222-7000

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?
2/12/2013	Unk	Stanley Midose	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):</b>						
The floodplain manager is also the construction official so any permits or engineering issues related to floodplain management is reviewed in his department.						
<b>Describe barriers to running an effective NFIP program in the community (if applicable):</b>						
Manpower and time constraints						
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?
Unknown	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* *Class _____	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>*Describe any outstanding compliance issues (i.e., current violations):</b>						
None Known						
<b>Provide an explanation of your local floodplain permitting process:</b>						
The floodplain manager is also the construction official so any permits or engineering issues related to floodplain management is reviewed in his department.						



Name: Charles F. Shirley Jr. Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: City of Long Branch Email and Phone: cshirley@longbranch.org - 732-222-7000

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to initiate/continue the buyouts of repetitive loss properties? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to provide local outreach to promote the sale of flood insurance? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to participate in RiskMAP meetings and planning initiatives? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No		As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009? <input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No		
* If you answered "yes", that there have been changes to your local program since 2009, please describe:  N/A								
<b>Provide a description of your community assistance and monitoring activities:</b>  All community assistance and monitoring activities will be conducted through the Construction Official with the assistance of the Office of Emergency Management. Individuals in need of assistance are directed to the Building Department.								
<b>NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement?</b>				<b>NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement?</b>				
<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No				
Note: NFIP policy statistics by community are maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ">http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ</a> NFIP claims data by community is maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1040.htm#34">http://bsa.nfipstat.fema.gov/reports/1040.htm#34</a> Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan. All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.								



Name: Rick Hogan Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: Manalapan Email and Phone: rhogan@twp.manalapan.nj.us 732-446-8318

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
9-23-2009	9-15-1977	Construction Official	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):							
Services provided include review of flood plain impacts during construction permit and planning/zoning applications. Respond and advise residents seeking LOMA and LOMR-F assistance. Plan mitigation projects to reduce potential impacts to structures. Educate public and government representatives on flood mitigation. Conduct inspections of structures and properties after flood events. Provide mapping services.							
Describe barriers to running an effective NFIP program in the community (if applicable):							
Getting the community to advise of flood damage to their homes and to record losses in a reportable format; accessing data from NFIP on number of policy holders, claims files and repetitive lost list.							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
12/2012	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* * Class _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Unknown at this time	
*Describe any outstanding compliance issues (i.e., current violations):							
none							
Provide an explanation of your local floodplain permitting process:							
Floodplain review is conducted at time of subdivision/site plan submission to planning/zoning board and at time of application for construction permits							



Name:        Rick Hogan        Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing:        Manalapan        Email and Phone: [rhogan@twp.manalapan.nj.us](mailto:rhogan@twp.manalapan.nj.us) 732-446-8318

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? [X] Yes     No	Does your community intend to initiate/continue the buyouts of repetitive loss properties? [X] Yes     No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? [X] Yes     No	Does your community intend to provide local outreach to promote the sale of flood insurance? [X] Yes     No	Does your community intend to participate in RiskMAP meetings and planning initiatives? [X] Yes     No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? [X] Yes     No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? [X] Yes     No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? [X] Yes     No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? [X] Yes     No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? [X] Yes     No								
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? [X] Yes     No								
* If you answered "yes", that there have been changes to your local program since 2009, please describe: _____ _____ _____								
The Township Engineer has played a more active role in <u>floodplain management and hazard mitigation planning</u> . _____ _____								
Provide a description of your community assistance and monitoring activities: _____ _____								
The Township office of emergency management and department of public works observe areas of concern that need to be addressed in the Hazard Mitigation Plan. The Township Engineer's office monitors area of flooding incidents and develops flood mitigation projects to avoid future losses.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? [X] Yes     No								
NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? [X] Yes     No								
Note: NFIP policy statistics by community are maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ">http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ</a> NFIP claims data by community is maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1040.htm#34">http://bsa.nfipstat.fema.gov/reports/1040.htm#34</a> Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan. All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.								



Name: CHRISTOPHER TUCKER Title: DEPUTY OEM COORDINATOR

Representing: MANASQUAN Email and Phone: oem@manasquan-nj.com (732) 528-2277

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?
09/14/2009 Amended: 10/07/2013	5/12/1972	Construction Code Official	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):						
Permit Review, Education, Map Interpretation, Outreach & Inspections						
Describe barriers to running an effective NFIP program in the community (if applicable):						
Funding, training & personnel						
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
March 2013	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):						
NONE						
Provide an explanation of your local floodplain permitting process:						
Property owners initiate permitting process through Construction/Code Department/Zoning Department. Floodplain issues are reviewed in conjunction with all other relevant inspections.						



Name: CHRISTOPHER TUCKER Title: DEPUTY OEM COORDINATOR

Representing: MANASQUAN Email and Phone: oem@manasquan-nj.com (732) 528-2277

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates?	Does your community intend to initiate/continue the buyouts of repetitive loss properties?	Does your community intend to commit staff or resources to improve local mapping or code administration in the future?	Does your community intend to provide local outreach to promote the sale of flood insurance?	Does your community intend to participate in RiskMAP meetings and planning initiatives?	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.?	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding?	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events?	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority?
[X] Yes     No	Yes   X  No	[X] Yes     No	[X] Yes     No	[X] Yes     No	[X] Yes     No	[X] Yes     No	[X] Yes     No	[X] Yes     No
<p>Does your community intend to adopt the new FEMA Advisory Base Flood Elevations?</p> <p>[X] Yes     No</p>								
<p>* If you answered "yes", that there have been changes to your local program since 2009, please describe:</p> <p>Manasquan adopted a new Flood Damage Prevention ordinance on 09/14/2009 adopting revised Flood Insurance Study, new Flood Insurance Rate Maps and DFIRM Panels. Furthermore, Manasquan revised its Floodplain Ordinance on 10/07/2013 to include definitions for "Cumulative Substantial Improvement" revising definition for "Substantial Damage" and "Substantial Improvement" and removing the definition of sand dune.</p>								
<p>Provide a description of your community assistance and monitoring activities:</p> <p>Manasquan maintains a Construction, Code, Planning &amp; Zoning Department available during normal business hours to provide guidance on floodplain management planning, zoning, regulations, interpretation of maps and floodproofing homes and businesses. Manasquan has developed and is constantly improving a public outreach program that includes, web-based information, semi-annual mailings, handout and personalized one-on-one interaction on topics mentioned above.</p> <p>NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement?</p>								
<p>[X] Yes     No</p>								

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: Robert Miller Title: Deputy OEM Coordinator  
 Representing: Marlboro Township Email and Phone: bmiller@marlboro-nj.gov 732-536-0188, extension 1627

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?
7/46/2009	6/45/4978	Construction Code Official/Floodplain Manager	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):						
Permit review, inspections, engineering, providing flood map and update information to residents						
Describe barriers to running an effective NFIP program in the community (if applicable):						
N/A						
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?
3/18/08	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* *Class _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):						
None						
Provide an explanation of your local floodplain permitting process:						
No local permits. Township defers jurisdiction to NJ Dept. of Environmental Protection for such permits						



Name: Robert Miller Title: Deputy OEM Coordinator

Representing: Marlboro Township Email and Phone: bmiller@marlboro-nj.gov 732-536-0188, extension 1627

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? [X]   Yes     No	Does your community intend to initiate/continue the buyouts of repetitive loss properties?     Yes [X]   No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? [X]   Yes     No	Does your community intend to provide local outreach to promote the sale of flood insurance? [X]   Yes     No	Does your community intend to participate in RiskMAP meetings and planning initiatives? [X]   Yes     No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? [X]   Yes     No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? [X]   Yes     No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? [X]   Yes     No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? [X]   Yes     No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations?     Yes [X]   No								
* If you answered "yes", that there have been changes to your local program since 2009, please describe: N/A								
Provide a description of your community assistance and monitoring activities: Maintenance of Township wide stormwater collection system, stream cleaning implementation and planning, capital drainage improvement projects planning and construction, respond to resident reports of flooding and drainage problems, regular inspection/monitoring of stream and stormwater collection systems, assist residents with LOMR and LOMA applications NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? [X]   Yes     No								

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJT>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>

Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.

All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: John Quinn Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: Borough of Matawan Email and Phone: john.quinn@matawanborough.com (732)566-3898 x137

**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet**

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
1998	9/30/1981	Construction Official	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):							
The NFIP administration services provided are permit review, GIS, education, outreach and inspections.							
Describe barriers to running an effective NFIP program in the community (if applicable):							
Residents who are not insured and unable to obtain financial aid to enable them to satisfy any flood hazard mitigation requirements.							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
1/13	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 1 foot > BFE	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No * Class	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
* Describe any outstanding compliance issues (i.e., current violations):							
NONE							
Provide an explanation of your local floodplain permitting process:							
The applicant provides all floodplain documentation for review before any issuance of any development, zoning or construction permits.							



Name: John Quinn Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: Borough of Matawan Email and Phone: john.quinn@matawanborough.com (732)566-3898 x137

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to initiate/continue the buyouts of repetitive loss properties? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to provide local outreach to promote the sale of flood insurance? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to participate in RiskMAP meetings and planning initiatives? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
* If you answered "yes", that there have been changes to your local program since 2009, please describe:  N/A								
Provide a description of your community assistance and monitoring activities:  The Borough operates an Office of Emergency Management to coordinate and assist in any recovery efforts when necessary. In the process of further developing the Borough's Hazard Mitigation Plan.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: Joe Kachinsky  
Title: Floodplain Manager / Floodplain Administrator / NFIP Coordinator

Representing: Middletown Township

Email and Phone: 732-615-2004, jkachins@middletownnj.org

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
April 15, 2013	7/19/1974	Joseph Kachinsky, Construction Official	Yes   <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes     No	<input checked="" type="checkbox"/> Yes     No	<input checked="" type="checkbox"/> Yes     No	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):							
Floodplain Encroachment permit review, GIS, education, outreach, inspections and engineering							
Describe barriers to running an effective NFIP program in the community (if applicable):							
NA							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or scheduled CAC needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
	Yes   <input checked="" type="checkbox"/> No	Yes   <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes     No	<input checked="" type="checkbox"/> Yes     No	<input checked="" type="checkbox"/> Yes*     No *Class __ 8 __	<input checked="" type="checkbox"/> Yes     No	Yes     No
*Describe any outstanding compliance issues (i.e., current violations):							
No							
Provide an explanation of your local floodplain permitting process:							
Zoning/floodplain encroachment permits are required prior to the issuance of any building permits.							



Name: Joe Kachinsky Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Middletown Township

Email and Phone: 732-615-2004, jkachins@middletownnj.org

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? [x] Yes     No	Does your community intend to initiate/continue the buyouts of repetitive loss properties? [x] Yes     No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? [x] Yes     No	Does your community intend to provide local outreach to promote the sale of flood insurance? [x] Yes     No	Does your community intend to participate in RiskMAP meetings and planning initiatives? [x] Yes     No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? [x] Yes     No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? [x] Yes     No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? [x] Yes     No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? [x] Yes     No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? [x] Yes     No								
* If you answered "yes", that there have been changes to your local program since 2009, please describe: Adoption of ABFEs								
Provide a description of your community assistance and monitoring activities:								
We do public outreach several times a year. Monitoring is handled through the permit process								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? [x] Yes     No								
Note: NFIP policy statistics by community are maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1">http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1</a> NFIP claims data by community is maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1040.htm#34">http://bsa.nfipstat.fema.gov/reports/1040.htm#34</a> Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan. All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.								



Name: **Matt Shafai / Michael Kuczinski** Title: **Floodplain Manager/Floodplain Administrator/NFIP Coordinator**  
 Representing: **Millstone Township** Email and Phone: **m-kuczinski@millstone.nj.us 732-895-3802**

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
2009	4/20/82	Matt Shafai, Township Engineer	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):							
The Township, prior to final resale of a home, will perform a CCO to ensure compliance with Flood Plain regulations. Additionally, all new homes prior to final occupancy (CO) are inspected for build code and flood plain regulation. The Township also provides residents with information services and website links to the Office of Emergency Management for Monmouth County to aid in flood plain elevation and mapping.							
Describe barriers to running an effective NFIP program in the community (if applicable):							
n/a							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
n/a	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* * Class _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):							
Provide an explanation of your local floodplain permitting process:							
Applicant shall apply for a development permit prior to construction or development shall begin within any area of special flood hazard area per ordinance section 26-4.1							



Name: **Matt Shafai / Michael Kuczinski** Title: **Floodplain Manager/Floodplain Administrator/NFIP Coordinator**  
 Representing: **Millstone Township** Email and Phone: **m-kuczinski@millstone.nj.us 732-895-3802**

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? [x] Yes     No	Does your community intend to initiate/continue the buyouts of repetitive loss properties?     Yes [x] No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? [x] Yes     No	Does your community intend to provide local outreach to promote the sale of flood insurance? [x] Yes     No	Does your community intend to participate in RiskMAP meetings and planning initiatives? [x] Yes     No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? [x] Yes     No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? [x] Yes     No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? [x] Yes     No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? [x] Yes     No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations?     Yes [x] No		As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan?     Yes [x] No		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? [x] Yes     No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009?     Yes * [x] No		
* If you answered "yes", that there have been changes to your local program since 2009, please describe:								
Provide a description of your community assistance and monitoring activities:								
Provide assistance to residents in determination of base flood and flooding dates, Township website link to County OEM website, advising residents of Hazard Mitigation Flood Program as well as information regarding OEM Mitigation Plan.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? [x] Yes     No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? [x] Yes     No				

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: Don Clare  
 Representing: Borough of Monmouth Beach  
 Title: Floodplain Administrator  
 Email and Phone: [donclare07750@gmail.com](mailto:donclare07750@gmail.com) / Cell 732-687-3267

## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
01/15/13	01/10/83	Construction Official / Floodplain Admin	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):</b>							
Review of all construction projects as a prior approval to the issuance of building permits. Regular and ongoing community awareness programs regarding flooding and flood prevention, assistance with mitigation by education and access to FEMA educational materials. Strict enforcement of the flood prevention ordinance and ongoing mitigation of structures in violation of the flood prevention ordinance.							
<b>Describe barriers to running an effective NFIP program in the community (if applicable):</b>							
The Borough of Monmouth Beach is a part-time construction department and lacks time to effectively manage all aspects of potential flood prevention benefits for example: storm drain, out-flow status or maintenance, dredging, road improvement schedules, and ongoing daily regulated activities.							
When was most recent FEMA Community Assistance Visit (CAV) or Community Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
05/15/13	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* Class _____	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>*Describe any outstanding compliance issues (i.e., current violations):</b>							
Assorted pre and post firm non-compliant structures. We actively mitigate all possible structures in violation.							



Provide an explanation of your local floodplain permitting process:								
Flood prevention is a prior approval to all development and building permits. Projects are reviewed to the current flood prevention ordinance in accordance with state law and authorized or denied based upon the same. Enforcement and issuance of notice of violations are part of the daily inspection process of all UCC inspectors.								
Does your community intend to continue floodplain identification and mapping services including any local requests for map updates?	Does your community intend to initiate/continue the buyouts of repetitive loss properties?	Does your community intend to commit staff or resources to improve local mapping or code administration in the future?	Does your community intend to provide local outreach to promote the sale of flood insurance?	Does your community intend to participate in RiskMAP meetings and planning initiatives?	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.?	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding?	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events?	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority?
[X] Yes     No	Yes [X] No	[X] Yes     No	[X] Yes     No	[X] Yes     No	[X] Yes     No	[X] Yes     No	[X] Yes     No	
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations?	As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan?		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update?	Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009?				
[X] Yes     No	Yes [X] No		[X] Yes     No	[X] Yes *     No				
* If you answered "yes", that there have been changes to your local program since 2009, please describe:								
On 01/15/13 as a result of Hurricane Sandy, the Borough of Monmouth Beach adopted the advisory BFE'S plus 3'-0" of Freeboard with a Coastal A Zone requirement.								
Provide a description of your community assistance and monitoring activities:								
Regular public outreach is offered to the community with expert assistance from the FEMA Speakers Bureau, OEM, Building department, Zoning and Engineering. Dedicated email access is provided to submit questions and comments. Website access to assorted flood related information is also available through the Borough. Inspectors regularly monitor the community for compliance of permitted and non-permitted work.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement?				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement?				
[X] Yes     No				[X] Yes     No				



Worksheet #2

Name: Robert Temple Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Neptune City Email and Phone: temple@freemove.net ph 732-618-6367

**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet**

Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.

Adoption Date of your Current Floodplain Management Ordinance	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?
2009	Bill Doolittle * see below *	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):					
See attached, We are currently not in the NFIP. Our Floodplain Manager is scheduled to take the Certification exam on October 17, 2013					
Describe barriers to running an effective NFIP program in the community (if applicable):					
n/a					
When was most recent FEMA Community Assistance Visit (CAV) or Community Contact (CAC)?	Does the current Floodplain Management Ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community intend to participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program, are you intending to initiate the process during the next planning cycle?
Unknown	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Describe any outstanding compliance issues (i.e., current violations):					
We have not, to our knowledge had a Community Assistance Visit, so there are no outstanding violations.					
Provide an explanation of your local floodplain permitting process:					
Applicant shall apply for a development permit prior to construction or development shall begin within any area of special flood hazard area per ordinance section 66-12					

\*Bill Doolittle holds the concurrent positions of floodplain administrator, building official, zoning official, and construction official. NFIP-1



Name: Robert Temple Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: Deputy Coordinator Email and Phone: btemple@firehousemail.com  
Neptune City 732-618-6367

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to provide local outreach to promote the sale of flood insurance? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to participate in RiskMAP meetings and planning initiatives? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
* If you answered "yes" that there have been changes to your local program since 2009, please describe:  								
Provide a description of your community assistance and monitoring activities: <u>Provide assistance to residents in determination of base flood and floodway data. Borough website provides link to County OEW website to provide detail information</u>								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRM's. Will your community continue to commit to this program requirement? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#54>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.

**NFIP Worksheet No: 2**

***Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):***

The Borough prior to the final resale of a home will perform a CCO to ensure compliance with Flood Plain regulations. Additionally, all new homes prior to final occupancy (CO) are inspected for build code and flood plain regulation. The Borough's Engineering Department provides residents with information services to aid in flood plain elevation and mapping. Likewise, the Borough provides website links to FEMA information and emergency email services.



Name: William J. Doolittle Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: Neptune Township Email and Phone: bdoolittle@neptunetownship.org 732-988-5200 ext 268

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
First adoption was 7/49/77. Subsequent amendments 2/21/84, 5/4/87, 9/28/09, 4/8/13	2/16/77	William J. Doolittle; Construction Official	I will be taking the exam on October 17, 2013.	[x] Yes     No	[x] Yes     No	[x] Yes     No	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):							
(1) Floodplain management services are advertised, (2) FEMA publications are made available. (3) Floodplain development permits are issued and recorded upon satisfactory review of supporting compliant documentation. (4) Elevation certificates are tracked and maintained. (5) Flood zone determinations with elevations are made and flood insurance requirements are explained and recorded. (6) Site inspections to ensure compliance with flood mitigation requirements are conducted and recorded. (7) Periodic meetings that have included FEMA officials, NJ State officials, local government officials, residents, contractors and various professionals are hosted for the purpose of disseminating current information. (8) GIS mapping capabilities. (9) Employed in-house full-time engineer.							
Describe barriers to running an effective NFIP program in the community (if applicable):							
None							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulation in new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
09/25/13	Yes   x   No	Yes   x   No	[x] Yes     No	Yes     No	Yes*   x   No *Class__10__	[x] Yes     No	[x] Yes     No
* Describe any outstanding compliance issues (i.e., current violations):							
* We are in the process of entering the CRS program. A CAV was conducted on Sept. 23, 2013.							
Provide an explanation of your local floodplain permitting process:							
Prior to commencing work on any development such as new construction, additions, excavating, grading, etc., the owner or representative is required to submit a completed application with supporting documentation for review and approval. Supporting documentation includes a site plan showing the development and complete construction plans demonstrating compliance with all regulations including elevations, venting, anchorage, materials, equipment, and certifications as may be required.							



Name: William J. Doolittle

Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Neptune Township Email and Phone: bdoollittle@neptunetownship.org 732-988-5200 ext 268

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to initiate/continue the buyouts of repetitive loss properties?	Does your community intend to commit staff or resources to improve local mapping or code administration in the future?	Does your community intend to provide local outreach to promote the sale of flood insurance?	Does your community intend to participate in RiskMAP meetings and planning initiatives?	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.?	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding?	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events?	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority?
<input type="checkbox"/> Yes   <input type="checkbox"/> No	<input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations?	As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan?		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update?		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009?			
Adopted on April 8, 2013	I did not. My predecessor may have.		<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes *   <input type="checkbox"/> No			
* If you answered "yes", that there have been changes to your local program since 2009, please describe:								
The Flood Damage Prevention Ordinance was amended on April 8, 2013. The purpose was to adopt the ABFE maps and to refine the requirements for historical structures. Also, we are in the process of entering the CRS program.								
Provide a description of your community assistance and monitoring activities:								
Community assistance includes: (1) Flood zone determinations with elevations are made. (2) Flood insurance requirements and benefits are explained. (3) Individual consultations to review flood protection requirements and techniques. (4) FEMA supplied literature is made available. (5) Outreaches. (6) Financial assistance information is made available. * Monitoring activities include: (1) Development review, permitting and inspections. (2) Policing for illegal activities. (3) Status of repetitive loss properties.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement?				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement?				
<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No				

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJT>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: Marianne Wilensky Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Ocean Twp Email and Phone: mwilensky@oceantwp.org

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	6/11/2003	Date of Entry into NFIP	40/41/77	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Marianne Wilensky, Director of Community Development	Is this person is a Certified Floodplain Manager?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is floodplain management an auxiliary function?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is your community in good standing with the NFIP?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):															
There is a permit process which includes a review and inspections and possibly engineering input.															
Describe barriers to running an effective NFIP program in the community (if applicable):															
N/A															
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Unknown	Is a CAV or CAC scheduled or needed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is training of staff regarding NFIP issues planned?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community participate in the CRS? If so, state your Class.	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* *Class_____	Does your community intend to continue its participation in the CRS program?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):															
None															
Provide an explanation of your local floodplain permitting process:															
You must apply for a variance and once in front of the board, depending on the location of the property, the professional will determine the steps that have to be done.															



Name: Marianne Wilensky Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Ocean Twp Email and Phone: mwilensky@oceantwp.org

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates?	[X] Yes     No	Does your community intend to initiate/continue the buyouts of repetitive loss properties?	[X] Yes     No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future?	[X] Yes     No	Does your community intend to provide local outreach to promote the sale of flood insurance?	[X] Yes     No	Does your community intend to participate in RiskMAP meetings and planning initiatives?	[X] Yes     No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.?	[X] Yes     No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding?	[X] Yes     No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events?	[X] Yes     No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority?	[X] Yes     No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations?	[X] Yes     No	As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan?	[X] Yes     No	As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update?	[X] Yes     No	Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009?	[X] Yes     No	<p><b>* If you answered "yes", that there have been changes to your local program since 2009, please describe:</b></p> <p>N/A</p>									
Provide a description of your community assistance and monitoring activities:																	
OEM provides fact sheets and questionnaires available to residents and hold public meetings to discuss options. Information is also available online and provides links to County OEM and mitigation websites.																	
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement?																	
[X] Yes     No																	
<p>Note: NFIP policy statistics by community are maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1011.htm#NJT">http://bsa.nfipstat.fema.gov/reports/1011.htm#NJT</a>          NFIP claims data by community is maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1040.htm#34">http://bsa.nfipstat.fema.gov/reports/1040.htm#34</a>          Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.          All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.</p>																	



Name: Sal Massaro

Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Borough of Oceanport

Email and Phone: njbuildingofficial@gmail.com 732-233-7611

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
2009	4970's	Construction Official	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):</b>							
<b>Permit review, inspections, elevation certificates on file, mapping information available for review, outreach in bi-monthly town bulletin</b>							
<b>Describe barriers to running an effective NFIP program in the community (if applicable):</b>							
<b>Time limitations, Limited Staffing.</b>							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
2012	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes* <input type="checkbox"/> No * Class <u>8</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>* Describe any outstanding compliance issues (i.e., current violations):</b>							
<b>Substantially Damage non-compliant</b>							
<b>Provide an explanation of your local floodplain permitting process:</b>							
A development permit shall be obtained before construction or development begins within any area of special flood hazard established in § 229-7. Application for a development permit shall be made on forms furnished by the Construction Official and may include, but not be limited to, plans in duplicate drawn to scale showing the nature, location, dimensions, and elevations of the area in question; existing or proposed structures, fill, storage of materials, drainage facilities; and the location of the foregoing							



Name: Sal Massaro

Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Borough of Oceanport

Email and Phone: njbuildingofficial@gmail.com 732-233-7611

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? [ x ] Yes     No	Does your community intend to initiate/continue the buyouts of repetitive loss properties?     Yes   x   No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future?     Yes   x   No	Does your community intend to provide local outreach to promote the sale of flood insurance? [ x ] Yes     No	Does your community intend to participate in RiskMAP meetings and planning initiatives? [ x ] Yes     No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? [ x ] Yes     No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? [ x ] Yes     No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? [ x ] Yes     No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? [ x ] Yes     No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? [ x ] Yes     No		As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan? [ x ] Yes     No		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? [ x ] Yes     No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009? [ x ] Yes *     No		
* If you answered "yes", that there have been changes to your local program since 2009, please describe:								
Adopted ABFE.								
Provide a description of your community assistance and monitoring activities:								
Review plans, Review Files, Inspections, requests for map reviews, elevations certificates kept on file.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? [ x ] Yes     No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? [ x ] Yes     No				
<p>Note: NFIP policy statistics by community are maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1">http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1</a>  NFIP claims data by community is maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1040.htm#34">http://bsa.nfipstat.fema.gov/reports/1040.htm#34</a>  Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.</p>								

**Foley, Anna**

**From:** Margaret Murnane <MMurnane@mcsonj.org>  
**Sent:** Tuesday, April 16, 2013 8:02 AM  
**To:** Foley, Anna; Franks, Richard  
**Subject:** FW: County Worksheet #2\_4-15-2013.doc

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Worksheet #2 from Red Bank.... Date of entry should be 5/19/81

**From:** Tom Welsh [mailto:twelsh@redbanknj.org]  
**Sent:** Monday, April 15, 2013 5:58 PM  
**To:** Margaret Murnane  
**Subject:** County Worksheet #2\_4-15-2013.doc

**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet**

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?
1981	1981	Administrator	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No
<b>Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):</b>						
<u>The NFIP administration services provided are permit review, GIS, education, outreach and inspections.</u>						
<b>Describe barriers to running an effective NFIP program in the community (if applicable):</b>						
<u>Residents who are not insured and are unable to obtain financial aid to enable them to satisfy any flood hazard mitigation requirements.</u>						

When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?	
1/21/2013	Yes   X   No	Yes   X   No	X   Yes     No	X   Yes     No	Yes*   X   No *Class	Yes     No	Yes   X   No	
*Describe any outstanding compliance issues (i.e., current violations):								
None.								
Provide an explanation of your local floodplain permitting process:								
The applicant provides all floodplain documentation for review before any issuance of any development, zoning or construction permits.								
Does your community intend to continue floodplain identification and mapping services including any local requests for map updates?	Does your community intend to initiate/continue the buyouts of repetitive loss properties?	Does your community intend to commit staff or resources to improve local mapping or code administration in the future?	Does your community intend to provide local outreach to promote the sale of flood insurance?	Does your community intend to participate in RiskMAP meetings and planning initiatives?	Does your community intend to continue to implement structural improvements against flooding - culverts, drainage basins, etc.?	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding?	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events?	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority?
X   Yes     No	Yes   X   No	X   Yes     No	X   Yes     No	X   Yes     No	X   Yes     No	X   Yes     No	X   Yes     No	X   Yes     No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations?	As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan?							
X   Yes     No	Yes   X   No							
* If you answered "yes", that there have been changes to your local program since 2009, please describe:								
Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009?								
Yes*   X   No								

In the process of changing Floodplain Manager to Municipal Engineer, Christine Ballard, and updating plan.

**Provide a description of your community assistance and monitoring activities:**

The Borough operates an Office of Emergency Management to coordinate and assist in any recovery efforts when necessary. In the process of further developing the Borough's Hazard Mitigation Plan.

<p><b>NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement?</b></p>	<p><b>NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement?</b></p>
<p><input checked="" type="checkbox"/>   Yes     No</p>	<p><input checked="" type="checkbox"/>   Yes     No</p>

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJT>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.

All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.

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\* Advisory, consultative or deliberative material \*

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**From:** MTicktin@aol.com [mailto:MTicktin@aol.com]  
**Sent:** Thursday, April 25, 2013 12:23 PM  
**To:** mmurnane@mcsonj.org; Foley, Anna; ralphwarnick@comcast.net  
**Subject:** Worksheet #2 completed

**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet**

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?
8/24/09	5/25/78	NFIP Coordinator	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):</b>						
Construction permits cannot be issued for structures that are a flood plain. As a practical matter, this is not a problem, since all mapped flood plains are in publicly-owned open space that cannot be developed.						
<b>Describe barriers to running an effective NFIP program in the community (if applicable):</b>						
none						
When was most recent FEMA Community Assistance Visit (CAV) or Community Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to enforce the floodplain management requirements including new construction in Special Flood Hazard Areas (SFHAs)?	Does your community intend to participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* * Class _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?						
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
<b>*Describe any outstanding compliance issues (i.e., current violations):</b>						
None						

<p><b>Provide an explanation of your local floodplain permitting process:</b></p> <p>All flood plains are in open space owned either by the municipality or the State of New Jersey, Department of Environmental Protection, so no permitting process is needed.</p>									
<p>Does your community intend to continue floodplain identification and mapping services including any local requests for map updates?</p> <p><input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No</p>	<p>Does your community intend to initiate/continue the buyouts of repetitive loss properties?</p> <p><input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No</p>	<p>Does your community intend to commit staff or resources to improve local mapping or code administration in the future?</p> <p><input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No</p>	<p>Does your community intend to provide local outreach to promote the sale of flood insurance?</p> <p><input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No</p>	<p>Does your community intend to participate in RiskMAP meetings and planning initiatives?</p> <p><input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No</p>	<p>Does your community intend to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.?</p> <p><input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No</p>	<p>Does your community intend to continue to implement home improvement programs designed to minimize basement flooding?</p> <p><input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No</p>	<p>Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events?</p> <p><input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No</p>	<p>Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority?</p> <p><input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No</p>	<p>Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009?</p> <p><input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No</p>
<p>Does your community intend to adopt the new FEMA Advisory Base Flood Elevations?</p> <p><input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No</p>									
<p>As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan?</p> <p><input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No</p>									
<p>As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update?</p> <p><input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No</p>									
<p>* If you answered "yes", that there have been changes to your local program since 2009, please describe:</p>									
<p>Provide a description of your community assistance and monitoring activities:</p>									
<p>Since there is no flood hazard in any part of the Borough of Roosevelt other than municipal and State open space, no such activities are needed. Subject to confirmation by the NFIP, we believe that past claims were due to drainage obstructions on individual properties that have now been corrected.</p>									
<p>NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement?</p> <p><input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No</p>					<p>NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement?</p> <p><input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No</p>				

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: Dennis Peras Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Borough of Rumson Email and Phone: [dperas@rumsonnj.gov](mailto:dperas@rumsonnj.gov) 732-842-3300

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
2/42/43	42/24/73	Construction Officer	<input checked="" type="checkbox"/> Yes     No	<input checked="" type="checkbox"/> Yes     No	<input checked="" type="checkbox"/> Yes     No	<input checked="" type="checkbox"/> Yes     No	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):							
The Borough of Rumson provides information on FEMA requirements to residents, we have adopted and updated our ordinances, we review all permits to be sure everyone is compiling with FEMA requirements, we have held a number of information sessions for residents.							
Describe barriers to running an effective NFIP program in the community (if applicable):							
Explaining the NFIP costs to homeowners.... Specifically the cost differences between compliant and non compliant structures given the new Mapping. The unwarranted addition of V zone designations in what Rumson feels is a non V zone area.							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
1/2013	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes     No	<input checked="" type="checkbox"/> Yes     No	<input checked="" type="checkbox"/> Yes     No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* * Class _____	<input checked="" type="checkbox"/> Yes     No	<input checked="" type="checkbox"/> Yes     No
* Describe any outstanding compliance issues (i.e., current violations):							
none							
Provide an explanation of your local floodplain permitting process:							
The Borough of Rumson as adopted the 12/12 ABFE Mapping and is enforcing the same or the BFE, whichever is greater, with all building permit applications.							



Name: Dennis Peras Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Borough of Rumson Email and Phone: [dperas@rumsonnj.gov](mailto:dperas@rumsonnj.gov) 732-842-3300

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? X Yes     No	Does your community intend to initiate/continue the buyouts of repetitive loss properties? X Yes     No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? X Yes     No	Does your community intend to provide local outreach to promote the sale of flood insurance?     Yes X No	Does your community intend to participate in RiskMAP meetings and planning initiatives? X Yes     No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? X Yes     No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? X Yes     No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? X Yes     No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? X Yes     No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? X Yes     No				As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan? X Yes     No				As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? X Yes     No
* If you answered "yes", that there have been changes to your local program since 2009, please describe: ABFE adopted in 2/2013. The Borough of Rumson has also increased building height in all Zones in the Borough to allow for homes to be built out of the water table or above the flood elevation requirements.								
Provide a description of your community assistance and monitoring activities:  The Borough of Rumson has held Community Meetings and our Building and Zoning office provides information to residents.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? X Yes     No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? X Yes     No				
Note: NFIP policy statistics by community are maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1">http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1</a> NFIP claims data by community is maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1040.htm#34">http://bsa.nfipstat.fema.gov/reports/1040.htm#34</a> Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan. All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.								

Name: Read Murphy

Title: OEM Coordinator

Representing: Borough Of Sea Bright

email: councilmanmurphy@gmail.com

Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - *NFIP Worksheet*

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?
2013	1972	OEM Coordinator	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Provide an explanation of NFIP <b>administration</b> services (i.e., <b>permit review</b> , GIS, education or outreach, <b>inspections</b> , <b>engineering</b> capability):	During the permitting process, community meetings are held and the building department distributes information to local residents and businesses. Code enforcement continually reinforces the NFIP through inspection. At the completion of a project an elevation certificate is required to certify compliance. There has been a significant increase in promotion of the NFIP since Superstorm Sandy occurred.			
Describe barriers to running an effective NFIP program in the community (if applicable):	Residents lack knowledge of programs. Currently working on creating and implementing NFIP education program for community.			
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?
unknown	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):	It is needed. We are working to be in compliance with the CRS. We failed to stay current on the CRS rules and regulations. We attempted to reenter the CRS program in 2007; however, we were unsuccessful.	BFE + 2		

Name: Read Murphy  
 Representing: Borough of Sea Bright  
 Email: Councilmanmurphy@gmail.com

Title: OEM Coordinator

Provide an explanation of your local floodplain permitting process:	We have updated our ordinance and we require a stringent review on all repairs and new construction			
Does your community intend to continue floodplain identification and mapping services including any local requests for map updates?	Does your community intend to initiate/continue the buyouts of repetitive loss properties?	Does your community intend to commit staff or resources to improve local mapping or code administration in the future?	Does your community intend to provide local outreach to promote the sale of flood insurance?	Does your community intend to participate in RiskMAP meetings and planning initiatives?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations?	As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan?	As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update?	Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009?	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
•If you answered "yes", that there have been changes to your local program since	We have initiated a more stringent building code. All homes must elevate to 2 feet above the BFE			

Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update- NFIP Worksheet (February 2013) NFIP



Name: Peter Avakian Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Sea Girt Boro Email and PhoneIsavakian@aol.com 732.922.4498

Information provided by Timothy Harmon, Sea Girt OEM in conjunction with Mr. Avakian.

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?
2009	4981	Engineer	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):						
Peter Avakian is our engineer – email , direct contact with residents , evaluate flood elevations certificates with residents, permit review, mapping GIS, coordination with county and local officials						
Describe barriers to running an effective NFIP program in the community (if applicable):						
Effective NFIP program requires that the data we are working from be current and accurate; so far, this has not been the norm.						
When was most recent FEMA Community Assistance Visit (CAV) or Community Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
1 month ago	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* *Class _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):						
None to our knowledge and belief.						
Provide an explanation of your local floodplain permitting process:						
Plans are submitted by applicants to our Zoning Official; after zoning review, these documents are forwarded to our Engineer, also our Floodplain Administrator, for compliance with all other Borough ordinances and state statutes, including stormwater management rules and floodplain elevation requirements. Further compliance review is conducted by the Code Enforcement Officials, who ensure that all statutory construction requirements and inspections are completed.						



Name: Peter Avakian Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Sea Girt Boro Email and PhoneIsavakian@aol.com 732.922.4498

Information provided by Timothy Harmon, Sea Girt OEM in conjunction with Mr. Avakian.

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to initiate/continue the buyouts of repetitive loss properties? <input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to provide local outreach to promote the sale of flood insurance? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to participate in RiskMAP meetings and planning initiatives? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? <input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? <input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No		As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009? Yes *   <input type="checkbox"/> No		
* If you answered "yes", that there have been changes to your local program since 2009, please describe: We are currently waiting for updates to plans and mapping to look at our plan in place								
Provide a description of your community assistance and monitoring activities:								
Engineer and local officials monitor and reach out to locals residents with questions and answers to ensure compliance with local ordinance as well as review and plans for work. We also have a community compliance employee that monitors all activity in town								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? <input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No				

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJT>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: David Cranmer, PE Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: Shrewsbury Borough Email and Phone: dcranmer@shrewsburyboro.com 732 741-4200

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?
11/01/2009	8/1/1979	Zoning Officer	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):						
Zoning/Construction permit review, GIS mapping, engineering review and inspections.						
Describe barriers to running an effective NFIP program in the community (if applicable):						
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?
Unk.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* * Class _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
* Describe any outstanding compliance issues (i.e., current violations):						
Provide an explanation of your local floodplain permitting process:						
Development applications within designated floodplain areas are reviewed for compliance with flood hazard area regulations found at Section 122 of the Borough Code.						



Name: David Cranmer, PE Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: Shrewsbury Borough Email and Phone: dcranmer@shrewsburyboro.com 732 741-4200

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? [ x ] Yes     No	Does your community intend to initiate/continue the buyouts of repetitive loss properties?     Yes   x   No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? [ x ] Yes     No	Does your community intend to provide local outreach to promote the sale of flood insurance?     Yes   x   No	Does your community intend to participate in RiskMAP meetings and planning initiatives?     Yes   x   No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? [ x ] Yes     No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding?     Yes   x   No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? [ x ] Yes     No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority?     Yes   x   No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? [ x ] Yes     No		As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan? [ x ] Yes     No		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? [ x ] Yes     No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009?     Yes *   x   No		
* If you answered "yes", that there have been changes to your local program since 2009, please describe:								
Provide a description of your community assistance and monitoring activities:								
Building and Code Enforcement inspections used to ensure compliance with floodplain regulations during and after construction.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? [ x ] Yes     No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? [ x ] Yes     No				

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: Thomas J Herits PE PP PLS \_\_\_\_\_  
 Title: Engineer/Floodplain Manager/Floodplain Administrator/NFIP Coordinator \_\_\_\_\_  
 Representing: Shrewsbury Township \_\_\_\_\_  
 Email and Phone: therits@maserconsulting.com 732-261-7934 \_\_\_\_\_

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?
June 11, 2013	May 28, 2013	Code Enforcement Official and Township Engineer	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):						
Review development and permit applications, where applicable, to insure said development and/or building is safe from flooding.						
Describe barriers to running an effective NFIP program in the community (if applicable):						
N/A, no mapped floodplain in the Township						
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?
N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* *Class _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
* Describe any outstanding compliance issues (i.e., current violations):						
N/A						
Provide an explanation of your local floodplain permitting process:						
The Township will utilize a Development Permit with required information to determine if a project is in a floodplain and a checklist to insure all agency permits have been obtained.						



Name: Thomas J Herits PE PP PLS  
 Title: Engineer/Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: Shrewsbury Township  
 Email and Phone: therits@maserconsulting.com 732-261-7934

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does your community intend to initiate/continue the buyouts of repetitive loss properties? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does your community intend to provide local outreach to promote the sale of flood insurance? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does your community intend to participate in RiskMAP meetings and planning initiatives? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? <input type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? <input type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? <input type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? <input type="checkbox"/> Yes <input type="checkbox"/> No
As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? <input type="checkbox"/> Yes <input type="checkbox"/> No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
* If you answered "yes", that there have been changes to your local program since 2009, please describe: The Township recently entered the NFIP.								
Provide a description of your community assistance and monitoring activities:								
The Township will interpret FIRM boundaries, and will obtain and maintain actual lowest floor elevations of new or substantially improved structures. The Township will require certified as-builts.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: ALBERT P RAIZ Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: BOROUGH OF SPRING LAKE Email and Phone: SRAIZ@SPRINGLAKE.BORO.NJ.GOV

**732-449-0800 EXT 609**  
**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet**

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?
<u>1987</u>	<u>2/17/82</u>	<u>Construction Official</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):

The NFIP administration services provided are permit review, GIS, education, outreach and inspections.

Describe barriers to running an effective NFIP program in the community (if applicable):

Residents who are not insured and unable to obtain financial aid to enable them to satisfy any flood hazard mitigation requirements.

When was most recent FEMA Community Assistance Visit (CAV) or Community Contact (CAC)?*	Is a CAV or scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAS)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
<u>March, 2013</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <u>see BFE</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes* <input type="checkbox"/> No* <u>Class 8</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

\*Describe any outstanding compliance issues (i.e., current violations):

None

Provide an explanation of your local floodplain permitting process: The applicant provides all floodplain documentation for review before any issuance development, zoning or construction permits.



Name: ALBERT P. RAITZ Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: BOROUGH OF SPUNK LAKE Email and Phone: SRAIZ C SPUNK LAKE BORO, NJ  
732-449-0800 EXT 609

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to initiate/continue the buyouts of repetitive loss properties? <input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to provide local outreach to promote the sale of flood insurance? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to participate in RiskMAP meetings and planning initiatives? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No		As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan? <input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009? <input type="checkbox"/> Yes *   <input checked="" type="checkbox"/> No		
* If you answered "yes", that there have been changes to your local program since 2009, please describe:								
Provide a description of your community assistance and monitoring activities: <i>THE OFFICE OF EMERGENCY MANAGEMENT COORDINATES AND ASSIST IN RECOVERY EFFORTS. WORKS WITH BOROUGH IN DEVELOPING THE HAZARD MITIGATION PLAN.</i>								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No				

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: Sanoy Ratz, Jr. Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Borough of Spring Lake Heights Email and Phone: 732-449-3252 [sratz@springlakeboro.org](mailto:sratz@springlakeboro.org)

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?
1987 last rev. 1990	1/4/80	Construction Official	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):						
NFIP Administrative services include; Permitting, Review and Inspection						
Describe barriers to running an effective NFIP program in the community (if applicable):						
Wreck Pond is the main water body which impacts (fluvial) flooding in the Borough of Spring Lake Heights and the surrounding municipalities. This Fluvial flooding of this water body is attributed to the Flood management policies of Wall Township (inflow) and the Borough of Spring Lake (outfall)						
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned? * zoning officer received NFPM cert 2/2013	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?
Scheduled	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* * Class _____	<input type="checkbox"/> Yes <input type="checkbox"/> No Currently initiated
* Describe any outstanding compliance issues (i.e., current violations):						
None						
Provide an explanation of your local floodplain permitting process:						
Administration of floodplain compliance through construction code official and Regional Department						



Name: Sanoy Ratz, Jr. Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Borough of Spring Lake Heights Email and Phone: 732-449-3252 [sratz@springlakeboro.org](mailto:sratz@springlakeboro.org)

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates?	Does your community intend to initiate/continue the buyouts of repetitive loss properties?	Does your community intend to commit staff or resources to improve local mapping or code administration in the future?	Does your community intend to provide local outreach to promote the sale of flood insurance?	Does your community intend to participate in RiskMAP meetings and planning initiatives?	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.?	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding?	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events?	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority?
<input checked="" type="checkbox"/> Yes     No	<input checked="" type="checkbox"/> Yes     No	<input checked="" type="checkbox"/> Yes     No	<input checked="" type="checkbox"/> Yes     No	<input checked="" type="checkbox"/> Yes     No	<input checked="" type="checkbox"/> Yes     No	<input checked="" type="checkbox"/> Yes     No	<input checked="" type="checkbox"/> Yes     No	<input checked="" type="checkbox"/> Yes     No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations?								
<input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No - Boro intends to adopt prelim working maps								
<p><b>* If you answered "yes", that there have been changes to your local program since 2009, please describe:</b></p>								
<p><b>Provide a description of your community assistance and monitoring activities:</b></p>								
<p>Community assistance; review construction application for compliance with floodplain management requirements, inspection and information. Monitoring Activities - Storm water structure annual maintenance and inspection, Monitoring of environmental encroachments within flood areas and environmentally sensitive areas.</p>								
<p>NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement?</p>								
<input checked="" type="checkbox"/> Yes     No								

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJT>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Name: David M. Marks

Representing: Borough of Tinton Falls Email and Phone: engineer@tintonfalls.com (732) 542-3400 x214

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - **NFIP Worksheet**

Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
<u>9-25-2009</u>	4 / 15 / 82	<u>David M. Marks, Borough Engineer</u>	[ <input checked="" type="checkbox"/> ] Yes [ ] No	[ <input checked="" type="checkbox"/> ] Yes [ ] No	[ <input checked="" type="checkbox"/> ] Yes [ ] No	[ <input checked="" type="checkbox"/> ] Yes [ ] No	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):							
<u>Review of Zoning Permits as required (1st step prior to Building Permits), NFIP review also conducted as part of Zoning and Planning Board technical review process.</u>							
Describe barriers to running an effective NFIP program in the community (if applicable):							
<u>Limited local funds available for mitigation initiatives. Policy and process is adequately funded through existing budgets and staff. Additional state or federal funds earmarked for hazard mitigation is needed to implement plan.</u>							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
<u>May 2013</u>	[ ] Yes [ <input checked="" type="checkbox"/> ] No	[ ] Yes [ <input checked="" type="checkbox"/> ] No	[ ] Yes [ <input checked="" type="checkbox"/> ] No	[ <input checked="" type="checkbox"/> ] Yes [ ] No	[ ] Yes* [ <input checked="" type="checkbox"/> ] No * Class _____	[ ] Yes [ ] No	[ <input checked="" type="checkbox"/> ] Yes [ ] No
*Describe any outstanding compliance issues (i.e., current violations):							
<u>None</u>							
Provide an explanation of your local floodplain permitting process:							



Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Name: David M. Marks

Email and Phone: engineer@tintonfalls.com (732) 542-3400 x214

Representing: Borough of Tinton Falls

**As applications are made for Zoning Permits, they are reviewed for compliance to the NFIP. Assessments are also made with respect to NJDEP Flood Hazard Area Regulations. Consideration is also given to other environmental factors not related to Special Flood Hazard Areas (i.e. – wetlands).**

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? [ <input checked="" type="checkbox"/> ] Yes [ ] No	Does your community intend to initiate/continue the buyouts of repetitive loss properties? [ <input checked="" type="checkbox"/> ] Yes [ ] No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? [ <input checked="" type="checkbox"/> ] Yes [ ] No	Does your community intend to provide local outreach to promote the sale of flood insurance? [ <input checked="" type="checkbox"/> ] Yes [ ] No	Does your community intend to participate in RiskMAP meetings and planning initiatives? [ <input checked="" type="checkbox"/> ] Yes [ ] No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? [ <input checked="" type="checkbox"/> ] Yes [ ] No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? [ <input checked="" type="checkbox"/> ] Yes [ ] No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? [ <input checked="" type="checkbox"/> ] Yes [ ] No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? [ <input checked="" type="checkbox"/> ] Yes [ ] No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? [ ] Yes [ <input checked="" type="checkbox"/> ] No ( <u>not applicable</u> )		As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan? [ ] Yes [ <input checked="" type="checkbox"/> ] No		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update? [ <input checked="" type="checkbox"/> ] Yes [ ] No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009? [ ] Yes * [ <input checked="" type="checkbox"/> ] No		
* If you answered "yes", that there have been changes to your local program since 2009, please describe:								
Provide a description of your community assistance and monitoring activities:								
<b><u>Continued evaluation of properties as they submit for building additions, renovations, new construction through the Zoning Permit/Building Permit Process.</u></b>								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement? [ <input checked="" type="checkbox"/> ] Yes [ ] No				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement? [ <input checked="" type="checkbox"/> ] Yes [ ] No				
Note: NFIP policy statistics by community are maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1">http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1</a> NFIP claims data by community is maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1040.htm#34">http://bsa.nfipstat.fema.gov/reports/1040.htm#34</a> Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan. All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.								



Name: **Bob Burlaw** Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Borough of Union Beach Email and Phone: ubconstruction@optonline.net (732) 739-1503

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
2/24/2043	4989	Construction Official	<input checked="" type="checkbox"/> Yes     No	<input checked="" type="checkbox"/> Yes     No	<input checked="" type="checkbox"/> Yes     No	<input checked="" type="checkbox"/> Yes     No	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):							
Permit Review, Inspection and Outreach.							
Describe barriers to running an effective NFIP program in the community (if applicable):							
There are none.							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
44/2042 after Hurricane	<input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes     No Ordinance requires two feet of freeboard as opposed to one.	<input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes*     No * Class 8	<input checked="" type="checkbox"/> Yes     No	<input type="checkbox"/> Yes     No	<input type="checkbox"/> Yes     No
*Describe any outstanding compliance issues (i.e., current violations):							
The Borough of Union Beach was delayed in holding their required floodplain public hearing due to the Hurricane Sandy.							



Name: **Bob Burlew** Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: Borough of Union Beach Email and Phone: ubconstruction@optonline.net (732) 739-1503

**Provide an explanation of your local floodplain permitting process:**

Homeowners are required to submit an elevation certificate with their construction permit for new construction and/or reconstruction. The Construction Official (Bob Burlew) will review project for substantially damaged, if applicable, and issue letters if necessary. In addition, the Bob Burlew will review all new construction and/or reconstruction permits for compliance with the ABFE or the BFE.

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates?	Does your community intend to initiate/continue the buyouts of repetitive loss properties?	Does your community intend to commit staff or resources to improve local mapping or code administration in the future?	Does your community intend to provide local outreach to promote the sale of flood insurance?	Does your community intend to participate in RiskMAP meetings and planning initiatives?	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.?	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding?	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events?	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority?
<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	<input type="checkbox"/> Yes   <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No
<p>Does your community intend to adopt the new FEMA Advisory Base Flood Elevations?</p> <p><input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No</p>								
<p>* If you answered "yes", that there have been changes to your local program since 2009, please describe:</p>								
<p>Borough updated the new ABFEs on February 24, 2043.</p>								
<p>Provide a description of your community assistance and monitoring activities:</p>								
<p>The Borough notifies residents by mail, newsletters and updates information on their website about funding programs and changes in regulations and/or advisory information about flooding and reducing flood insurance costs.</p>								
<p>NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement?</p> <p><input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No</p>				<p>NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement?</p> <p><input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No</p>				
<p>Note: NFIP policy statistics by community are maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ">http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ</a>            NFIP claims data by community is maintained at: <a href="http://bsa.nfipstat.fema.gov/reports/1040.htm#34">http://bsa.nfipstat.fema.gov/reports/1040.htm#34</a>            Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.            All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.</p>								



Name: MIKE CONROY

Title: Emergency Management Coordinator / NFIP Coordinator

Representing: UPPER FREEHOLD TOWNSHIP

Email and Phone: [MCONROY@UFTNJ.COM](mailto:MCONROY@UFTNJ.COM) (609) 548-7191

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
1/1/2011	10/2/1979	Ronald Gafgen / Land Use/Community Planner and Building Code Official	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):							
permit review, inspections, flood plain education/awareness, engineering capability							
Describe barriers to running an effective NFIP program in the community (if applicable):							
Not applicable							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
2010	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):							
Not applicable							
Provide an explanation of your local floodplain permitting process:							
UFT does not issue permits in the flood plain areas							



Name: MIKE CONROY

Title: Emergency Management Coordinator / NFIP Coordinator

Representing: UPPER FREEHOLD TOWNSHIP

Email and Phone: [MCONROY@UFTNJ.COM](mailto:MCONROY@UFTNJ.COM) (609) 548-7191

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates?	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future?	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to provide local outreach to promote the sale of flood insurance?	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to participate in RiskMAP meetings and planning initiatives?	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.?	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding?	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events?	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority?	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations?	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan?	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update?	<input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No	Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009?									
* If you answered "yes", that there have been changes to your local program since 2009, please describe:															
Not applicable															
Provide a description of your community assistance and monitoring activities:															
UFT DPW proactively reviews the conditions in recurrent flood areas in addition to responding to reported incidents.															
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement?								NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement?							
<input checked="" type="checkbox"/> Yes								<input checked="" type="checkbox"/> Yes							

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJT>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.



Name: Paul Rabenda Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: Wall Township Email and Phone: prabenda@townshipofwall.com 732-449-8444 Ext. 224

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?	
9-9-2009	4974	Construction Official	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):							
Permit review, GIS, Education & Outreach, Inspection, Answer Resident's Questions							
Describe barriers to running an effective NFIP program in the community (if applicable):							
N/A							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No*	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):							
N/A							
Provide an explanation of your local floodplain permitting process:							
Proposed development requires a permit that is required by the NJDEP, review of all development applications by Land Use GIS specialist and Flood Plains Administrator							





Name: Paul Habermann Title: Emergency Management Coordinator

Borough of West Long Branch Email and Phone: [phabermann@westlongbranch.org](mailto:phabermann@westlongbranch.org) 732-229-5000 ext 212

### Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update - NFIP Worksheet

*Note: All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. The Borough of Freehold and Township of Shrewsbury are the only Monmouth County communities that do not participate in the NFIP and, therefore, do not need to complete this worksheet.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP	Position or Title of Your Jurisdiction's Manager/Administrator (may also be called NFIP Coordinator)	Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Does your community intend to continue to commit staff resources to improving local mapping and/or code administration?	Is your community in good standing with the NFIP?
2009	4/46/4984	Construction Official	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability):						
The NFIP administration services provided are permit review, GIS, education, outreach and inspections.						
Describe barriers to running an effective NFIP program in the community (if applicable):						
Residents who are not insured and unable to obtain financial aid to enable them to satisfy any flood hazard mitigation requirements.						
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?
1/13	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* *Class _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No N/A
*Describe any outstanding compliance issues (i.e., current violations):						
None. The majority of the Borough of West Long Branch is located outside of the 100 year flood plan.						
Provide an explanation of your local floodplain permitting process:						
Building Permit: During the application process, the planning board reviews all applications for proper compliance with the State Uniform Construction Code.						



Name: Paul Habermann Title: Emergency Management Coordinator

Borough of West Long Branch Email and Phone: [phabermann@westlongbranch.org](mailto:phabermann@westlongbranch.org) 732-229-5000 ext 212

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates? <input type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to initiate/continue the buyouts of repetitive loss properties? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to provide local outreach to promote the sale of flood insurance? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to participate in RiskMAP meetings and planning initiatives? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
* If you answered "yes", that there have been changes to your local program since 2009, please describe:  N/A								
Provide a description of your community assistance and monitoring activities:  The Borough of West Long Branch operates an Office of Emergency Management to coordinate and assist in any recovery efforts when necessary. In the process of further developing the Borough's Hazard Mitigation Plan. Also, developing improvements to Borough's web site for community notifications.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.

**APPENDIX 1.5 – WORKSHEET 3: LAND USES AND DEVELOPMENT TRENDS**



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

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Performing an assessment of Land Uses and Development Trends is one step of a FEMA-approved hazard mitigation plan update. This look into the future is important because development in hazard areas could put more assets at risk and, in turn, could work to increase potential disaster-related damages at a time when the mitigation plan's purpose is to reduce the potential for damages emanating from natural disasters. Land uses and development trends are based on the construction of new buildings, demolition of old buildings, or the planning, zoning or subdivision of new areas for development. A stagnant or decreasing population alone is not reason for stating that no development has occurred unless backed up by a lack of development.

An evaluation of land uses and development trends was undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Land Uses and Development Trends section are included in the pages to follow, documenting your community's prior feedback. Please review your community's feedback shown in the table on the pages to follow, and identify any changes that have occurred since that time. Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Please check box A or B below.**

- A) I certify that I have reviewed my community's feedback from the 2009 Land Uses and Development Trends assessment and that all information previously provided is still current.** *(If checking box A, then please return only this cover page.)*
  
- B) I certify that I have reviewed my community's feedback from the 2009 Land Uses and Development Trends assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below.** *(If checking box B, then please return this completed cover page and any pages with markups.)*

**See Attached Sheet — Aberdeen Township**

**Name:** Timothy W. Gillen, PE

**Title:** Township Engineer

**Representing:** Aberdeen Township

**Email and Phone:** TGillen@CMEUSA1.com

Table 3d.6

Summary of Responses

Land Uses and Development Trends Questionnaire

(Source: Core Planning Group Members)

Community	1. Land Uses and Development Trends in Hazard Areas	2. Regulations/Codes/Ordinances To Protect New Development From Natural Hazards
<p>Aberdeen, Township of</p> <p>The Township has very little remaining vacant land available and suitable for development. Therefore, the predominant development occurring in the Township in the recent years is on single, small lots with in-fill development or the redevelopment of existing sites, both for residential and non-residential uses.</p> <p>The Township has identified a number of larger areas for redevelopment, some of which have been designated as Redevelopment Areas under the Local Redevelopment And Housing Law. The areas either identified or designated are as follows:</p> <ul style="list-style-type: none"> <li>• A "Commerce &amp; Transportation Center" Redevelopment Area has been designated on lands in the vicinity of the Aberdeen/Matawan Train Station. <del>The subject land area is coupled with land area in Matawan Borough. At this time, the formulation of the Redevelopment Plan and the appointment of a redeveloper are still under discussion. The Redeveloper has been designated and the Redevelopment Plan proposes two - phased construction of a total of 8000sf retail, 6050sf resident amenity center and 232 residential units of which 23 are affordable.</del></li> <li>• A "Planned Adult Community Redevelopment Area" as a Redevelopment Area has been designated on lands (approx. 183 acres) in the Freneau portion of the Township where public sewer and water service are proposed to be extended to serve both the existing and proposed developments. Development approvals under the enabling ordinances have been granted for the redevelopment of this area for 521 age-restricted dwelling units plus 68 non-age restricted affordable housing units; however, the developments have yet to be built. <u>Subsequently, 22 acres have been acquired for Open Space, 20 additional acres are under negotiation for acquisition, and the remaining area is being considered for limitation of development to 240 residential units on 40 acres +/- with the remainder of the lands as conservation easement.</u></li> <li>• A designated "Age-Restricted Affordable Housing" zoning district was created for a 13.8 acre brownfield site formerly owned by the South River Metal Products Company which permits the municipally sponsored development of up to 154 age-restricted apartments; and</li> <li>• A Redevelopment Area has been designated on the Anchor Glass Manufacturing Facility of 50.55 acres for a Planned Unit Development with up to approximately 8290,000 square feet of retail/office space, <u>50750 dwelling units (of which 110 are affordable) a theater and a hotel - no specific provisions or plans have been developed at this time. Plans are being submitted to the Planning Board for the June 2013 meeting.</u></li> </ul>	<p>The Land Development Ordinance (LDO) of the Township of Aberdeen contains specific provisions to protect environmentally critical areas from the negative effects of development, as follows:</p> <ol style="list-style-type: none"> <li>1. A "Conservation/Recreation" zoning district (Section 408) has been established in the Township for most of the marshland and wetlands of the Raritan Bay and associated stream corridors of Whale, Long Neck and Matawan creeks. This zoning district limits the types of permitted development to farms, boat yards and other similar marina uses, restaurants, and conservation areas, public parks and other similar public purpose uses. All permitted land uses must have a "definite relationship to the estuarial zone" and be approved by NJDEP, where required.</li> <li>2. All residential development is required to be located a minimum of 100 feet from any existing or proposed detention or retention basin, pond, lake or other water body or course, as measured from the highest topographic grade of said water body or course (Section 401 G.).</li> <li>3. Section 514 of the LDO regulates retaining walls, embankment slopes and bulkheads. Slope returns for embankments are limited to a 3 to 1 slope. Bulkheads or other appropriate permanent bank stabilization acceptable to the Board are required for all development on or along waterways, and the design must be approved by the Township Engineer.</li> <li>4. Section 523 of the LDO regulates Surface Water Management and Section 524 regulates Stormwater Management consistent with the new NJDEP regulations.</li> <li>5. Section 608 of the LDO regulates and protects "Critical Areas" which are defined by ordinance as 100-year flood plains, freshwater wetlands, wetlands transition areas or steep slopes 15% or greater. Stream corridors with buffer strips of 100 feet in width from the top of the channel banks or the flood plain area, if larger, also are regulated and protected from most types of development. All development in the Township is subject to the provisions of this section of the LDO. Design or performance standards are included within the regulations for those developments that are permitted when variances or waivers are granted.</li> <li>6. In addition to the specific LDO regulations, the Township of Aberdeen has adopted Master Plan documents which recommend the protection of environmentally sensitive areas and the provision for open spaces and recreation areas. When variances from the LDO are sought, an applicant must show that there is no substantial detriment to the intent and purpose (negative criteria) of these Master Plan documents.</li> </ol>	



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Land Uses and Development Trends Update*

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Name:      Robert Richter

Title:      Chief of Police

Representing:      Borough of Allenhurst

Email and Phone:      copnj1301@yahoo.com 732-532-2255



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Land Uses and Development Trends Update

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Name:  Daniel Panckeri

Title:  Deputy OEM

Representing:  Allentown Borough

Email and Phone:  dpanckeri@comcast.net 609-259-3491



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**Name:** Joe Cunha\_\_\_\_\_

**Title:** City Engineer / DPW Director\_\_\_\_\_

**Representing:** The City of Asbury Park\_\_\_\_\_

**Email and Phone:** [joe.cunha@cityofasburypark.com](mailto:joe.cunha@cityofasburypark.com) 732-775-0900



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

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**Name:** ADAM HUBENY

**Title:** BOROUGH ADMINISTRATOR / OEM COORDINATOR

**Representing:** BOROUGH OF ATLANTIC HIGHLANDS

**Email and Phone:** AHUBENY@AHNJ.COM 732-291-1444  
X 3101

## **Borough of Atlantic Highlands**

### Land Uses and Development Trends in Hazard Areas

For the most part, Atlantic Highlands is a "Built-Out" community. The Borough has 2 waterfront properties still undeveloped although they are currently used for commercial purposes.

1) McConnell Property - Former site a fuel farm. 2 huge Esso tanks were on property and dismantled in 1986. Property was recently remediated. The property is zoned for 19 single family homes. The Borough wants to purchase the property but it's big dollars – 6 million plus. Borough would want to preserve for open space - extension of current beach area.

2) Guiliani property - former home of a contracting company. Now a boat storage facility although the property was recently purchased by SeaStreak LLC, the local fast ferry company that transports people to New York City and back daily. Property is possibly contaminated from 1920's Coal Manufacturing plant that is owned by NJ Natural Gas Co. Borough wanted to buy this piece of property to extend the Borough owned Municipal Harbor. The Borough had restraints against the purchase from COAH.

Other areas along the waterfront are not buildable. Some buyers are taking down smaller homes and building larger homes on the property. Biggest issue for the Borough is water runoff/erosion. New or old - this is the real challenge. Borough has 7 condo/high density apartment complexes. Anything built in the hills must meet steep slope ordinance requirements. One former restaurant parcel, 3 acres, has since been replaced with 2 new homes.

### Regulations / Codes / Ordinances to Protect New Development from Natural Disasters

As provided in the first request:

- 1) Steep slope ordinance which has been upheld by Supreme Court in 3 challenges.
- 2) Land use regulations.
- 3) Stormwater Management Ordinance
- 4) Flood Plain / ABFE & Ordinance



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Land Uses and Development Trends Update

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**Name: \_Kenneth**  
**Child** \_\_\_\_\_

**Title: \_\_Emergency Management Coordinator**  
\_\_\_\_\_

**Representing: \_\_Avon By The Sea**

**Email and Phone: \_\_kenchild@optonline.net 732-904-6186**



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

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**Name: Colleen Connolly**

**Title: Business Administrator**

**Representing: Borough of Belmar**

**Email and Phone: cconnolly@boro.belmar.nj.us**

**Table 3d.6**  
**Summary of Responses**  
**Land Uses and Development Trends Questionnaire**  
*(Source: Core Planning Group Members)*

Community	1. Land Uses and Development Trends in Hazard Areas	2. Regulations/Codes/Ordinances To Protect New Development From Natural Hazards
Belmar, Borough of	We are a one sq. mile municipal located on the east coast of central New Jersey. The community consists mostly of single family homes. We are currently updating our Business Zone by re-building and redesigning a 6 block area. We are a summer resort with a year round population of about 6,000.	Belmar participates in the NFIP and enforced codes and ordinances regarding same.  <u>Belmar has adopted the ABFE maps (2013) and has adopted modifications to our residential home height ordinance to encourage home elevations.</u>  <u>All building regulations pertaining to wind, flood and hurricane are enforced by the building department.</u>
Bradley Beach, Borough of	Bradley Beach is primarily a residential community with mixed use retail / residential and office / residential along the Main Street Corridor at the west edge of the Borough. The majority of the Borough is zoned single family residential except for the aforementioned mixed use zone and townhouse and apartment used permitted along the beachfront block. The Borough is fully developed with no vacant property available for development. Development is limited to demolition and construction of wither single family homes throughout the Borough or small condominium projects or larger lots in the beachfront area.	The Borough of Bradley Beach enforces floodplain management regulations and all FEMA regulations regarding natural hazards. There are no steep slopes or potential earthquake or landslide areas in the Borough. Building regulations related to high winds and hurricanes design standards are enforced by the Borough's Building Department.
Brielle, Borough of	Brielle is 1.3 square miles and there is little room for development. The trend is toward minor subdivisions, in particular in the area east of Union Land, between Old Bridge Road and Green Avenue, where the required frontage is 75 feet and the trend is for the division of 100 foot lots into 50 foot lots. The trend is distressing, but hard to stop. The few remaining commercial areas, i.e. marinas, are in danger of going condominium. While the increase in density is manageable; it cannot but help to adversely impact the overall quality of life.	The Borough has enacted a Flood Plain Management Ordinance and has supplemented it with a Stormwater Management Ordinance and Soil Removal.
Brookdale Community College	Brookdale Community College operates academic, administrative and support facilities in excess of 1 million square feet on 200 acres of land in the Lincroft section of Middletown Township. The College also operates individual facilities in Hazlet, Wall, Long Branch and Freehold. The College leases space in Neptune and on Sandy Hook. Expansion of the Lincroft Campus is expected to include the renovation of the Collins Arena and development of a 32,000 sq. ft multi-purpose activity center as well as a 9,600 sq. ft. expansion of the Auto Technology center. Future plans include expansion of the College facilities in Freehold and in Wall.	Not Applicable – The College complies with all relevant Federal, state and county land use regulations. The College does not have the statutory authority to adopt regulations of development. The College does not have the statutory authority to enforce development regulations.
Colts Neck, Township of	Historically development in the Township of Colts Neck consists of agriculture and detached single family dwellings. The A-1 Agriculture/ Residential Zone is a two acre zone with a density of 0.1 dwellings per acre. Over the past five years the Township has issued 110 certificates of occupancy and 37 demolition permits for a net gain of 73 dwellings. This averages 15 dwellings per year. This trend is anticipated to decline in the near future, due to a lack of vacant land and current market conditions. The only multifamily development plan is The Manor Homes at Colt Neck. A 48 unit inclusionary development proposed in Route 537. Commercial development is limited to the Route 34 corridor between Artisan Place and Route 18. Due to a reliance of on-site well and septic systems, the density of the commercial	The Township Code Enforcement Officer enforces the Township's local ordinances published in Chapter 102 - Development Regulations of the Township of Colts Neck. The Construction Official enforces building code through compliance with the Universal Construction Code (UCC). The State of New Jersey oversees State regulations including the Freshwater Wetlands, Stream Encroachment, Highway Access, Stormwater Management, Residential Site Improvement Standards and other State permits. While Federal regulations such as FEMA and Soil Erosion and Sediment Control Plans are administered by Federal Agencies. Compliance with these outside agencies requirements are addressed as part of the planning process within each individual Planning Board



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

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Name: NormanGoldfarb

Title: FirstDeputyCoordinatorOEM/Councilman

Representing: BoroughofBradleyBeach

Email \_\_\_\_\_ and \_\_\_\_\_

Phone: goldline@optonline.net7327756900

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## Land Uses and Development Trends Update

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Name: Alan P. Hilla, Jr.

Title: Borough Engineer

Representing: Borough of Brielle

Email ahillajr@birdsall.com and Phone: 732-380-1700, ext. 1216



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*Land Uses and Development Trends Update*

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**Name:** Timothy Anfuso

**Title:** Township Planner

**Representing:** Colts Neck Township

**Email and Phone:** cnplanners@optonline.net

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Brielle, Borough of	Brielle is 1.3 square miles and there is little room for development. The trend is toward minor subdivisions, in particular in the area east of Union Land, between Old Bridge Road and Green Avenue, where the required frontage is 75 feet and the trend is for the division of 100 foot lots into 50 foot lots. The trend is distressing, but hard to stop. The few remaining commercial areas, i.e. marinas, are in danger of going condominium. While the increase in density is manageable; it cannot but help to adversely impact the overall quality of life.	The Borough has enacted a Flood Plain Management Ordinance and has supplemented it with a Stormwater Management Ordinance and Soil Removal.
Brookdale Community College	Brookdale Community College operates academic, administrative and support facilities in excess of 1 million square feet on 200 acres of land in the Lincoft section of Middletown Township. The College also operates individual facilities in Hazlet, Wall, Long Branch and Freehold. The College leases space in Neptune and on Sandy Hook. Expansion of the Lincoft Campus is expected to include the renovation of the Collins Arena and development of a 32,000 sq. ft multi-purpose activity center as well as a 9,600 sq. ft. expansion of the Auto Technology center. Future plans include expansion of the College facilities in Freehold and in Wall.	Not Applicable – The College complies with all relevant Federal, state and county land use regulations. The College does not have the statutory authority to adopt regulations of development. The College does not have the statutory authority to enforce development regulations.
Colts Neck, Township of	Historically development in the Township of Colts Neck consists of agriculture and detached single family dwellings. The A-1 Agriculture/ Residential Zone is a two acre zone with a density of 0.54 dwellings per acre. <del>The AG Agricultural zone is a 10 acre zone with a density of 0.1 units per acre.</del> Over the past five years the Township has issued 55449 certificates of occupancy and 2137 demolition permits for a net gain of 34.73 new dwellings. This averages 6.845 dwellings per year and is <del>less than half of the new growth experienced in the previous five years.</del> <del>This declining trend is anticipated to continue to decline</del> in the near future, due to a lack of vacant land and current market conditions. The only multifamily development plan is The Manor Homes at Colts Neck. A 48 unit inclusionary development proposed in Route 537. Commercial development is limited to the Route 34 corridor between Artisan Place and Route 18. Due to a reliance of on-site well and septic systems, the density of the commercial zone is kept low with a 0.15 floor area ratio. Development in the Borough of Deal is limited to single family residential dwellings.	The Township Code Enforcement Officer enforces the Township's local ordinances published in Chapter 102 - Development Regulations of the Township of Colts Neck. The Construction Official enforces building code through compliance with the Universal Construction Code (UCC). The State of New Jersey oversees State regulations including the Freshwater Wetlands, <del>Stormwater Management, Residential Site Improvement Standards and other State permits.</del> While Federal regulations such as FEMA and Soil Erosion and Sediment Control Plans are administered by Federal Agencies. Compliance with these outside agencies requirements are addressed as part of the planning process within each individual Planning Board Application.
Deal, Borough of	Development in the Borough of Deal is limited to single family residential dwellings.	The Borough of Deal enforces the laws of New Jersey regarding the protection of



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

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**Name:** Peter R. Avakian, P.E.

**Title:** Floodplain Administrator

**Representing:** Borough of Deal

**Email and Phone:** Ph: 732-922-9229 Isavakian@aol.com



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
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**Name:** William Mego

**Title:** Coordinator OEM

**Representing:** Borough of Eatontown

**Email and Phone:** wmego45@verizon.net 732-904-6950



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Land Uses and Development Trends Update*

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Name: \_\_\_\_\_ **JOSEPH MCGOVERN**

Title: \_\_\_\_\_ **POLICE LT./OEM**

Representing: \_\_\_\_\_ **BOROUGH OF FAIR HAVEN**

Email and Phone: \_\_\_\_\_ **JMCGOVERN@FHBORO.NET**      **732-747-0241 X324**



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

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**Name:** Helene Schlegel

**Title:** OEM Coordinator

**Representing:** Farmingdale Borough

**Email and Phone:** hschlegel@twp.howell.nj.us 732-938-4500 ext 2102



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Land Uses and Development Trends Update

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**Name:** Henry A. Stryker III \_\_\_\_\_

**Title:** OEM Coordinator \_\_\_\_\_

**Representing:** Freehold Borough \_\_\_\_\_

**Email and Phone:** hstryker@freeholdboro.org 732-462-4903 \_\_\_\_\_

**Table 3d.6**  
**Summary of Responses**  
**Land Uses and Development Trends Questionnaire**  
*(Source: Core Planning Group Members)*

Community	1. Land Uses and Development Trends in Hazard Areas	2. Regulations/Codes/Ordinances To Protect New Development From Natural Hazards
Eatontown, Borough of	<p>1) Multi-family Townhouse developments – upward of 300 units with 1,000 new residents</p> <p>2) Expansion of regional shopping mall 50,000 square ft. Type 1 construction. Population will vary on times of years.</p> <p>3) New business in Industrial Park Area - 2 business complexes Type 1 100,000+ sq ft.</p> <p>1 medical office/Operating Room 25,000 sq ft Type 1</p> <p>4) approval on new Rt 35 - Rt 36 Construction to soon facilitate movement of traffic.</p> <p>Englishtown is a half-square mile community that is for the most part completely built out except for two land tracks. One has plans for four to six single family homes and the other track is going to be 8 apartment buildings with a total of 134 apartments.</p> <p>At this time the only land available is lots that 1 or 2 houses can be built on. No major building is expected.</p>	DEP Standards, NJ Building Code, NEPA Standards, OSHA, Boro of Eatontown Codes, Stormwater Management of NJ DEP, Electrical codes, State DOT.
Englishtown, Borough of	Farmingdale is a very small (1.5 sq. mile) Borough with limited development. Spot lot residential and limited commercial construction takes place sporadically.	N/A
Fair Haven, Borough of	The Borough of Freehold is approximately 95% built out. At the present time there are two residential developments proposed both are located on Orchard Street in the southeast area of the municipality. One development has already been approved and is in the process of being built - Liberty Crossing 1 consists of 12 two story single family homes to be built on the west side of Orchard Street. At the time the last plan was prepared, Liberty Crossing 2 was before the Borough of Freehold Planning Board, consisting of a four story age restricted condominiums. Level 1 was to be used as a parking garage and levels 2, 3 & 4 as 30 condominiums. This project was approved by the Board, but has since been terminated. Presently, Orchard Place at Freehold is before the Planning Board for this site. It consists of seven, 2-family homes and one 1-family home. In terms of commercial development since the last plan was prepared, the three story office building at 83 South Street has been completed. Another three story office building has been completed at 42 East Main Street. Previous plans for a two story commercial building (first floor retail, second floor office) at 63 East Main Street (corner of Spring Street) were approved at the time the initial plans were prepared, but the project has since been terminated.	Yes, if the building were to affect an area.
Farmingdale, Borough of	The Borough of Freehold does not appear on any FEMA Flood Maps due to the fact that it is located 178 feet above sea level and there are no streams, rivers or lakes in the Borough. The only flooding problems are localized during times of extremely heavy rainfall because of an antiquated storm drainage system in some areas. The Borough of Freehold enforces the State Uniform Construction Code which adopts the 2009 <del>2446</del> International Building Code and has provisions for earthquake resistant design criteria and high wind design criteria. There are no wildfire hazard areas located in the Borough of Freehold. In September of 2009 the Borough of Freehold adopted a Flood Damage Prevention Ordinance, and has recently sent in its application for participation in FEMA's National Flood Insurance Program.	Within our limited development, yes.
Freehold, Borough of	Although the Township has experienced significant growth over the last three	The Land Use Ordinance discourages development in critical Areas: 100 Year



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

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**Name:** Timothy P. White \_\_\_\_\_

**Title:** Township Engineer \_\_\_\_\_

**Representing:** Township of Freehold \_\_\_\_\_

**Email and Phone:** [twhite@twp.freehold.nj.us](mailto:twhite@twp.freehold.nj.us) (732) 294-2070 \_\_\_\_\_



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
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**Name:** SharonKeegan

**Title:** Zoning Officer

**Representing:** Hazlet Township

**Email and Phone:** skeegan@hazletwp.org 732-264-1700 extenson 8656



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Land Uses and Development Trends Update*

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**In addition to the 2009 assessment, the Borough has recently adopted more stringent regulations for developing within a steep slope area and has currently revised its Flood Damage Prevention Ordinance. Further, the Borough is currently pursuing enrollment in the NFIP Community Rating System.**

**Name: \_\_Dale R. Leubner**

**Title: \_\_Zoning Officer and Floodplain Administrator**

**Representing: \_\_Borough of Highlands**

**Email and Phone: \_\_dleubner@tandmassociates.com 732-671-6400 ext. 1240**

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**Table 3d.6**

**Summary of Responses**

**Land Uses and Development Trends Questionnaire**

*(Source: Core Planning Group Members)*

Community	1. Land Uses and Development Trends in Hazard Areas	2. Regulations/Codes/Ordinances To Protect New Development From Natural Hazards
<p>Hazlet, Township of</p>	<p>Many various projects approved or pending and under construction currently; Details provided by Sharon A. Keegan, Zoning Official.</p>	<p>The Township utilizes a Development Review Ordinance that regulates all property within its boundaries. The intent of the ordinances is to guide the appropriate use of development of all lands in a manner that promotes the public health, safety, morals and general welfare. To secure safety from fire, panic and other natural or manmade disasters. The following ordinances are some of the ways the township regulates new development from the effects of a natural hazard.</p> <ol style="list-style-type: none"> <li>1. Section 412 - Flood Hazard Regulations-designed to regulate development of lands within the defined flood hazard areas.</li> <li>2. Section 500 - Performance \$ Design Standards - designed to promote the creation of functional and attractive development that shall promote to the health, safety, general welfare, morals, efficiency, economy, maintenance of property values and the character of the Township. To minimize adverse impacts of flooding, drainage, erosion vehicular traffic, pedestrian movement, parking, vibration, lighting and glare, noise, odor, solid waste disposal and litter.</li> <li>3. Section 508 Land Use Restrictions and Easements, such as drainage easements, sight triangle easements and utility easements.</li> <li>4. Section 525 Storm Water Management Control.</li> <li>5. Section 526 Stream Setback, No activity shall be permitted within 100 feet of the top of the bank of a stream or other body of water. No building shall be constructed within the 100 year flood plain.</li> </ol>
<p>Highlands, Borough</p>	<p>Near the waterfront: Single family residential units are being renovated, older single and multi family housing units are being demolished and replaced with single and multi family housing units. Some pre-existing high density areas have been rezoned into "MXD" areas and are currently awaiting redevelopment. Pre-existing open areas are being developed and are becoming, single and multi-family housing units. Much of the waterfront business area zones has already been developed with restaurants or marinas. Older restaurants are being renovated and re-opened as restaurants as business thru-out the town continues to increase.</p> <p>The analysis concluded that the 2003 population of the Township was approximately 17,487 and that with current zoning the population at total build-out would be about 19,608. Most of the undeveloped properties are in residential zones with the largest properties zoned for single-family homes in clustered developments with a maximum density of 0.2 units per acre. Some of the undeveloped properties have received development approvals from the Planning Board. Given the state of the real estate market the actual development of these properties is at present proceeding very slowly. There are two clusters of undeveloped properties along Route 35. Each of these has about 25 acres and they are currently zoned for commercial/retail use. There are no currently known development plans for either of these properties.</p>	<p>The borough has developed, adopted and enforces: Flood plain ordinances, Steep slope ordinances, storm water management plans. Additionally the borough follows the FEMA NFIP program and has adopted the current edition of the International Code Council (ICC) construction codes and the current edition of the New Jersey Residential Construction Code.</p>
<p>Holmdel, Township of</p>	<p>(continued on the following page...)</p>	<p>Holmdel Township includes in its Development Regulations Section 30-116, Resource Management Regulations. These regulations limit development within stream corridors including floodplains, on steep slopes, and around water bodies and limit tree and woodland removal on properties proposed for development. The regulations require that buffers be placed in conservation easements.</p>



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Land Uses and Development Trends Update

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Name: Michael Simpson

Title: Emergency Management Coordinator

Representing: Holmdel Twp.

Email and Phone: mikesimpson911@gmail.com 7326886745

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Community	1. Land Uses and Development Trends in Hazard Areas	2. Regulations/Codes/Ordinances To Protect New Development From Natural Hazards
<p>Hazlet, Township of</p>	<p>Many various projects approved or pending and under construction currently; Details provided by Sharon A. Keegan, Zoning Official.</p>	<p>The Township utilizes a Development Review Ordinance that regulates all property within its boundaries. The intent of the ordinances is to guide the appropriate use of development of all lands in a manner that promotes the public health, safety, morals and general welfare. To secure safety from fire, panic and other natural or manmade disasters. The following ordinances are some of the ways the township regulates new development from the effects of a natural hazard.</p> <ol style="list-style-type: none"> <li>1. Section 412 - Flood Hazard Regulations-designed to regulate development of lands within the defined flood hazard areas.</li> <li>2. Section 500 - Performance \$ Design Standards - designed to promote the creation of functional and attractive development that shall promote to the health, safety, general welfare, morals, efficiency, economy, maintenance of property values and the character of the Township. To minimize adverse impacts of flooding, drainage, erosion vehicular traffic, pedestrian movement, parking, vibration, lighting and glare, noise, odor, solid waste disposal and litter.</li> <li>3. Section 508 Land Use Restrictions and Easements, such as drainage easements, sight triangle easements and utility easements.</li> <li>4. Section 525 Storm Water Management Control.</li> <li>5. Section 526 Stream Setback, No activity shall be permitted within 100 feet of the top of the bank of a stream or other body of water. No building shall be constructed within the 100-year flood plain.</li> </ol>
<p>Highlands, Borough</p>	<p>Near the waterfront: Single family residential units are being renovated, older single and multi family housing units are being demolished and replaced with single and multi family housing units. Some pre-existing high density areas have been rezoned into "MXD" areas and are currently awaiting redevelopment. Pre-existing open areas are being developed and are becoming, single and multi-family housing units. Much of the waterfront business area zones has already been developed with restaurants or marinas. Older restaurants are being renovated and re-opened as restaurants as business thru-out the town continues to increase.</p> <p>The analysis concluded that the 2003 population of the Township was approximately 17,487 and that with current zoning the population at total build-out would be about 19,608. Most of the undeveloped properties are in residential zones with the largest properties zoned for single-family homes in clustered developments with a maximum density of 0.2 units per acre. Some of the undeveloped properties have received development approvals from the Planning Board. Given the state of the real estate market the actual development of these properties is at present proceeding very slowly. There are two clusters of undeveloped properties along Route 35. Each of these has about 25 acres and they are currently zoned for commercial/retail use. There are no currently known development plans for either of these properties.</p> <p><i>(continued on the following page...)</i></p>	<p>The borough has developed, adopted and enforces: Flood plain ordinances, Steep slope ordinances, storm water management plans. Additionally the borough follows the FEMA NFIP program and has adopted the current edition of the International Code Council (ICC) construction codes and the current edition of the New Jersey Residential Construction Code.</p>
<p>Holmdel, Township of</p>	<p>The analysis concluded that the 2003 population of the Township was approximately 17,487 and that with current zoning the population at total build-out would be about 19,608. Most of the undeveloped properties are in residential zones with the largest properties zoned for single-family homes in clustered developments with a maximum density of 0.2 units per acre. Some of the undeveloped properties have received development approvals from the Planning Board. Given the state of the real estate market the actual development of these properties is at present proceeding very slowly. There are two clusters of undeveloped properties along Route 35. Each of these has about 25 acres and they are currently zoned for commercial/retail use. There are no currently known development plans for either of these properties.</p> <p><i>(continued on the following page...)</i></p>	<p>Holmdel Township includes in its Development Regulations Section 30-116, Resource Management Regulations. These regulations limit development within stream corridors including floodplains, on steep slopes, and around water bodies and limit tree and woodland removal on properties proposed for development. The regulations require that buffers be placed in conservation easements.</p>

**Table 3d.6**  
**Summary of Responses**  
**Land Uses and Development Trends Questionnaire**  
*(Source: Core Planning Group Members)*

Community	1. Land Uses and Development Trends in Hazard Areas	2. Regulations/Codes/Ordinances To Protect New Development From Natural Hazards
Howell, Township of	<p><i>(Holmdel, continued...)</i></p> <p>The largest development uncertainty in the Township is the potential redevelopment of the 472-acre property owned by Alcatel-Lucent that formerly housed research and development facilities of Bell Laboratories. On this property is an approximately 2,000,000 sq. ft building that was designed by Aero Saarinen for Bell Laboratories and is now vacant. Six to eight years ago there were 6-7,000 employees working in the building. A redevelopment company has a contract to purchase the property. However, the sale has not closed. Some of the possibilities for the redevelopment include the partial or complete demolition of the existing building, the re-use of a portion of the building, the construction of new buildings for professional and office use, the construction of a 350,000 sq. ft. data center, the construction of age-restricted residences, some municipal facilities, and some combination of all of these and other possibilities. The Township Committee has appointed an Advisory Committee to advise it on the options. Because of the poor state of the commercial real estate market in Monmouth County and New Jersey, the lack of population and employment growth in New Jersey, and the lack of identified or contracted tenants, the ultimate plan for the development of this property is unknown at this time. <u>In May, 2012, Holmdel Township approved the Alcatel-Lucent Redevelopment Plan. In March, 2013, Somerset Development won initial approval to proceed with their plans but although under contract to purchase the site have not yet closed on the purchase.</u></p> <p>Large McMansion development exists within areas of previously farmed land. A large area of the Township maintains a rural character. Most of the Township's development is scattered throughout rural locations and located at previously farmed areas and wetland areas.</p> <p>Agricultural Rural Estate zone districts are present within the Township and prevent the impacts of development in areas located outside of centers that are identified in the Township's Master Plan. Agricultural uses and low density development are encouraged within the ARE zone districts. High density residential development within the Township are located within the residential zone districts and located in the vicinity of well traveled roadways. Commercial development within the Township can be found along the Rt. 9 and Rt. 35 corridors.</p>	<p>Yes, the Township has a 300 foot Riparian Buffer Ordinance (188-34). A 300 foot buffer is required adjacent to all streams, lakes, ponds within the Township. The buffer is measured as a line extending perpendicularly from the 100-year flood plan delineation. If there is no 100 year flood line delineated, the distance shall be measured outward from the top of the bank. This ordinance protects communities from potential flood hazard occurrences.</p>
Interlaken, Borough of	<p>The Borough of Interlaken is unique in that the municipality is completely single-family residential. The only non-residential land use is borough-owned property such as Borough Hall, a park and an arboretum. The Borough's goal is to retain the current character of the community and this is reinforced in its Master Plan and Zoning Ordinance. The Borough is concerned about preserving its Deal Lake frontage as well as environmental stabilization of the Deal Lake itself.</p>	<p>The Borough of Interlaken does enforce a Flood Hazard Prevention Ordinance and a full circuit of Storm water management ordinances. The Borough of Interlaken also has an arboretum along Deal Lake and has steep slope easement and conservation easement in place to preserve stream corridors.</p>
Keansburg, Borough of	<p>Town House/ Condo Development and retail development near our waterfront areas; feasibility study being conducted for a marina.</p>	<p>Floodplain management ordinances for new construction in floodplain zones.</p>
Keyport, Borough of	<p>Residential development 50 yards from waterfront; 10 new homes within last 5 years; Future Project: Multi Condo project along a creek bed.</p>	<p>The jurisdiction enforces or regulates development for floodplain along Raritan Bay and along our two creeks. Also for added / new or development along the</p>



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

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Performing an assessment of Land Uses and Development Trends is one step of a FEMA-approved hazard mitigation plan update. This look into the future is important because development in hazard areas could put more assets at risk and, in turn, could work to increase potential disaster-related damages at a time when the mitigation plan's purpose is to reduce the potential for damages emanating from natural disasters. Land uses and development trends are based on the construction of new buildings, demolition of old buildings, or the planning, zoning or subdivision of new areas for development. A stagnant or decreasing population alone is not reason for stating that no development has occurred unless backed up by a lack of development.

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**Name:** Helene Schlegel

**Title:** \_\_\_ OEM Coordinator

**Representing:** \_\_\_ Howell Township

**Email and Phone:** \_\_\_ [hschlegel@twp.howell.nj.us](mailto:hschlegel@twp.howell.nj.us), 732-938-4500x2102 \_\_\_



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

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**Name:** Earl Alexander

**Title:** Captain / Deputy OEM Coordinator

**Representing:** Borough of Interlaken

**Email and Phone:** Ealexander@dealpolice.org 732-531-1113



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update  
Land Uses and Development Trends Update**

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Name: Ginger Rogan

Title: Deputy OEM

Representing: Borough of Keansburg

Email and Phone: dispgin1@aol.com (732)787-0215 x203



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

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**Name:** LORANE K Wright

**Title:** Business Administrator

**Representing:** Keyport Borough

**Email and Phone:** LWRight@Keyportonline.Com

**Table 3d.6**  
**Summary of Responses**  
**Land Uses and Development Trends Questionnaire**  
*(Source: Core Planning Group Members)*

Community	1. Land Uses and Development Trends in Hazard Areas <i>(Holmdel, continued...)</i>	2. Regulations/Codes/Ordinances To Protect New Development From Natural Hazards
Howell, Township of	<p>The largest development uncertainty in the Township is the potential redevelopment of the 472-acre property owned by Alcatel-Lucent that formerly housed research and development facilities of Bell Laboratories. On this property is an approximately 2,000,000 sq. ft. building that was designed by Aero Saarinen for Bell Laboratories and is now vacant. Six to eight years ago there were 6-7,000 employees working in the building. A redevelopment company has a contract to purchase the property. However, the sale has not closed. Some of the possibilities for the redevelopment include the partial or complete demolition of the existing building, the re-use of a portion of the building, the construction of new buildings for professional and office use, the construction of a 350,000 sq. ft. data center, the construction of age-restricted residences, some municipal facilities, and some combination of all of these and other possibilities. The Township Committee has appointed an Advisory Committee to advise it on the options. Because of the poor state of the commercial real estate market in Monmouth County and New Jersey, the lack of population and employment growth in New Jersey, and the lack of identified or contracted tenants, the ultimate plan for the development of this property is unknown at this time.</p> <p>Large McMansion development exists within areas of previously farmed land. A large area of the Township maintains a rural character. Most of the Township's development is scattered throughout rural locations and located at previously farmed areas and wetland areas.</p> <p>Agricultural Rural Estate zone districts are present within the Township and prevent the impacts of development in areas located outside of centers that are identified in the Township's Master Plan. Agricultural uses and low density development are encouraged within the ARE zone districts. High density residential development within the Township are located within the residential zone districts and located in the vicinity of well traveled roadways. Commercial development within the Township can be found along the Rt. 9 and Rt. 35 corridors.</p>	<p>Yes, the Township has a 300 foot Riparian Buffer Ordinance (1885-34). A 300 foot buffer is required adjacent to all streams, lakes, ponds within the Township. The buffer is measured as a line extending perpendicularly from the 100-year flood plan delineation. If there is no 100 year flood line delineated, the distance shall be measured outward from the top of the bank. This ordinance protects communities from potential flood hazard occurrences.</p>
Interlaken, Borough of	<p>The Borough of Interlaken is unique in that the municipality is completely single-family residential. The only non-residential land use is borough-owned property such as Borough Hall, a park and an arboretum. The Borough's goal is to retain the current character of the community and this is reinforced in its Master Plan and Zoning Ordinance. The Borough is concerned about preserving its Deal Lake frontage as well as environmental stabilization of the Deal Lake itself.</p>	<p>The Borough of Interlaken does enforce a Flood Hazard Prevention Ordinance and a full circuit of Storm water management ordinances. The Borough of Interlaken also has an arboretum along Deal Lake and has steep slope easement and conservation easement in place to preserve stream corridors.</p>
Keansburg, Borough of	<p>Town House/ Condo Development and retail development near our waterfront areas; feasibility study being conducted for a marina.</p>	<p>Floodplain management ordinances for new construction in floodplain zones.</p>
Keyport, Borough of	<p>Residential development 50 yards from waterfront; 10 new homes within last 5 years; Future Project: Multi Condo project along a creek bed. Recent additional approvals include 20 condo units along creek bed. Inquiry by developers continue, requesting approvals for waterfront multi-family units.</p>	<p>The jurisdiction enforces or regulates development by enforcement of CAFRA Regulations and Floodplain Management Best Practices along Karitan Bay and along our two creeks. ¶                  ¶ added / new or development along the Bay has high wind Criteria.</p>

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**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

Performing an assessment of Land Uses and Development Trends is one step of a FEMA-approved hazard mitigation plan update. This look into the future is important because development in hazard areas could put more assets at risk and, in turn, could work to increase potential disaster-related damages at a time when the mitigation plan's purpose is to reduce the potential for damages emanating from natural disasters. Land uses and development trends are based on the construction of new buildings, demolition of old buildings, or the planning, zoning or subdivision of new areas for development. A stagnant or decreasing population alone is not reason for stating that no development has occurred unless backed up by a lack of development.

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**Name:** Louise A. Mekosh

**Title:** Borough Clerk/Administrator

**Representing:** Borough of Lake Como

**Email and Phone:** lmekosh@boro.lake-como.nj.us 732-681-3232, ext. 202

Table 3d.6

Land Uses and Development Trends Questionnaire

Community Lake Como	<p><b>1. Land Uses and Development Trends in Hazard Area</b>                  Due to the recent superstorm, we have focused more on the new ABFE maps and the Planning and Construction offices have been working with the homeowners to ensure compliance with the new guidelines for floodplain elevation in the A zone.</p>	<p><b>2. Regulations/Codes/Ordinances to protect New Development</b>                  Keep same response from the 2009 sheets. (No change)</p>
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**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

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Item No. 2 Regulations: The Borough in 2013 has adopted the Revised  
 \_\_\_\_\_  
 State Model Flood Damage Prevention Ordinance adopting the Advisory  
 \_\_\_\_\_  
 Base Flood Elevation with the recommended 3 feet of freeboard for all  
 \_\_\_\_\_  
 new construction.

**Name:** Frank Salerno

**Title:** OEM Coordinator

**Representing:** Borough of Little Silver

**Email and Phone:** 732-747-5900

Table 3d.6

Summary of Responses  
Land Uses and Development Trends Questionnaire  
(Source: Core Planning Group Members)

Community	1. Land Uses and Development Trends in Hazard Areas	2. Regulations/Codes/Ordinances To Protect New Development From Natural Hazards
Lake Como, Borough of	<p>There is a number of recently approved and soon-to-be proposed "high-density residential over commercial" projects on Main Street. The projects range from 4 to 25 residential units each and there is a maximum potential for about 8 to 10 such projects to ultimately be built pending on further economic growth. The remainder of the town is completely developed with most work being confined to additions and alterations and or replacement of existing single-family residences (usually small bungalows being replaced with new larger homes).</p> <p>Little Silver is largely residential, developing slowly in accordance with its current zoning. Development is mostly renovation of existing homes except for one age restricting housing development recently approved by the Planning Board.</p>	<p>Yes, State and Federal flood plan, wind design and general building code requirements are enforced.</p>
Little Silver, Borough of	<p>Little Silver is largely residential, developing slowly in accordance with its current zoning. Development is mostly renovation of existing homes except for one age restricting housing development recently approved by the Planning Board.</p>	<p>Yes, the Borough has an Ordinance restricting all development below the six foot contour (along stream corridors) and has recently adopted ordinances prohibiting the use of steep slopes and environmentally sensitive areas for lit area calculations.</p>
Loch Arbour, Village of	<p>Village of Loch Arbour is fully developed, primarily single family residential development is usually in the form of knock-downs and rebuilds.</p>	<p>Yes, floodplain management, high wind design criteria apply in the Village. No other criteria are necessary.</p>
Long Branch, City of	<p>Over the last ten years the City of Long Branch has been developing and implementing an extremely progressive redevelopment program. The Oceanfront development has already begun with Beachfront North – a high-density residential development and Pier Village – a high-density residential/commercial mix. In the near future the city will begin the next four phases of their development plan, which includes Broadway Corridor, Broadway Gateway, Hotel Campus and Beachfront South. Broadway Corridor is a high-density residential/retail mix with an emphasis on the arts. Broadway Gateway is a mix of commercial and big box retail. Hotel Campus is another beachfront project, which includes a large expansion of an existing hotel and added high-density residential/dormitories. The final project is Beachfront South, which is expected to also include high density residential with improvements to the public boardwalk.</p>	<p>The City of Long Branch follows FEMA's National Flood Insurance Program, the State of New Jersey Uniform Construction Code, the State of New Jersey Municipal Land Use Laws and Monmouth County Freehold Soil Conservation.</p> <p>The City has also adopted several ordinances on a local level to help protect new development and give local officials guidance. These ordinances include Land Use Procedures, Environmental Commission, Urban Enterprise Zone, Property Maintenance, Flood Damage Prevention, Public Property, Redevelopment, Soil Removal and Zoning.</p> <p>Although each of the above listed ordinances may not individually affect each project the combination of several will benefit a large majority of our development.</p>
Manalapan, Township of	<p>The township continues to grow and develop both residential and non-residential uses. The Town completed a Vacant Land Analysis and Employment and Population Projections report as part of the Master Plan Housing Element, which was adopted in 2005. The Town projects that its population will grow from 33,423 in 2000 to 40,923 in 2025. At that point, the Town expects that it will be at its residential buildout based on the current zone plan. Future residential development that has been approved for construction includes single family detached housing, attached housing, affordable housing, and age-restricted housing. Nonresidential growth and development would increase employment within the Town from 8,145 in 2000 to 13,430 in 2025.</p> <p>Development pressures within the Township have generally corresponded to economic cycles. Over the last decade, the Township has experienced a strong demand for residential development and increasing land values. The Township has also experienced a demand for non-residential development for retail office, and office-warehouse uses.</p>	<p>All development and building within the Township is regulated pursuant to the development regulations of the Township of Manalapan, the State Residential Site Improvement Standards, the State Uniform Construction Code, and any other applicable State or County regulations. Township development regulations are enforced through the Township development review and approval process and by the Township agencies and officials responsible for the administration of the regulations and the issuance of development permits</p> <p>Township development regulations include a Flood Hazard Area Overlay zone which prohibits most types of development in the 100-year floodplain, irrespective of the underlying zone district. The objective is to conserve the natural floodplain. The regulations also include building setback requirements from the floodplain. Any permitted development in the floodplain must comply with the Flood Damage Prevention Regulations of the Township Code which incorporates FEMA standards.</p> <p>(continued on next page...)</p>



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

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**Table 3d.6 Part 2 - Village has adopted a Flood Damage Prevention Ordinance addressing residential and non-residential construction in accordance with the State model ordinance.**

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**Name:** Peter R. Avakian P.E.

**Title:** Floodplain Administrator

**Representing:** Village of Loch Arbour

**Email and Phone:** Ph: 732-922-9229 Isavakian@aol.com

**Table 3d.6**  
**Summary of Responses**  
**Land Uses and Development Trends Questionnaire**  
*(Source: Core Planning Group Members)*

Community	1. Land Uses and Development Trends in Hazard Areas	2. Regulations/Codes/Ordinances To Protect New Development From Natural Hazards
Lake Como, Borough of	<p>There is a number of recently approved and soon-to-be proposed "high-density residential over commercial" projects on Main Street. The projects range from 4 to 25 residential units each and there is a maximum potential for about 8 to 10 such projects to ultimately be built pending on further economic growth. The remainder of the town is completely developed with most work being confined to additions and alterations and or replacement of existing single-family residences (usually small bungalows being replaced with new larger homes).</p> <p>Little Silver is largely residential, developing slowly in accordance with its current zoning. Development is mostly renovation of existing homes except for one age restricting housing development recently approved by the Planning Board.</p>	<p>Yes, State and Federal flood plan, wind design and general building code requirements are enforced.</p> <p>Yes, the Borough has an Ordinance restricting all development below the six foot contour (along stream corridors) and has recently adopted ordinances prohibiting the use of steep slopes and environmentally sensitive areas for lit area calculations.</p> <p>Yes, floodplain management, high wind design criteria apply in the Village. No other criteria are necessary.</p>
Little Silver, Borough of	<p>Village of Loch Arbour is fully developed, primarily single family residential development is usually in the form of knock-downs and rebuilds.</p> <p>Over the last ten years the City of Long Branch has been developing and implementing an extremely progressive redevelopment program. The Oceanfront development has already begun with Beachfront North – a high-density residential development and Pier Village – a high-density residential/commercial mix. In the near future the city will begin the next four phases of their development plan, which includes Broadway Corridor, Broadway Gateway, Hotel Campus and Beachfront South. Broadway Corridor is a high-density residential/retail mix with an emphasis on the arts. Broadway Gateway is a mix of commercial and big box retail. Hotel Campus is another beachfront project, which includes a large expansion of an existing hotel and added high-density residential/dormitories. The final project is Beachfront South, which is expected to also include high density residential with improvements to the public boardwalk.</p>	<p>The City of Long Branch follows FEMA's National Flood Insurance Program, the State of New Jersey Uniform Construction Code, the State of New Jersey Municipal Land Use Laws and Monmouth County Freehold Soil Conservation.</p> <p>The City has also adopted several ordinances on a local level to help protect new development and give local officials guidance. These ordinances include Land Use Procedures, Environmental Commission, Urban Enterprise Zone, Property Maintenance, Flood Damage Prevention, Public Property, Redevelopment, Soil Removal and Zoning.</p> <p>Although each of the above listed ordinances may not individually affect each project the combination of several will benefit a large majority of our development.</p>
Manalapan, Township of	<p>The township continues to grow and develop both residential and non-residential uses. The Town completed a Vacant Land Analysis and Employment and Population Projections report as part of the Master Plan Housing Element, which was adopted in 2005. The Town projects that its population will grow from 33,423 in 2000 to 40,923 in 2025. At that point, the Town expects that it will be at its residential buildout based on the current zone plan. Future residential development that has been approved for construction includes single family detached housing, attached housing, affordable housing, and age-restricted housing. Nonresidential growth and development would increase employment within the Town from 8,145 in 2000 to 13,430 in 2025.</p> <p>Development pressures within the Township have generally corresponded to economic cycles. Over the last decade, the Township has experienced a strong demand for residential development and increasing land values. The Township has also experienced a demand for non-residential development for retail office, and office-warehouse uses.</p>	<p>All development and building within the Township is regulated pursuant to the development regulations of the Township of Manalapan, the State Residential Site Improvement Standards, the State Uniform Construction Code, and any other applicable State or County regulations. Township development regulations are enforced through the Township development review and approval process and by the Township agencies and officials responsible for the administration of the regulations and the issuance of development permits</p> <p>Township development regulations include a Flood Hazard Area Overlay zone which prohibits most types of development in the 100-year floodplain, irrespective of the underlying zone district. The objective is to conserve the natural floodplain. The regulations also include building setback requirements from the floodplain. Any permitted development in the floodplain must comply with the Flood Damage Prevention Regulations of the Township Code which incorporates FEMA standards.</p> <p><i>(continued on next page...)</i></p>



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Land Uses and Development Trends Update

Performing an assessment of Land Uses and Development Trends is one step of a FEMA-approved hazard mitigation plan update. This look into the future is important because development in hazard areas could put more assets at risk and, in turn, could work to increase potential disaster-related damages at a time when the mitigation plan's purpose is to reduce the potential for damages emanating from natural disasters. Land uses and development trends are based on the construction of new buildings, demolition of old buildings, or the planning, zoning or subdivision of new areas for development. A stagnant or decreasing population alone is not reason for stating that no development has occurred unless backed up by a lack of development.

An evaluation of land uses and development trends was undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Land Uses and Development Trends section are included in the pages to follow, documenting your community's prior feedback. Please review your community's feedback shown in the table on the pages to follow, and identify any changes that have occurred since that time. Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Please check box A or B below.**

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**Name:** Charles F. Shirley Jr.

**Title:** Deputy Coordinator

**Representing:** City of Long Branch

**Email and Phone:** cshirley@longbranch.org - 732-222-7000



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

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**Name:** James Winckowski/CME Associates

**Title:** Township Engineer's Office

**Representing:** Manalapan Township

**Email and Phone:** jwinckowski@cmeusa1.com 732-462-7400

Table 3d.6

Summary of Responses  
Land Uses and Development Trends Questionnaire  
(Source: Core Planning Group Members)

Community	1. Land Uses and Development Trends in Hazard Areas	2. Regulations/Codes/Ordinances To Protect New Development From Natural Hazards
Lake Como, Borough of	There is a number of recently approved and soon-to-be proposed "high-density residential over commercial" projects on Main Street. The projects range from 4 to 25 residential units each and there is a maximum potential for about 8 to 10 such projects to ultimately be built pending on further economic growth. The remainder of the town is completely developed with most work being confined to additions and alterations and or replacement of existing single-family residences (usually small bungalows being replaced with new larger homes).	Yes, State and Federal flood plan, wind design and general building code requirements are enforced.
Little Silver, Borough of	Little Silver is largely residential, developing slowly in accordance with its current zoning. Development is mostly renovation of existing homes except for one age restricting housing development recently approved by the Planning Board.	Yes, the Borough has an Ordinance restricting all development below the six foot contour (along stream corridors) and has recently adopted ordinances prohibiting the use of steep slopes and environmentally sensitive areas for lit area calculations.
Loch Arbour, Village of	Village of Loch Arbour is fully developed, primarily single family residential development is usually in the form of knock-downs and rebuilds.	Yes, floodplain management, high wind design criteria apply in the Village. No other criteria are necessary.
Long Branch, City of	Over the last ten years the City of Long Branch has been developing and implementing an extremely progressive redevelopment program. The Oceanfront development has already begun with Beachfront North – a high-density residential development and Pier Village – a high-density residential/commercial mix. In the near future the city will begin the next four phases of their development plan, which includes Broadway Corridor, Broadway Gateway, Hotel Campus and Beachfront South. Broadway Corridor is a high-density residential/retail mix with an emphasis on the arts. Broadway Gateway is a mix of commercial and big box retail. Hotel Campus is another beachfront project, which includes a large expansion of an existing hotel and added high-density residential/dormitories. The final project is Beachfront South, which is expected to also include high density residential with improvements to the public boardwalk.	The City of Long Branch follows FEMA's National Flood Insurance Program, the State of New Jersey Uniform Construction Code, the State of New Jersey Municipal Land Use Laws and Monmouth County Freehold Soil Conservation.  The City has also adopted several ordinances on a local level to help protect new development and give local officials guidance. These ordinances include Land Use Procedures, Environmental Commission, Urban Enterprise Zone, Property Maintenance, Flood Damage Prevention, Public Property, Redevelopment, Soil Removal and Zoning.  Although each of the above listed ordinances may not individually affect each project the combination of several will benefit a large majority of our development.
Manalapan, Township of	The township continues to grow and develop both residential and non-residential uses. <del>The Town completed a Vacant Land Analysis and Employment and Population Projections report as part of the Master Plan Housing Element/Master Plan Rezoning, which was adopted in 2005. The Town projects that its population will grow from 33,423 in 2000 to 40,923 in 2025. At that point, the Town expects that it will be at its residential buildout based on the current zone plan. Future residential development that has been approved for construction includes single family detached housing, attached housing, affordable housing, and age restricted housing. Nonresidential growth and development would increase employment within the Town from 8,145 in 2000 to 13,430 in 2025.</del>  Development pressures within the Township have generally corresponded to economic cycles. Over the last decade, the Township has experienced a strong demand for residential development and increasing land values. The Township has also experienced a demand for non-residential development for retail office, and office-warehouse uses. <del>Since the recession of 2008, development has slowed significantly and land values stabilized but a substantial amount of developable lands still exist in the Township.</del>	All development and building within the Township is regulated pursuant to the development regulations of the Township of Manalapan, the State Residential Site Improvement Standards, the State Uniform Construction Code, and any other applicable State or County regulations. Township development regulations are enforced through the Township development review and approval process and by the Township agencies, including the <u>Planning Board and Board of Adjustment</u> , and officials responsible for the administration of the regulations and the issuance of development permits  Township development regulations include a Flood Hazard Area Overlay zone which prohibits most types of development in the 100-year floodplain, <del>irrespective</del> of the underlying zone district. The objective is to conserve the natural floodplain. The regulations also include building setback requirements from the floodplain. Any permitted development in the floodplain must comply with the Flood Damage Prevention Regulations of the Township Code which incorporates FEMA standards.  <i>(continued on next page...)</i>

Table 3d.6

Summary of Responses

Land Uses and Development Trends Questionnaire  
(Source: Core Planning Group Members)

Community	1. Land Uses and Development Trends in Hazard Areas	2. Regulations/Codes/Ordinances To Protect New Development From Natural Hazards
	<p>The development trends in Manalapan typical include the construction of large lot (4 acre) residential subdivisions. These typically occur in the southern half of Manalapan, where historically farmed lands are being developed. The northern half of Manalapan is generally built out. Commercial development typically consists of new retail or office/warehouse construction along the Route 33 corridor. Route 9 is another commercial corridor within the Township, however, same is mostly built out.</p>	<p>(Manalapan, continued ...)</p> <p>Township development regulations include provisions to regulate development activities along streams and within stream corridors. The regulation is also applicable to any pond, lake, or perennial or intermittent waterway as shown by USGS maps, the Monmouth County Soils Survey, or the Natural Resource Inventory for Manalapan Township.</p> <p>Township development regulations include standards for the development on steep slopes. The standards restrict development on slopes of 10% or greater. Disturbance of slopes 20% or greater is only permitted if the disturbance is essential to the reasonable use of the property.</p> <p>The Township has an active open space and farmland preservation program to retain significant areas of the Township in farm and open space use.</p>
Manasquan, Borough of	<p>Manasquan is a built-out year-round shore community consisting of approximately 6,400 residents. Most development consists of razing older, smaller homes and replacement with larger, 2 to 3 story homes, especially along the oceanfront.</p>	<p>The Borough of Manasquan enforced the following: Wind Design Criteria: Uniform Construction Code (UCC); Flood Plain Ordinance NJSA 58:16A.57 (required by the State); Borough Ordinance Chapter # 29 (Flood Prevention &amp; Construction Design)</p>
Marlboro, Township of	<p>The Township is seeing a combination of high-density high-occupancy residential, commercial and low-density residential on lots of 1 acre or larger. Ten commercial properties include a big-box retail store, 2 banks, 2 office buildings, 2 combination office buildings/warehouses, one house of worship, a drive-thru pharmacy and an indoor tennis &amp; training facility. Six pending residential developments include one with a combination of single family homes and 2 Multi-family dwellings, one multi-unit single family attached dwelling, and 4 single family dwelling Developments with lot sizes ranging from ¼ acre to 2+ acres.</p>	<p>The Zoning and/or Engineering Departments enforce the following sections of the Township Code:</p> <ol style="list-style-type: none"> <li>1. General Provisions 84-30D(1)(a); "No structure shall be built within 100' of top-of-bank of a Stream or other body of water or within any drainage or conservation easement...No building shall be constructed within the 100 year flood plain of any stream or watercourse..."</li> <li>2. Flood Damage Prevention 84-37 and NJSA 40:48-1 et seq.</li> <li>3. Storm Water Management 84-104</li> <li>4. Floodplain Regulations 84-1095. SoilRemoval84-1346. Grading &amp; Clearing 84-30 D (24), 84-83 F</li> </ol>
Matawan, Borough of	<p>The Borough of Matawan is a 2.26 square mile community which has mostly been developed to capacity. Currently, there is one residential development in the initial stages of construction. The development (The Preserve at Matawan) encompasses an approximate sixteen acre tract of land formally used as both a residence and retail business. This tract of land included a warehouse type building and a residential home with the undeveloped acres remaining wooded and wetland areas. This development is located between State Highway #79 and Mill Rd. and borders Matawan's Gravelly Brook and Gravelly Brook Park. The Preserve at Matawan will encompass one hundred twenty-six luxury condominiums. The condominiums will be offered in one, two or three bedroom models. The development will be restricted to active adults 55 years old and older and reportedly will include a low-income component. A portion of the site will remain un-developed due to wetland restrictions.</p>	<p>With the exception of prohibitions for developing on or near preserved wetland areas, I am not aware of any such regulations/ordinances or codes currently in place to protect new development from the effects of natural hazards.</p>



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

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**Name:** \_\_\_\_\_ David W. Kircher \_\_\_\_\_

**Title:** \_\_\_\_\_ OEM Coordinator \_\_\_\_\_

**Representing:** \_\_\_\_\_ Manasquan Borough \_\_\_\_\_

**Email and Phone:** \_\_\_\_\_ oem@manasquan-nj.com \_\_\_\_\_



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Land Uses and Development Trends Update

Performing an assessment of Land Uses and Development Trends is one step of a FEMA-approved hazard mitigation plan update. This look into the future is important because development in hazard areas could put more assets at risk and, in turn, could work to increase potential disaster-related damages at a time when the mitigation plan's purpose is to reduce the potential for damages emanating from natural disasters. Land uses and development trends are based on the construction of new buildings, demolition of old buildings, or the planning, zoning or subdivision of new areas for development. A stagnant or decreasing population alone is not reason for stating that no development has occurred unless backed up by a lack of development.

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     Updates were completed by Laura Neumann, Township Engineer.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Name: Robert Miller

Title: Deputy Coordinator

Representing: Marlboro Township

Email and Phone: bmiller@marlboro-nj.gov; 732-513-7897

**Table 3d.6**  
**Summary of Responses**  
**Land Uses and Development Trends Questionnaire**  
*(Source: Core Planning Group Members)*

Community	1. Land Uses and Development Trends in Hazard Areas	2. Regulations/Codes/Ordinances To Protect New Development From Natural Hazards
Manasquan, Borough of	<p>Manasquan is a built-out year-round shore community consisting of approximately 6,400 residents. Most development consists of razing older, smaller homes and replacement with larger, 2 to 3 story homes, especially along the oceanfront.</p>	<p><i>(Manalapan, continued...)</i></p> <p>Township development regulations include provisions to regulate development activities along streams and within stream corridors. The regulation is also applicable to any pond, lake, or perennial or intermittent waterway as shown by USGS maps, the Monmouth County Soils Survey, or the Natural Resource Inventory for Manalapan Township.</p> <p>Township development regulations include standards for the development on steep slopes. The standards restrict development on slopes of 10% or greater. Disturbance of slopes 20% or greater is only permitted if the disturbance is essential to the reasonable use of the property.</p> <p>The Township has an active open space and farmland preservation program to retain significant areas of the Township in farm and open space use.</p> <p>The Borough of Manasquan enforced the following: Wind Design Criteria: Uniform Construction Code (UCC); Flood Plain Ordinance NJS 58:16A.57 (required by the State); Borough Ordinance Chapter # 29 (Flood Prevention &amp; Construction Design)</p>
Marlboro, Township of	<p>The Township is seeing a combination of high-density high-occupancy residential, commercial and low-density residential on lots of 1 acre or larger. Ten commercial properties include a big-box retail store, 2 banks, 2 office buildings, 2 combination office buildings/warehouses, one house of worship, a drive-thru pharmacy and an indoor tennis &amp; training facility. Six pending residential developments include one with a combination of single family homes and 2 Multi-family dwellings, one multi-unit single family attached dwelling, and 4 single family dwelling Developments with lot sizes ranging from ¼ acre to 2+ acres.</p>	<p>The Zoning and/or Engineering Departments enforce the following sections of the Township Code:</p> <ol style="list-style-type: none"> <li>1. General Provisions <del>84-30D220-46D(1)</del>[a]: "No structure shall be built within 100' of top-of-bank of a Stream or other body of water or within any drainage or conservation easement....No building shall be constructed within the 100 year flood plain of any stream or watercourse..."</li> <li>2. Flood Damage Prevention <del>84-37220-46</del> and NJS 40:48-1 et seq.</li> <li>3. Storm Water Management <del>84-104220-150</del></li> <li>4. Floodplain Regulations <del>84-1095220-161</del>. SoilRemoval<del>84-1346-220-23</del> Grading &amp; Clearing <del>84-30D(24)</del>, <del>84-83F220-23</del></li> </ol>
Matawan, Borough of	<p>The Borough of Matawan is a 2.26 square mile community which has mostly been developed to capacity. Currently, there is one residential development in the initial stages of construction. The development (The Preserve at Matawan) encompasses an approximate sixteen acre tract of land formally used as both a residence and retail business. This tract of land included a warehouse type building and a residential home with the undeveloped acres remaining wooded and wetland areas. This development is located between State Highway #79 and Mill Rd. and borders Matawan's Gravelly Brook and Gravelly Brook Park. The Preserve at Matawan will encompass one hundred twenty-six luxury condominiums. The condominiums will be offered in one, two or three bedroom models. The development will be restricted to active adults 55 years old and older and reportedly will include a low-income component. A portion of the site will remain un-developed due to wetland restrictions.</p> <p align="right"><i>(continued on the next page...)</i></p>	<p>With the exception of prohibitions for developing on or near preserved wetland areas, I am not aware of any such regulations/ordinances or codes currently in place to protect new development from the effects of natural hazards.</p>



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Land Uses and Development Trends Update*

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**The Preserve at Matawan is now completed. This development contains one-hundred twenty-six luxury condominiums which includes age restricted and low income (31 units) housing.**

**Name: Sergeant Thomas J. Falco**

**Title: Emergency Management Coordinator**

**Representing: Borough of Matawan**

**Email and Phone: [tfalco@matawanpolice.org](mailto:tfalco@matawanpolice.org) (732) 290-2024**

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*(Source: Core Planning Group Members)*

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Manasquan, Borough of	<p>Manasquan is a built-out year-round shore community consisting of approximately 6,400 residents. Most development consists of razing older, smaller homes and replacement with larger, 2 to 3 story homes, especially along the oceanfront.</p>	<p><i>(Manalapan, continued...)</i></p> <p>Township development regulations include provisions to regulate development activities along streams and within stream corridors. The regulation is also applicable to any pond, lake, or perennial or intermittent waterway as shown by USGS maps, the Monmouth County Soils Survey, or the Natural Resource Inventory for Manalapan Township.</p> <p>Township development regulations include standards for the development on steep slopes. The standards restrict development on slopes of 10% or greater. Disturbance of slopes 20% or greater is only permitted if the disturbance is essential to the reasonable use of the property.</p> <p>The Township has an active open space and farmland preservation program to retain significant areas of the Township in farm and open space use.</p> <p>The Borough of Manasquan enforced the following: Wind Design Criteria: Uniform Construction Code (UCC); Flood Plain Ordinance NJSA 58:16A.57 (required by the State); Borough Ordinance Chapter # 29 (Flood Prevention &amp; Construction Design)</p>
Marlboro, Township of	<p>The Township is seeing a combination of high-density high-occupancy residential, commercial and low-density residential on lots of 1 acre or larger. Ten commercial properties include a big-box retail store, 2 banks, 2 office buildings, 2 combination office buildings/warehouses, one house of worship, a drive-thru pharmacy and an indoor tennis &amp; training facility. Six pending residential developments include one with a combination of single family homes and 2 Multi-family dwellings, one multi-unit single family attached dwelling, and 4 single family dwelling Developments with lot sizes ranging from ¼ acre to 2+ acres.</p>	<p>The Zoning and/or Engineering Departments enforce the following sections of the Township Code:</p> <ol style="list-style-type: none"> <li>1. General Provisions 84-30D(1)(a): “No structure shall be built within 100’ of top-of-bank of a Stream or other body of water or within any drainage or conservation easement...No building shall be constructed within the 100 year flood plain of any stream or watercourse...”</li> <li>2. Flood Damage Prevention 84-37 and NJSA 40:48-1 et seq.</li> <li>3. Storm Water Management 84-104</li> <li>4. Floodplain Regulations 84-1095. SoilRemoval84-1346. Grading &amp; Clearing 84-30 D (24), 84-83 F.</li> </ol>
Matawan, Borough of	<p>The Borough of Matawan is a community of <b>2.403 square miles, of which, 2.261 square miles of it is land and 0.142 square miles of it is water.</b> As of 2013, the Borough is mostly been developed to capacity. <del>Currently, there is one residential development in the initial stages of construction.</del> The development (The Preserve at Matawan) encompasses an approximate sixteen acre tract of land formally used as both a residence and retail business. <del>This tract of land included a warehouse-type building and a residential home</del> with the undeveloped acres remaining wooded and wetland areas. This development is located between State Highway #79 and Mill Rd. and borders Matawan’s Gravelly Brook and Gravelly Brook Park. The Preserve at Matawan <del>will</del> encompasses one hundred twenty-six luxury condominiums. <del>The condominiums will be offered in one, two or three bedroom models. The development will be restricted contains an active adult component 55-years-old and older and reportedly will and includes a low-income component of 31 units</del> A portion of the site <del>will</del> remains un-developed due to wetland restrictions.</p>	<p><del>With the exception of prohibitions for developing on or near preserved wetland areas, I am not aware of any such regulations/ordinances or codes currently in place to protect new development from the effects of natural hazards.</del></p> <p><b>The Borough of Matawan regulates new developments in accordance with the Uniform Construction Code in addition to current Borough Ordinances governing floodplain and storm water management.</b></p>

**Table 3d.6**  
**Summary of Responses**  
**Land Uses and Development Trends Questionnaire**  
*(Source: Core Planning Group Members)*

Community	1. Land Uses and Development Trends in Hazard Areas	2. Regulations/Codes/Ordinances To Protect New Development From Natural Hazards
	<p><i>(Matawan, continued...)</i></p> <p><del>In addition to this development the</del> The Borough of Matawan is in the initial stages of a large scale re-development for the entire area of the Matawan-Aberdeen Train Station. The original plans called for a combination of retail, commercial and residential development in this area. The area has been approved as a Transit Village by New Jersey Transit. The entire re-development process was a joint venture with neighboring Aberdeen Twp--<del>but has</del> <b>was</b> stalled due to on-going litigation <b>but is once again, an active project. The Borough is currently in the process of developing a new plan and selecting a development partner.</b></p> <p><b>Broad Street Plaza, a proposed project to be built adjacent to the Matawan Municipal Community Center at the intersection of Broad Street and State Highway 34 has been presented to the Planning Board for review. The project proposes the construction of 130 apartments, 26,900 square foot of retail space and a 1,600 square foot fitness center.</b></p>	
Middleton, Township of	<p>Development trends in recent years have essentially been a continuation of the trends and patterns of the past. New development consists largely of single family homes and subdivisions. Typical subdivision applications currently range in size from 2-12 lots, whereas in years past they tended to be much larger, with 30 - 50 lot developments being common. [More multi-family developments, both rental and for sale, have been occurring in the past 10 years and will likely continue. This is primarily due to the Township's efforts in complying with State mandated affordable housing obligations. More than 1,100 new units have been approved and/or built in the past decade and another 200 - 300 hundred are likely in the next 10 years. Densities typically range from 3 - 10 units per acre, with project sizes ranging from 12 units to 150 units. Some multi-family developments has occurred near the waterfront. There is also an area of 10 -15 acres near the waterfront that is adjacent to the commercial fishing cooperative that is slated for redevelopment in the next few years. Other than that the Bayshore area is mostly built out, with some infill development possibilities. Newly enacted State regulations (11/5/07), applicable to floodplains, will have a significant impact on the magnitude of new development in those areas. Commercial development continues steadily, although the scale of commercial projects is somewhat smaller. Nearly all of our major shopping centers have been fully rehabilitated within the past 10-15 years. Scattered smaller commercial and retail developments (5,000 - 10,000 square feet) continue to take place. The only major land uses not occurring much are large office developments and industrial development.</p> <p>Millstone Township is considered a Low Density rural residential. Development is permitted along stream corridors and limited areas of commercial development.</p>	<p>The Township participates extensively in the FEMA National Flood Insurance Rate Map Program. Properties are regularly reviewed to determine if they are located in flood hazard areas. If they are, special design and development standards are imposed and a Floodplain Encroachment Permit process is implemented, via Township Ordinance. As indicated in #1 new State regulations applicable in flood hazard areas will severely limit new development and filling in Floodplains.</p> <p>Design and development standards relative to earthquakes and high winds are implemented via state regulated uniform construction standards. Landslide hazards and wildfire hazards are typically not applicable here. The Township does have steep slope conditions that limit and in some cases even prohibit developments that disturb sloped areas.</p>
Millstone, Township of	<p>Millstone Township strictly enforces various township ordinances that protect new development from various natural hazards. We have in place Steep slopes,</p>	



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Land Uses and Development Trends Update

Performing an assessment of Land Uses and Development Trends is one step of a FEMA-approved hazard mitigation plan update. This look into the future is important because development in hazard areas could put more assets at risk and, in turn, could work to increase potential disaster-related damages at a time when the mitigation plan's purpose is to reduce the potential for damages emanating from natural disasters. Land uses and development trends are based on the construction of new buildings, demolition of old buildings, or the planning, zoning or subdivision of new areas for development. A stagnant or decreasing population alone is not reason for stating that no development has occurred unless backed up by a lack of development.

An evaluation of land uses and development trends was undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Land Uses and Development Trends section are included in the pages to follow, documenting your community's prior feedback. Please review your community's feedback shown in the table on the pages to follow, and identify any changes that have occurred since that time. Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Please check box A or B below.**

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**Name: Charles W. Rogers**

**Title: OEM Coordinator**

**Representing: Middletown Township**

**Email and Phone 732-615-2129, [crogers@middletownnj.org](mailto:crogers@middletownnj.org)**

Table 3d.6

Summary of Responses  
Land Uses and Development Trends Questionnaire  
(Source: Core Planning Group Members)

Community	1. Land Uses and Development Trends in Hazard Areas	2. Regulations/Codes/Ordinances To Protect New Development From Natural Hazards
Middleton, Township of	<p>(Matawan, continued...)</p> <p>In addition to this development the Borough of Matawan is in the initial stages of a large scale re-development for the entire area of the Matawan-Aberdeen Train Station. The original plans called for a combination of retail, commercial and residential development in this area. The area has been approved as a Transit Village by New Jersey Transit. The entire re-development process was a joint venture with neighboring Aberdeen Twp. but has stalled due to on-going litigation.</p> <p>Development trends in recent years have essentially been a continuation of the trends and patterns of the past. New development consists largely of single family homes and <del>in</del> subdivisions and multifamily site plans. Typical subdivision applications currently range in size from <del>2-12.5-25</del> lots, <del>whereas in years past they tended to be much larger, with 30-50 lot developments being common</del> though there have been larger developments approved recently. <del>More</del> multi-family developments, both rental and for sale, have been occurring in the past 10 years and will likely continue. This is primarily due to the Township's efforts in complying with State mandated affordable housing obligations. More than 1,100 new units have been approved and/or built in the past decade and another <del>200-500 - 300-750</del> hundred are likely in the next 10 years. Densities typically range from 3 - 10 units per acre for single family developments, with project sizes ranging from 12 units to 150 units. Multifamily tends to have higher densities at 8-12 units per acre, sometimes higher. Some multi-family developments has occurred near the waterfront. There is also an area of 10 -15 acres near the waterfront that is adjacent to the commercial fishing cooperative that is slated for redevelopment in the next few years. Other than that the Bayshore area is mostly built out, with some infill development possibilities. <del>Newly enacted State regulations (11/5/07), applicable to floodplains, will have a significant impact on the magnitude of new development in these areas.</del> Commercial development continues steadily, although the scale of commercial projects is somewhat smaller. Nearly all of our major shopping centers have been fully rehabilitated within the past 10-15 years. Scattered smaller commercial and retail developments (5,000 - 10,000 square feet) continue to take place. The only major land uses not occurring much are large office developments and industrial development.</p>	<p>The Township participates extensively in the FEMA National Flood Insurance Rate Map Program. Properties are regularly reviewed to determine if they are located in flood hazard areas. If they are, special design and development standards are imposed and a Floodplain Encroachment Permit process is implemented, via Township Ordinance. <del>As indicated in #1 new State regulations applicable to flood hazard areas will severely limit new development and filling in floodplains.</del></p> <p>Design and development standards relative to earthquakes and high winds are implemented via state regulated uniform construction standards. Landslide hazards and wildfire hazards are typically not applicable here. The Township does have steep slope <del>conditions</del> regulations that limit and in some cases even prohibit developments that disturb sloped areas.</p>
Millstone, Township of	<p>Millstone Township is considered a Low Density rural residential. Development is permitted along stream corridors and limited areas of commercial development.</p>	<p>Millstone Township strictly enforces various township ordinances that protect new development from various natural hazards. We have in place Steep slopes, soil contamination, flood plain, conservation Easement and Storm water management ordinances.</p>
Monmouth Beach, Borough of	<p>Redevelopment of existing property to meet newer codes. US Coast Guard Life Saving Station reconstructed into Monmouth Beach Cultural Center. Flood Plain Management enacted.</p>	<p>Monmouth Beach complies with stormwater management rules; Drainage and road improvements for active flooding; Land disturbance ordinance enacted to prevent flooding encroachment; Seawall reconstruction to prevent encroaching ocean tides.</p>
Neptune City, Borough of	<p>Neptune City is 99% developed with majority of that as single family homes. It has some apartment complexes and commercial areas. There is a process of a possible 16 acres of redevelopment of high density housing.</p>	<p>At this time we do not. All new development is by the regular building codes.</p>



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

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Performing an assessment of Land Uses and Development Trends is one step of a FEMA-approved hazard mitigation plan update. This look into the future is important because development in hazard areas could put more assets at risk and, in turn, could work to increase potential disaster-related damages at a time when the mitigation plan's purpose is to reduce the potential for damages emanating from natural disasters. Land uses and development trends are based on the construction of new buildings, demolition of old buildings, or the planning, zoning or subdivision of new areas for development. A stagnant or decreasing population alone is not reason for stating that no development has occurred unless backed up by a lack of development.

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**Name:** Michael Kuczinski

**Title:** OEM Coordinator

**Representing:** Millstone Township

**Email and Phone:** [M-Kuczinski@millstone.nj.us](mailto:M-Kuczinski@millstone.nj.us) / 732-895-3802



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Land Uses and Development Trends Update

Performing an assessment of Land Uses and Development Trends is one step of a FEMA-approved hazard mitigation plan update. This look into the future is important because development in hazard areas could put more assets at risk and, in turn, could work to increase potential disaster-related damages at a time when the mitigation plan's purpose is to reduce the potential for damages emanating from natural disasters. Land uses and development trends are based on the construction of new buildings, demolition of old buildings, or the planning, zoning or subdivision of new areas for development. A stagnant or decreasing population alone is not reason for stating that no development has occurred unless backed up by a lack of development.

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Name:    Dennis\_Cahill

Title:    Emergency\_Management\_Coordinator

Representing:    Borough of Monmouth Beach

Email and Phone:    monmouthbeachoem@gmail.com 732-229-1331



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update Land Uses and Development Trends Update

Performing an assessment of Land Uses and Development Trends is one step of a FEMA-approved hazard mitigation plan update. This look into the future is important because development in hazard areas could put more assets at risk and, in turn, could work to increase potential disaster-related damages at a time when the mitigation plan's purpose is to reduce the potential for damages emanating from natural disasters. Land uses and development trends are based on the construction of new buildings, demolition of old buildings, or the planning, zoning or subdivision of new areas for development. A stagnant or decreasing population alone is not reason for stating that no development has occurred unless backed up by a lack of development.

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attached

Name:

Mary Sapp

Title:

Borough Administrator

Representing:

Borough of Neptune City

Email and Phone:

732-776-7224 x27

**Table 3d.6**  
**Summary of Responses**  
**Land Uses and Development Trends Questionnaire**  
*(Source: Core Planning Group Members)*

Community	I. Land Uses and Development Trends in Hazard Areas	2. Regulations/Codes/Ordinances To Protect New Development From Natural Hazards
<p><i>(Matawan, continued...)</i></p> <p>Middleton, Township of</p>	<p>In addition to this development the Borough of Matawan is in the initial stages of a large scale re-development for the entire area of the Matawan-Aberdeen Train Station. The original plans called for a combination of retail, commercial and residential development in this area. The area has been approved as a Transit Village by New Jersey Transit. The entire re-development process was a joint venture with neighboring Aberdeen Twp. but has stalled due to on-going litigation.</p> <p>Development trends in recent years have essentially been a continuation of the trends and patterns of the past. New development consists largely of single family homes and subdivisions. Typical subdivision applications currently range in size from 2-12 lots, whereas in years past they tended to be much larger, with 30 - 50 lot developments being common. More multi-family developments, both rental and for sale, have been occurring in the past 10 years and will likely continue. This is primarily due to the Township's efforts in complying with State mandated affordable housing obligations. More than 1,100 new units have been approved and/or built in the past decade and another 200 - 300 hundred are likely in the next 10 years. Densities typically range from 3 - 10 units per acre, with project sizes ranging from 12 units to 150 units. Some multi-family developments has occurred near the waterfront. There is also an area of 10 - 15 acres near the waterfront that is adjacent to the commercial fishing cooperative that is slated for redevelopment in the next few years. Other than that the Bayshore area is mostly built out, with some infill development possibilities. Newly enacted State regulations (11/5/07), applicable to those areas. Commercial development continues steadily, although the scale of commercial projects is somewhat smaller. Nearly all of our major shopping centers have been fully rehabilitated within the past 10-15 years. Scattered smaller commercial and retail developments (5,000 - 10,000 square feet) continue to take place. The only major land uses not occurring much are large office developments and industrial development.</p>	<p>The Township participates extensively in the FEMA National Flood Insurance Rate Map Program. Properties are regularly reviewed to determine if they are located in flood hazard areas. If they are, special design and development standards are imposed and a Floodplain Encroachment Permit process is implemented, via Township Ordinance. As indicated in #1 new State regulations applicable in flood hazard areas will severely limit new development and filling in Floodplains.</p> <p>Design and development standards relative to earthquakes and high winds are implemented via state regulated uniform construction standards. Landslide hazards and wildfire hazards are typically not applicable here. The Township does have steep slope conditions that limit and in some cases even prohibit developments that disturb sloped areas.</p>
Millstone, Township of	<p>Millstone Township is considered a Low Density rural residential. Development is permitted along stream corridors and limited areas of commercial development.</p>	<p>Millstone Township strictly enforces various township ordinances that protect new development from various natural hazards. We have in place Steep slopes, soil contamination, flood plain, conservation Easement and Storm water management ordinances.</p>
Monmouth Beach, Borough of	<p>Redevelopment of existing property to meet newer codes. US Coast Guard Life Saving Station reconstructed into Monmouth Beach Cultural Center. Flood Plain Management enacted.</p>	<p>Monmouth Beach complies with stormwater management rules; Drainage and road improvements for active flooding; Land disturbance ordinance enacted to prevent flooding encroachment; Seawall reconstruction to prevent encroaching ocean tides.</p>
Neptune City, Borough of	<p>Neptune City is 90% developed with majority of that as single family homes. It has some apartment complexes and commercial areas. There is a process of a possible 16 acres of redevelopment of high density housing. There is a five acre redevelopment area of which two acres just received approval for the construction of 36 townhomes. The Borough has two State Highways and is located near the hospital, so there is</p>	<p>At this time we do not. All new development is by the regular building code. Uniform Construction Code. The Borough has a Stormwater Management Ordinance and Land Use Board provisions if applicable.</p>

**Table 3d.6**

**Summary of Responses  
Land Uses and Development Trends Questionnaire  
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Community	1. Land Uses and Development Trends in Hazard Areas	2. Regulations/Codes/Ordinances To Protect New Development From Natural Hazards
Neptune, Township of	<p>construction of many office buildings.</p> <p>Development trends vary depending on the area of Neptune Township. Below is a listing based on location within the Township:</p> <p>Western Neptune: Medical office - 15,000 sf to 30,000 sf. Big Box Retail, including pad sites for restaurants, banks, pharmacies, and other retail, Major Subdivisions - not exceeding 20 lots.</p> <p>Eastern Neptune - In-fill residential, smaller lots. West Lake Ave. redevelopment area - dense mixed use including residential retail and office Former Ridge Ave. School Site redevelopment area - dense residential including single-family townhouses, and apartments.</p> <p>Other Areas: In-fill residential mainly including 2-lot minor subdivisions. Large expansion of regional hospital.</p> <p>Potential Redevelopment Areas: Transit Village - dense mixed use near railroad station. Shark River Waterfront- moderate dense residential with a portion of retail and hotel. Existing highway corridors - possible in-fill and new development.</p> <p>There is substantial redevelopment of commercial space along State Highway 35.</p> <p>Residential Development is basically of 2 kinds:</p> <p>1- Infill - Undeveloped parcels in the middle of an otherwise developed neighborhood. Usually large new homes on small lots.</p> <p>2-Age Restricted Adult Communities - Continuing construction on two large projects, while a third was recently completed.</p> <p>Currently a 44 home development is under construction off Port-au-Peck Ave between Oceanport Ave and East Main St. This is an over 50 complex and there is a retention pond on site. The next major development will be a commercial complex across from the above development, with rental units on the second level. Still awaiting a developer to take Project over. A 12 lot sub-division, on single family homes is planned off Port-au-Peck Ave between Branchport Ave and Myrtle Ave. There are concerns of storm water management for this site. A four unit townhouse complex is slated for Main St and Oceanport Ave. This borders water front area. 6 affordable housing units are being considered for Main St, with a water front border, but over 125 feet set back. A 36 unit three story condo on East Main St, which borders water front. An possibly a 6 story, 60 unit complex on water front property along the Shrewsbury River of Morris Place and River St. A major concern is Fort Monmouth will be closing and over 400 acres of property will become part of the Boro. Several redevelopment designs are presently being examined. Residential, commercial and recreational sites being looked at. Unable to give you an actual count of what each would be.</p>	<p>All buildings are designed for 120 mph winds due to the proximity to the Atlantic Ocean and potential hurricanes. Other building requirements include flood vents and hurricane clips. These are ICC codes that are enforced by the Township's building department.</p> <p>The local zoning ordinance has a section for steep slopes. Although Neptune Township is a coastal community, there are sections of town with steep slopes. The ordinance requires individuals proposing excavation and construction in areas greater than 25% slope to obtain variances, which require review by the planning or zoning board and board engineer.</p> <p>The Township doesn't have a flood plain ordinance and relies on FEMA, Special Flood Hazard Areas.</p>
Ocean, Township of		<p>We use the FEMA maps and also have a generally more restrictive local flood plain study. Any construction in a flood hazard area requires a variance from the Zoning Board of Adjustment. Variances are only granted after review by the Board Engineer. All applicable flood construction standards must be maintained.</p>
Oceanport, Borough of		<p>Yes, Floodplain. A 9 foot elevation or better. All new development and over 50% improvement based on the assessed value will require an elevation of 11.5 feet.</p>



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

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**Name:** Michael Bascom

**Title:** CMFO, OEM

**Representing:** Nephris Township

**Email and Phone:** mbascom@nephris township.org

**Table 3d.6**  
**Summary of Responses**  
**Land Uses and Development Trends Questionnaire**  
*(Source: Core Planning Group Members)*

Community	1. Land Uses and Development Trends in Hazard Areas	2. Regulations/Codes/Ordinances To Protect New Development From Natural Hazards
<p>Neptune, Township of</p> <p><i>Some of the areas designated as Special Hazards Areas already fully developed, i.e. portions of ocean front along Shark River Hills</i></p>	<p>Development trends vary depending on the area of Neptune Township. Below is a listing based on location within the Township:</p> <p>Western Neptune: Medical office - 15,000 sf to 30,000 sf. Big Box Retail, including pad sites for restaurants, banks, pharmacies, and other retail, Major Subdivisions - not exceeding 20 lots.</p> <p>Eastern Neptune - In-fill residential, smaller lots. West Lake Ave. redevelopment area - dense mixed use including residential retail and office Former Ridge Ave. School Site redevelopment area - dense residential including single-family townhouses, and apartments.</p> <p>Other Areas: In-fill residential mainly including 2-lot minor subdivisions. Large expansion of regional hospital.</p> <p>Potential Redevelopment Areas: Transit Village - dense mixed use near railroad station. Shark River Waterfront- moderate dense residential with a portion of retail and hotel. Existing highway corridors - possible in-fill and new development.</p> <p>There is substantial redevelopment of commercial space along State Highway 35.</p> <p>Residential Development is basically of 2 kinds:</p> <p>1- Infill - Undeveloped parcels in the middle of an otherwise developed neighborhood. Usually large new homes on small lots.</p> <p>2-Age Restricted Adult Communities - Continuing construction on two large projects, while a third was recently completed.</p>	<p>All buildings are designed for 120 mph winds due to the proximity to the Atlantic Ocean and potential hurricanes. Other building requirements include flood vents and hurricane clips. These are ICC codes that are enforced by the Township's building department.</p> <p>The local zoning ordinance has a section for steep slopes. Although Neptune Township is a coastal community, there are sections of town with steep slopes. The ordinance requires individuals proposing excavation and construction in areas greater than 25% slope to obtain variances, which require review by the planning or zoning board and board engineer.</p> <p><del>The Township does not have a flood plain ordinance and relies on FEMA, Special Flood Hazard Areas.</del></p>
<p>Ocean, Township of</p>	<p>Currently a 44 home development is under construction off Port-au-Peck Ave between Oceanport Ave and East Main St. This is an over 50 complex and there is a retention pond on site. The next major development will be a commercial complex across from the above development, with rental units on the second level. Still awaiting a developer to take Project over. A 12 lot sub-division, on single family homes is planned off Port-au-Peck Ave between Branchport Ave and Myrtle Ave. There are concerns of storm water management for this site. A four unit townhouse complex is slated for Main St and Oceanport Ave. This borders water front area. 6 affordable housing units are being considered for Main St. with a water front border, but over 125 feet set back. A 36 unit three story condo on East Main St. which borders water front. An possibly a 6 story, 60 unit complex on water front property along the Shrewsbury River of Morris Place and River St. A major concern is Fort Monmouth will be closing and over 400 acres of property will become part of the Boro. Several redevelopment designs are presently being examined. Residential, commercial and recreational sites being looked at. Unable to give you an actual count of what each would be.</p>	<p>We use the FEMA maps and also have a generally more restrictive local flood plain study. Any construction in a flood hazard area requires a variance from the Zoning Board of Adjustment. Variances are only granted after review by the Board Engineer. All applicable flood construction standards must be maintained.</p> <p>Yes, Floodplain. A 9 foot elevation or better. All new development and over 50% improvement based on the assessed value will require an elevation of 11.5 feet.</p>



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### *Land Uses and Development Trends Update*

Performing an assessment of Land Uses and Development Trends is one step of a FEMA-approved hazard mitigation plan update. This look into the future is important because development in hazard areas could put more assets at risk and, in turn, could work to increase potential disaster-related damages at a time when the mitigation plan's purpose is to reduce the potential for damages emanating from natural disasters. Land uses and development trends are based on the construction of new buildings, demolition of old buildings, or the planning, zoning or subdivision of new areas for development. A stagnant or decreasing population alone is not reason for stating that no development has occurred unless backed up by a lack of development.

An evaluation of land uses and development trends was undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Land Uses and Development Trends section are included in the pages to follow, documenting your community's prior feedback. Please review your community's feedback shown in the table on the pages to follow, and identify any changes that have occurred since that time. Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

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**See below narrative**

**Name:** Tom Caruso

**Title:** Emergency Management Director

**Representing:** Ocean Twp

**Email and Phone:** tcaruso@oceantwp.org // 732-531-5000 x3378

<p align="center"><b>Table 3d.6</b>  <b>Summary of Responses</b>  <b>Land Uses and Development Trends Questionnaire</b>  <b>(Source: Core Planning Group Members)</b></p>	
Community	<p align="center"><b>1. Land Uses and Development Trends in Hazard Areas</b></p>
Neptune, Township of	<p>Development trends vary depending on the area of Neptune Township. Below is a listing based on location within the Township:</p> <p>Western Neptune—Medical office—15,000-sf to 30,000-sf; Big-Box Retail; including pad sites for restaurants, banks, pharmacies, and other retail; Major Subdivisions—not exceeding 20-lots.</p> <p>Eastern Neptune—In-fill residential; smaller lots; West Lake Ave. redevelopment area—dense mixed use including residential retail and office; Former Ridge Ave. School Site redevelopment area—dense residential including single-family townhouses, and apartments.</p> <p>Other Areas—In-fill residential mainly including 2-lot minor subdivisions; Large expansion of regional hospital.</p> <p>Potential Redevelopment Areas—Transit Village—dense mixed use near railroad station; Shark River Waterfront—moderate dense residential with a portion of retail and hotel; Existing highway corridors—possible in-fill and new development.</p>
Ocean, Township of	<p>There is substantial redevelopment of commercial space along State Highway 35. Residential Development is basically of 3 kinds:</p> <p>1- Infill – Undeveloped parcels in the middle of an otherwise developed neighborhood. Usually large new homes on small lots. This is a small percentage of the new construction.</p> <p>2-Age Restricted Adult Communities – Continuing construction on two large projects, while a third was recently completed. There is a fourth project being development due to two mitigation grants received.</p> <p>3- There are three new developments being established or exploring their options within the township.</p>
Oceanport, Borough of	<p>Currently a 44 home development is under construction off Port au Peck Ave between Oceanport Ave and East Main St. This is an over 50 complex and there is a retention pond on site. The next major development will</p>
	<p align="center"><b>2. Regulations/Codes/Ordinances To Protect New Development From Natural Hazards</b></p> <p>All buildings are designed for 120 mph winds due to the proximity to the Atlantic Ocean and potential hurricanes. Other building requirements include flood vents and hurricane clips. These are ICC codes that are enforced by the Township's building department.</p> <p>The local zoning ordinance has a section for steep slopes. Although Neptune Township is a coastal community, there are sections of town with steep slopes. The ordinance requires individuals proposing excavation and construction in areas greater than 25% slope to obtain variances, which require review by the planning or zoning board and board engineer.</p> <p>The Township doesn't have a flood plain ordinance and relies on FEMA's Special Flood Hazard Areas.</p>
	<p>We use the FEMA maps and also have a generally more restrictive local flood plain study. Any construction in a flood hazard area requires a variance from the Zoning Board of Adjustment. Variances are only granted after review by the Board Engineer. All applicable flood construction standards must be maintained.</p>
	<p>Yes, Floodplain. A 9 foot elevation or better. All new development and over 50% improvement based on the assessed value will require an elevation of 11.5 feet.</p>

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**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

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**Name: \_\_Mauro V. Baldanza**

**Title: \_\_OEM Coordinator**

**Representing: \_\_Boro of Oceanport**

**Email and Phone: \_\_OPD415@verizon.net      732-904-0520**

**Local Land Uses and Development Trends - 2009 Plan**

For the initial Plan, Core Planning Group members were asked to provide responses to a Land Uses and Development Trends Questionnaire for the individual jurisdictions. This brief questionnaire consisted of the following two questions:

1. Please describe development trends occurring within your jurisdiction, such as the predominant types of development occurring, location, expected intensity, and pace by land use. While details are preferred, it is ok if your feedback is qualitative and quite general, such as “*high-occupancy, high-density residential development is occurring near the waterfront*”.
2. Does your jurisdiction enforce regulations/ordinances/codes to protect new development from the effects of natural hazards? (Some examples might be floodplain management ordinances enforcing FEMA’s NFIP for new development or substantial improvements in the floodplain; steep slope ordinances for community’s which may have landslide hazards; earthquake resistant design criteria and/or high wind design criteria; or buffer zones in wildfire hazard areas.) If so, please describe.

Responses to these two questions, as submitted by each jurisdiction, are presented in the following table.

Table 3d.6

**Completed:**

The 44 home development.  
The four unit townhouse

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**Under construction:**

Major commercial development with rental units above on East Main St.

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**No action:**

12 Lots sub-division off Port-au-Peck Ave is on hold; asbestos was found on the property.  
36 unit, 3 story condo- still no action  
6 affordable housing units off Main St.

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**Defeated:**

6 story high rise off Morris Place and River St.

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**Pending:**

Fort Monmouth- consisting of about 419 acres, almost 25% more in area to town.  
Education-Medical campus mixed-income housing  
McAfee Center & Squier Hall reuse green industry technology cluster  
Historic housing reuse  
Oceanport municipal center marina, retail, mixed-income housing

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**Elevations:**

200 homes have indicated the need to elevate

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**Regulations:**

BFE plus 2 feet. All new development and over 50% improvement is required

<p align="center"><b>Table 3d.6</b>  <b>Summary of Responses</b>  <b>Land Uses and Development Trends Questionnaire</b>  <i>(Source: Core Planning Group Members)</i></p>		
<b>Community</b>	<b>I. Land Uses and Development Trends in Hazard Areas</b>	<b>2. Regulations/Codes/Ordinances To Protect New Development From Natural Hazards</b>
Neptunes, Township of	<p>Development trends vary depending on the area of Neptune Township. Below is a listing based on location within the Township:</p> <p>Western Neptune: Medical office - 15,000 sf to 30,000 sf. Big Box Retail, including pad sites for restaurants, banks, pharmacies, and other retail, Major Subdivisions - not exceeding 20 lots.</p> <p>Eastern Neptune - In-fill residential, smaller lots. West Lake Ave. redevelopment area - dense mixed use including residential retail and office Former Ridge Ave. School Site redevelopment area - dense residential including single-family townhouses, and apartments.</p> <p>Other Areas: In-fill residential mainly including 2-lot minor subdivisions. Large expansion of regional hospital.</p> <p>Potential Redevelopment Areas: Transit Village - dense mixed use near railroad station. Shark River Waterfront- moderate dense residential with a portion of retail and hotel. Existing highway corridors - possible in-fill and new development.</p> <p>There is substantial redevelopment of commercial space along State Highway 35:</p> <p>1- Infill - Undeveloped parcels in the middle of an otherwise developed neighborhood. Usually large new homes on small lots.</p> <p>2-Age Restricted Adult Communities - Continuing construction on two large projects, while a third was recently completed.</p> <p>Currently a 44 home development is under construction off Port-au-Peck Ave between Oceanport Ave and East Main St. This is an over 50 complex and there is a retention pond on site. The next major development will be a commercial complex across from the above development, with rental units on the second level. Still awaiting a developer to take Project over A 12 lot sub-division, on single family homes is planned off Port-au-Peck Ave between Branchport Ave and Myrtle Ave.</p> <p>There are concerns of storm water management for this site. A four unit townhouse complex is slated for Main St and Oceanport Ave. This borders water front area. 6 affordable housing units are being considered for Main St. with a water front border, but over 125 feet set back. A 36 unit three story condo on East Main St. which borders water front. An possibly a 6 story, 60 unit complex on water front property along the Shrewsbury River of Morris Place and River St. A major concern is Fort Monmouth will be closing and over 400 acres of property will become part of the Boro. Several redevelopment designs are presently being examined. Residential, commercial and recreational sites being looked at. Unable to give you an actual count of what each would be.</p>	<p>All buildings are designed for 120 mph winds due to the proximity to the Atlantic Ocean and potential hurricanes. Other building requirements include flood vents and hurricane clips. These are ICC codes that are enforced by the Township's building department.</p> <p>The local zoning ordinance has a section for steep slopes. Although Neptune Township is a coastal community, there are sections of town with steep slopes. The ordinance requires individuals proposing excavation and construction in areas greater than 25% slope to obtain variances, which require review by the planning or zoning board and board engineer.</p> <p>The Township doesn't have a flood plain ordinance and relies on FEMA, Special Flood Hazard Areas.</p>
Ocean, Township of	<p>We use the FEMA maps and also have a generally more restrictive local flood plain study. Any construction in a flood hazard area requires a variance from the Zoning Board of Adjustment. Variances are only granted after review by the Board Engineer. All applicable flood construction standards must be maintained.</p>	<p>Yes, Floodplain. A 9 foot elevation or better. All new development and over 50% improvement based on the assessed value will require an elevation of 11.5 feet.</p>
Oceanport, Borough of	<p>Currently a 44 home development is under construction off Port-au-Peck Ave between Oceanport Ave and East Main St. This is an over 50 complex and there is a retention pond on site. The next major development will be a commercial complex across from the above development, with rental units on the second level. Still awaiting a developer to take Project over A 12 lot sub-division, on single family homes is planned off Port-au-Peck Ave between Branchport Ave and Myrtle Ave.</p> <p>There are concerns of storm water management for this site. A four unit townhouse complex is slated for Main St and Oceanport Ave. This borders water front area. 6 affordable housing units are being considered for Main St. with a water front border, but over 125 feet set back. A 36 unit three story condo on East Main St. which borders water front. An possibly a 6 story, 60 unit complex on water front property along the Shrewsbury River of Morris Place and River St. A major concern is Fort Monmouth will be closing and over 400 acres of property will become part of the Boro. Several redevelopment designs are presently being examined. Residential, commercial and recreational sites being looked at. Unable to give you an actual count of what each would be.</p>	<p>All buildings are designed for 120 mph winds due to the proximity to the Atlantic Ocean and potential hurricanes. Other building requirements include flood vents and hurricane clips. These are ICC codes that are enforced by the Township's building department.</p> <p>The local zoning ordinance has a section for steep slopes. Although Neptune Township is a coastal community, there are sections of town with steep slopes. The ordinance requires individuals proposing excavation and construction in areas greater than 25% slope to obtain variances, which require review by the planning or zoning board and board engineer.</p> <p>The Township doesn't have a flood plain ordinance and relies on FEMA, Special Flood Hazard Areas.</p>



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Land Uses and Development Trends Update

Performing an assessment of Land Uses and Development Trends is one step of a FEMA-approved hazard mitigation plan update. This look into the future is important because development in hazard areas could put more assets at risk and, in turn, could work to increase potential disaster-related damages at a time when the mitigation plan's purpose is to reduce the potential for damages emanating from natural disasters. Land uses and development trends are based on the construction of new buildings, demolition of old buildings, or the planning, zoning or subdivision of new areas for development. A stagnant or decreasing population alone is not reason for stating that no development has occurred unless backed up by a lack of development.

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Although there are several on going projects concerning Residential + Commercial, there has been only 1 Developed area from what used to be vacant, LI Zone. 36 unit AFFordable housing.

Name: Thomas J Welsh

Title: OEM Coordinator

Representing: Borough of Red Bank

Email and Phone: t.welsh@redbanknj.org 732-904-6865

Table 3d.6

Summary of Responses  
Land Uses and Development Trends Questionnaire  
(Source: Core Planning Group Members)

Community	1. Land Uses and Development Trends in Hazard Areas	2. Regulations/Codes/Ordinances To Protect New Development From Natural Hazards
Red Bank, Borough of	Five major projects under construction, including mixed-use structures, the largest of which includes more than 83,000 sf office space and a three-story parking garage. 10 significant projects approved for construction, several more pending board approval. (Full details were provided by the Planning and Zoning Dept.)	The planning and zoning process enforces stormwater regulations in accordance with the Borough Stormwater Ordinance. Where appropriate, we require applicants for development apply to the appropriate State agencies to gain approval for applicable floodplain requirements, CAFRA and waterfront development permits, including coastal bluff. Applicants are required, as a condition of Borough approvals, to obtain all required NIDEP permits. Refer to the building department for earthquake resistant design criteria and other building issues.
Roosevelt, Borough of	Due to the historical restrictions and open space preservation efforts, very little development is going on in Roosevelt at this time. The last large-scale residential development that was proposed was vehemently opposed and eventually turned down. The last spurt of residential development happened in the 1970s, with a house being built every few years since then. We have a very small industrial zone, which has little to no development happening or planned, as well as a very small commercial zone which also has little to no development happening or planned.	We have no such regulations at this time.
Rumson, Borough of	The Borough of Rumson is basically fully developed. New households (approximately four per year) are the result of the demolition of an existing house and the building of two homes to replace the former residence. The two new homes that are built are generally larger than the original home. Many smaller ranch homes are being demolished and replaced with larger, two-story homes.	The Borough of Rumson follows State conservation guidelines and codes for all new houses built in the Borough. The Borough of Rumson follows all FEMA guidelines for construction and development in flood areas. In addition, our construction official and zoning officers utilize our Borough Engineer for compliance testing for all applications submitted to the Borough.
Sea Bright, Borough of	Sea Bright is near fully developed. Any development proposed is typically rehabilitation or small scale redevelopment site. Downtown redevelopment is occurring on a small scale as well with some new businesses moving in and older, small bungalows being demolished, rebuilt, or raised out of flood zone. Waterfront development is minimal and regulated by CAFRA.	We have a flood damage prevention Ordinance as well as a new Stormwater Management Ordinance. We also have a Beach Preservation Ordinance and an established Coastal Protection Zone, running along the beachfront.
Sea Girt, Borough of	Sea Girt is a predominately a fully built up community. There is no or virtually no, open land for building. Residents that have double lots often break them up into two lots and sell them off. The impact of this type building is negligible on our infrastructure as well as our school system. Many homes being built in this manner, or new homes in general, belong to summer residents or part time residents in that make Sea Girt their home part of the year. The summer season, say from mid-April to mid-October is when the community is at its peak with residents and visitors. The town is almost 1.1 square miles.	All homes built within the mile zone of the ocean are required to either have hurricane proof glass or regular windows with plywood storm panels for each individual window. Residents in the zero one hundred block are recommended to install hurricane shutters on their east facing windows and are also advised to utilize high wind building design. Recently The Borough rebuilt the Lifeguard Headquarters and Beachfront pavilion and during the process which I was intimately involved in – for example – the Borough took the lead in using some of the above mentioned items for storm and natural hazard protection both at the recommendation of the Borough Engineer and the residents.
Shrewsbury, Borough of	Development patterns in the Borough have trended towards infill development as well as commercial re-development. A recent vacant land development analysis undertaken by the Borough revealed that there are no vacant parcels that are suited for development. The majority of future land development applications are expected to be largely made up of re-development initiatives of commercial properties along Broad Street (Hwy 35) and secondary arterials which are situated in commercial zones. It is also expected that mixed use residential & commercial development shall occur in non-residential zones as part of the Borough's Fair-Share Affordable Housing Plan to create real opportunities for affordable housing in the Borough.	The Borough of Shrewsbury has enacted certain ordinances to protect against hazards due to natural disasters, including the following: §122 Flood Hazard Areas §94-5.13 Preservation of Natural Features §94-8.39 Stormwater Control.





## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Land Uses and Development Trends Update*

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Name: Michael L. Ticktin

Title: Councilman

Representing: Borough of Roosevelt

Email and Phone: Mticktin@aol.com (609) 947-0491



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Land Uses and Development Trends Update

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Name: Thomas S Rogers

Title: Administrator

Representing: Borough of Rumson

Email and Phone: trogers@rumsonnj.gov 732-842-3300



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

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**Name:** C.Read—Murphy

**Title:** OEM Coordinator

**Representing:** Sea Bright NJ



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

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**Name:** \_\_\_\_\_ **Tim Harmon and Peter Avakian**

**Title:** \_\_\_\_\_ **OEM Coordinator and Boro Engineer**\_\_\_\_\_

**Representing:** \_\_\_\_\_ **Sea Girt Borough**\_\_\_\_\_

**Email and Phone:** \_\_\_\_\_ **tharmon@seagirtboro.com and lsavakian@aol.com**\_\_\_\_\_



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Land Uses and Development Trends Update

Performing an assessment of Land Uses and Development Trends is one step of a FEMA-approved hazard mitigation plan update. This look into the future is important because development in hazard areas could put more assets at risk and, in turn, could work to increase potential disaster-related damages at a time when the mitigation plan's purpose is to reduce the potential for damages emanating from natural disasters. Land uses and development trends are based on the construction of new buildings, demolition of old buildings, or the planning, zoning or subdivision of new areas for development. A stagnant or decreasing population alone is not reason for stating that no development has occurred unless backed up by a lack of development.

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Name: JerzyChojnacki

Title: OEMCoordinator

Representing: ShrewsburyBorough

Email and Phone: shrewsburyoem@yahoo.com 7327968331



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

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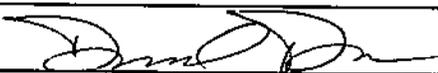
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\_\_\_\_\_

\_\_\_\_\_

**Name:** Daniel Dunn 

**Title:** OEM Coordinator

**Representing:** Township of Shrewsbury

**Email and Phone:** dunn.daniel.j@gmail.com (732) 986-3207



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

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\* Please note Borough is 1.728<sup>sq miles</sup> total land area  
 1.3 land area and .4<sup>sq miles</sup> of water area.

Name: W. Bryan Dempsey

Title: Borough Administrator

Representing: Spring Lake Borough

Email and Phone: bdempsey@springlakeboro.org 732-449-0800 ext 614



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

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**Name Joseph May**

**Title Borough Engineer**

**Representing: Boro of Spring Lake Heights**

**Email and Phone: [jmay@springlakehts.com](mailto:jmay@springlakehts.com) 908-770  
8787**

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**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

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**CHANGES FOR TINTON FALLS ARE HIGHLIGHTED IN YELLOW IN TABLE 3d.6**

**Name:** David Boehning

**Title:** Deputy Coordinator, Tinton Falls Office of Emergency Management

**Representing:** Borough of Tinton Falls

**Email / Phone:** [dboehning@tintonfalls.com](mailto:dboehning@tintonfalls.com) 732-542-3400x235

**Table 3d.6**  
**Summary of Responses**  
**Land Uses and Development Trends Questionnaire**  
**(Source: Core Planning Group Members)**

Community	1. Land Uses and Development Trends in Hazard Areas	2. Regulations/Codes/Ordinances To Protect New Development From Natural Hazards
<p>Shrewsbury, Township of</p> <p>Spring Lake, Borough of</p>	<p>Shrewsbury Township does not have growth capacity to develop any of our land. To put simply, we do not have any room to grow as a community.</p> <p>Spring Lake Borough land area is approximately 1.3 sq miles, with the Atlantic on the East and bordered by the communities of Lake Como, Spring Lake Heights and Sea Girt and Wall. It is a fully developed community with mature settlement patterns and little vacant land (identified by the state as part of the Metropolitan Planning Area). Spring Lake developed a 1974 Zoning and Land Use Plan in 1974 when it developed its current Master Plan. That Plan has been reviewed periodically. In 2007 the Borough is conducting a "Comprehensive Master Plan Update". This Master Plan Update will be consistent with the Monmouth County Growth Management Guide/Coastal Monmouth Plan (1995). The Borough has undergone a transformation from a resort community to a more year round bedroom community. Most construction today involves either renovation of older homes or the tear down of older homes and construction of new, significantly larger homes on existing lots. The Borough currently owns 119.45 acres of open space and 80.89 acres of land available to the public for active or passive recreational use. This land percentage compares favorably with National Recreation and Park Association standards. The Master Plan Update objectives for Land Use focus on maintaining the quality of residential neighborhoods, encouraging the development of the business district and maintaining the traditional elements of neighborhoods such as sidewalks, alleys, front porches, public spaces, green spaces and street trees.</p>	<p>We do not see these types of codes essential to our emergency management growth and development plan.</p> <p>The town does not have specific regulations or ordinances specific for the protection of new development from the effects of natural hazards. However the Borough has taken the steps to develop a Stormwater Management Plan; the Borough is a member of a County managed watershed working group for Wreck Pond that addresses a multitude of issues related to the watershed and water management. The Borough is considering steps to mitigate the risk of damage from floods in flood prone areas by allowing variances in zoning for persons desiring to elevate homes. It is also reviewing maximum lot coverage and maximum impervious coverage with consideration to storm runoff and management. The Borough will include a Land Use Element in the 2007 Master Plan Update.</p>
<p>Spring Lake Heights, Borough of</p>	<p>The Borough of Spring Lake Heights enforces Zoning Ordinance Section 22-513 Flood Plain Regulations which restricts development in the flood plain. The Borough of Spring Lakes enforces Zoning Ordinance Section 22-513.2 Elevations which restricts development below the 100 year flood hazard elevation. The Borough of Spring Lake Heights currently enforces all applicable codes and regulations for building construction required by the State of New Jersey, namely the Uniform Construction Code which regulated high wind design criteria.</p>	<p>The Borough of Spring Lake Heights is essentially built out. There is approximately 5% or less of vacant/undeveloped land available in the Borough. The majority of development is residential in nature and occurs as part of home additions and renovations. Records indicate the Borough of Spring Lake Heights has not issued a multi-family building permit from 2000 to 2006. The Borough issued a total of 23 single-family building permits in 2006 of which the majority were home additions and improvements. There were a total number of 133 single-family residential building permits issued in the Borough of Spring Lake Heights from 2000 thru 2006.</p>
<p>Tinton Falls, Borough of</p>	<p>Residential: Recent residential development trends in Tinton Falls have been in line with existing zoning, and include several approved higher density developments with an affordable housing component (i.e., Rose Glen @ Tinton Falls, Meadowbrook II, and Heather Glenn @ Tinton Falls (Former CECOM Site)). These developments will result in well over 600 new residential units. Greenbriar Falls, a new active adult community currently in its final stage of construction, will contain 168 residential units. In addition, many of the larger residential developments in the Borough, such as Fox Chase, The Pines, and Seabrook, have reached their full built-out potential. There is also a steady flow of smaller subdivisions that have been approved under the Borough's zoning standards.</p> <p align="right"><i>(continued on next page...)</i></p>	<p>The Borough currently takes several different approaches to protect new development from natural hazards in its Land Development Ordinance. One approach is to exclude critical areas from building areas, yard and buffer requirements. The Borough has also adopted FEMA Flood Hazard Prevention Ordinance to regulate areas within Special Flood Hazard areas. All approvals are subject to NJDEP permits as applicable.</p>

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	<p><i>(Tinton Falls, continued...)</i></p> <p>Non-Residential: By far the largest non-residential development planned in Tinton Falls is the redevelopment of Fort Monmouth. Currently CommVault is under construction on 55 acres and will consist of three phases of high-tech research and development offices. The initial phase will be 250,000 square feet with an ultimate build-out of nearly 700,000 square feet. Additional parcels within Fort Monmouth will be redeveloped in accordance with the FMERA Plan. The only other sizable non-residential construction recently completed is the 100-acre solar farm along Shafto Road. This development offset the development of 300+ single family homes and now generates an equivalent amount of solar energy.</p> <p>There are a number of other smaller-scale non-residential developments that have recently been approved, including a day care facility in the existing Tinton Falls Centre. A number of construction projects have recently been completed including a Wawa convenience store with fuel, Johnstone HVAC Supply, and Sonic Restaurant. In general, there is a steady stream of smaller-scale non-residential development (e.g. office, warehousing) being approved in Tinton Falls, particularly within the MFG and IOP zones along Shafto Road.</p>	
Union Beach, Borough of	<p>The Borough of Union Beach is a predominantly developed suburban community with single-family housing located on lots ranging from 2,000 square feet to 75,620 square feet. The Borough is nearly fully developed with very little land that is not impacted by environmental constraints available for development. Most of the development in the Borough is redevelopment, rehabilitation of older housing or infill development in established neighborhoods with the exception of a portion of the shorefront area. The area along the shorefront north of Brook Avenue extending west to the intersection of Front Street and Union Avenue. This area has been re-zoned as the townhouse district with townhouses as a principal permitted use having a density not to exceed ten units per acre (medium-density residential).</p>	<p>The Borough Council adopted a Floodplain Mitigation Plan on July 18, 2003 as part of the National Flood Insurance Community Rating Program. In addition, the Borough's Floodplain Management Ordinance requires all new development to conform to the Regulations of State and Federal Flood Insurance Program.</p>
Upper Freehold, Township of	<p>Upper Freehold Township's number one goal is preserving farmland and open space and we currently have in excess of 7,000 acres in the farmland preservation program. The type of residential development that we do have is generally subdivisions of 49 lots and under. They occur in all areas of the township with several of them located near neighboring Allentown Borough. Approximately 13 developments have been approved in the last 3-4 years resulting in approximately 475 single-family homes, when built out has been completed which may take many, many years. (Several of these sub-divisions only have preliminary approval; therefore, no building has begun.). We also have a small amount of commercial development within the Township such as small plazas with allowable retail uses (i.e. hair salons, convenience stores, doctor/professional offices, nursery schools, etc.)</p>	<p>Upper Freehold Township has adopted and enforces the following:</p> <ul style="list-style-type: none"> <li>35-604 Flood plain areas (Flood Plain Management)</li> <li>35-502 Storm Water Management</li> <li>15% Steep Slope</li> <li>2006 International Residential and Commercial Code</li> <li>100 mph wind load</li> <li>20 lb. live/10 lb dead snow land</li> </ul>
Wall, Township of	<p>Single Family development has slowed currently. Renovations and single family tear downs and rebuilds have moderately increased. Commercial development is steady, particularly along the Route 34 corridors. There are currently two higher density</p>	<p>Building design criteria follows current regulations with regards to earthquake and high wind design criteria. All development is reviewed with respect to impacts of floodplains through the township's Floodplain Management Ordinance.</p>



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

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**Name:** Ed Broberg

**Title:** Borough Engineer

**Representing:** Borough Engineer UNION BEACH

**Email and Phone:** Ebroberg@tandmassociates.com 732-671-6400

**Table 3d.6**  
**Summary of Responses**  
**Land Uses and Development Trends Questionnaire**  
*(Source: Core Planning Group Members)*

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	<p><i>(Tinton Falls, continued...)</i></p> <p>Non-Residential: By far the largest non-residential development planned in Tinton Falls is the Jersey Shore Premium Outlets (Chelsea Outlets), which will contain approximately 450,000 square feet of retail space. Infrastructure construction has already begun on the outlets, which will be located just off the Garden State Parkway at Exit 100 along Essex Road and Route 66. There are a number of other smaller-scale non-residential developments that have been approved, including a Wawa convenience store and gas station. The Tinton Falls Towne Centre, which will contain approximately 24,000 square feet of retail space, has recently been completed. In general, there is a steady stream of smaller-scale non-residential development (e.g. office, warehousing) being approved in Tinton Falls, particularly within the MFG and IOP zones.</p>	
Union Beach, Borough of	<p>Prior to Sandy, the Borough of Union Beach is a predominantly developed suburban community with single-family housing located on lots ranging from 2,000 square feet to 75,620 square feet. The Borough is nearly fully developed with very little land that is not impacted by environmental constraints available for development. Most of the development in the Borough is redevelopment, rehabilitation of older housing or infill development in established neighborhoods with the exception of a portion of the shorefront area. The area along the shorefront north of Brook Avenue extending west to the intersection of Front Street and Union Avenue. This area has been re-zoned as the townhouse district with townhouses as a principal permitted use having a density not to exceed ten units per acre (medium-density residential). After Sandy, the Borough has several areas in the Borough that will need to be reconstructed with residential housing and their waterfront will need to be reconstructed.</p>	<p>The Borough Council adopted a Floodplain Mitigation Plan on July 18, 2003 as part of the National Flood Insurance Community Rating Program. In addition, the Borough's Floodplain Management Ordinance requires all new development to conform to the Regulations of State and Federal Flood Insurance Program. The Borough adopted the FEMA ABFE and modified their ordinances including the height ordinance to accommodate these new ABFE.</p>
Upper Freehold, Township of	<p>Upper Freehold Township's number one goal is preserving farmland and open space and we currently have in excess of 7,000 acres in the farmland preservation program. The type of residential development that we do have is generally subdivisions of 49 lots and under. They occur in all areas of the township with several of them located near neighboring Allentown Borough. Approximately 13 developments have been approved in the last 3-4 years resulting in approximately 475 single-family homes, when built out has been completed which may take many, many years. (Several of these sub-divisions only have preliminary approval; therefore, no building has begun.). We also have a small amount of commercial development within the Township such as small plazas with allowable retail uses (i.e. hair salons, convenience stores, doctor/professional offices, nursery schools, etc.)</p>	<p>Upper Freehold Township has adopted and enforces the following:</p> <ul style="list-style-type: none"> <li>35-604 Flood plain areas (Flood Plain Management)</li> <li>35-502 Storm Water Management</li> <li>15% Steep Slope</li> <li>2006 International Residential and Commercial Code</li> <li>100 mph wind load</li> <li>20 lb. live/10 lb dead snow land</li> </ul>
Wall, Township of	<p>Single Family development has slowed currently. Renovations and single family tear downs and rebuilds have moderately increased. Commercial development is steady, particularly along the Route 34 corridors. There are currently two higher density residential projects under construction. There are no new high density residential developments being considered. There are no major waterfront developments.</p>	<p>Building design criteria follows current regulations with regards to earthquake and high wind design criteria. All development is reviewed with respect to impacts of floodplains through the township's floodplain Management Ordinance. Natural features such as steep slopes, wetlands etc., are preserved per state and local regulations Ordinances.</p>
West Long Branch, Borough of	<p>Development in West Long Branch is minimal as the municipality is somewhat developed to the maximum. There are some minor sub-divisions planned for the last</p>	<p>Our Zoning and Planning Boards enforce the Land Use Code and Monitor any specific hazards. There are no obvious potentials such as landslides or wildfires.</p>



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

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**Name:** MICHAEL CONROY

**Title:** EMERGENCY MANAGEMENT COORDINATOR

**Representing:** UPPER FREEHOLD TOWNSHIP, MONMOUTH COUNTY, NEW JERSEY

**Email and Phone:** [MCONROY@UFTNJ.COM](mailto:MCONROY@UFTNJ.COM) (609) 548 - 7191



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Land Uses and Development Trends Update*

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**Name:** Nora Coyne

**Title:** Assistant Planner

**Representing:** Township of Wall, Land Use Office

**Email and Phone:** [jcoyne@townshipofwall.com](mailto:jcoyne@townshipofwall.com) (732) 449-8444 ext. 209

**Table 3d.6**  
**Summary of Responses**  
**Land Uses and Development Trends Questionnaire**  
*(Source: Core Planning Group Members)*

Community	1. Land Uses and Development Trends in Hazard Areas	2. Regulations/Codes/Ordinances To Protect New Development From Natural Hazards
Wall, Township of	<p>Single family residential development increased moderately as developers of previously approved subdivisions have begun to act on projects that had been stagnant for some time. Renovations and single family tear downs and rebuilds have continued to increase. Commercial development is steady, with rehabilitation of existing office and retail spaces predominating. There are no new high density residential developments being considered. One large scale medium density residential development is currently pending before the Zoning Board of Adjustment. There are no major waterfront developments and no major developments proposed within Flood Hazard Areas. The majority of Flood Hazard Areas within the Township are along corridors that are predominantly zoned for open space or single family residential development.</p> <p><del>Single Family development has slowed currently. Renovations and single family tear downs and rebuilds have moderately increased. Commercial development is steady, particularly along the Route 34 corridors. There are currently two higher density residential projects under construction. There are no new high density residential developments being considered. There are no major waterfront developments.</del></p>	<p>Building design criteria follows current regulations with regards to earthquake and high wind design criteria. All development is reviewed with respect to impacts of floodplains through the township's floodplain Management Ordinance. Natural features such as steep slopes, wetlands etc., are preserved per state <del>regulations</del> and local <del>regulations</del> ordinances.</p>
West Long Branch, Borough of	<p>Development in West Long Branch is minimal as the municipality is somewhat developed to the maximum. There are some minor sub-divisions planned for the last remaining open space parcels which will amount to a dozen or so home and a planned residential townhouse project.</p>	<p>Our Zoning and Planning Boards enforce the Land Use Code and Monitor any specific hazards. There are no obvious potentials such as landslides or wildfires. There are some minor flooding areas.</p>



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Land Uses and Development Trends Update

Performing an assessment of Land Uses and Development Trends is one step of a FEMA-approved hazard mitigation plan update. This look into the future is important because development in hazard areas could put more assets at risk and, in turn, could work to increase potential disaster-related damages at a time when the mitigation plan's purpose is to reduce the potential for damages emanating from natural disasters. Land uses and development trends are based on the construction of new buildings, demolition of old buildings, or the planning, zoning or subdivision of new areas for development. A stagnant or decreasing population alone is not reason for stating that no development has occurred unless backed up by a lack of development.

An evaluation of land uses and development trends was undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Land Uses and Development Trends section are included in the pages to follow, documenting your community's prior feedback. Please review your community's feedback shown in the table on the pages to follow, and identify any changes that have occurred since that time. Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

Please check box A or B below.

A) I certify that I have reviewed my community's feedback from the 2009 Land Uses and Development Trends assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)

B) I certify that I have reviewed my community's feedback from the 2009 Land Uses and Development Trends assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)

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Name: Paul Habermann \_\_\_\_\_

Title: OEM Coordinator \_\_\_\_\_

Representing: \_\_\_ Borough of West Long Branch \_\_\_\_\_

Email and Phone: [p\\_habermann@westlongbranch.org](mailto:p_habermann@westlongbranch.org)

**APPENDIX 1.6 – WORKSHEET 4: CAPABILITY ASSESSMENTS**



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
**Capability Assessment Update**

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

**A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**

**B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

\_\_\_\_\_  
\_\_\_\_\_

**Then, review and answer the supplemental questions on Page 7. Check box C.**

**C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** Margaret Murnane Brooks

**Title:** Deputy OEM Coordinator

**Representing:** County of Monmouth

**Email and Phone:** mmurnane@mcsnj.org / 732-431-7400 x5798

**Legal and Regulatory Capability - 2009 Plan**

Table 4-1 Jurisdictional Legal and Regulatory Capabilities													
Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Monmouth County			X	√		√	√	√	X	√			
Aberdeen Township		√	√	√		√	√	√	√	√	√	√	
Allenhurst Borough	√	√	√			√	√	√	√	√			√
Allentown Borough	√	√	√	√		√		√	√	√			
City of Asbury Park	√	√	√	√		√	√	√	√	√	√		√
Atlantic Highlands Borough	√	√	√	√	√	√	√	√	√	√	√		
Avon-by-the-Sea Borough		√	√	√	√	√	√	√		√	√		√
Belmar Borough		√	√	√		√	√	√	√	√	√	√	√
Bradley Beach Borough	√	√	√	√		√	√	√		√	√	√	
Brielle Borough	√	√	√	√		√	√	√		√			√
Colts Neck Township		√	√	√		√	√	√	√	√	√	√	√
Deal Borough	√	√	√	√		√	√	√		√	√	√	
Eatontown Borough	√	√	√	√		√	√	√	√	√	√		
Englishtown Borough													
Fair Haven Borough		√	√	√		√		√		√			
Farmingdale Borough	√	√	√	√	√	√	√			√	√		√
Freehold Borough	√	√	√	√		√	√	√		√	√		√
Freehold Township		√	√	√		√	√	√	√	√		√	√
Hazlet Township	√	√	√	√		√	√	√	√	√			√
Highlands Borough	√	√	√	√		√	√	√	√	√			
Holmdel Township		√	√	√		√	√	√	√	√	√	√	√
Howell Township	√	√	√	√	√	√	√	√	√	√	√		√
Interlaken Borough	√	√	√	√	√	√	√		√	√	√		√
Keansburg Borough	√	√	√	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√	√	√	√	√	√	√	√
Lake Como Borough		√	√	√		√	√	√	√	√	√	√	
Little Silver Borough		√	√	√	√	√	√		√	√		√	√
Loch Arbour Village													
City of Long Branch		√	√	√		√	√	√	√	√			√
Manalapan Township	√	√	√	√	√	√	√	√		√	√	√	√
Manasquan Borough	√	√	√	√		√	√	√		√	√	√	√

**Administrative and Technical Capacity - 2009 Plan**

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√
Loch Arbour Village										
City of Long Branch	√	√		√	√	√			√	√
Manalapan Township	√	√	√	√		√			√	
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√

**Fiscal Capability - 2009 Plan**

<b>Table 4-3 Jurisdictional Fiscal Capabilities</b>										
<b>Jurisdiction</b>	<b>Community Development Block Grants (CDBG)</b>	<b>Capital Improvements Project Funding</b>	<b>Authority to Levy Taxes for Specific Purposes</b>	<b>Fees for Water, Sewer, Gas, or Electric Service</b>	<b>Impact Fees for Homebuyers or Developers for New Developments/Homes</b>	<b>Incur Debt through General Obligation Funds</b>	<b>Incur Debt through Special Tax and Revenue Bonds</b>	<b>Incur Debt through Private Activity Bonds</b>	<b>Withhold Spending in Hazard-Prone Areas</b>	<b>Other</b>
Monmouth County	√	√	√		√	√	√			
Aberdeen Township	√	√	√	√	√	√	√	√	√	√
Allenhurst Borough	√	√	√	√	√	√	√			
Allentown Borough	√	√	√	√		√				
City of Asbury Park	√	√	√	√	√	√	√	√	√	
Atlantic Highlands Borough	√	√	√	√	√	√	√		√	
Avon-by-the-Sea Borough	√	√	√	√		√	√		√	
Belmar Borough	√	√	√	√	√	√	√			
Bradley Beach Borough	√	√	√	√		√	√			
Brielle Borough	√	√	√	√	√	√	√			
Colts Neck Township		√	√		√	√	√		√	
Deal Borough	√	√	√	√		√	√			
Eatontown Borough	√	√	√	√	√	√	√			
Englishtown Borough										
Fair Haven Borough	√	√					√			
Farmingdale Borough	√	√	√	√		√	√			
Freehold Borough	√	√	√	√		√	√	√		
Freehold Township	√	√	√	√	√	√				
Hazlet Township	√	√	√		√	√				
Highlands Borough	√	√		√	√					
Holmdel Township		√	√	√	√	√				
Howell Township	√	√	√	√		√	√			
Interlaken Borough		√	√	√		√	√			
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√				
Lake Como Borough	√	√		√		√				
Little Silver Borough		√				√				
Loch Arbour Village										
City of Long Branch	√	√			√	√				
Manalapan Township	√	√	√			√	√			

<b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b>
moderate	high	moderate	high	moderate
<b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b>				
<p>Engage county officials in the planning process and in identification of actions and goals.</p>				



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update  
Capability Assessment Update**

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)
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Then, review and answer the supplemental questions on Page 7. Check box C.

- C) I have completed responses to the supplemental questions on Attachment Page 7.

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** Timothy W. Gillen, PE  
**Title:** Township Engineer  
**Representing:** Township of Aberdeen  
**Email and Phone:** TGillen@CMEUSA1.com

① Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?	② Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?	③ Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?	④ Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?	⑤ Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?
High	High	Moderate	High	Moderate

Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.

- ① TOWNSHIP IS CURRENTLY REVIEWING ITS ORDINANCES TO ADDRESS FEMA ELEVATIONS AND TO LIMIT POTENTIAL FOR DEVELOPMENT IN FLOOD PRONE AREAS
- ②④ TOWNSHIP RETAINS ENGINEERS AND PLANNERS WHO ARE TRAINED TO ADDRESS FLOOD IMPACTED INFRASTRUCTURE AND BUILDINGS SO AS TO MINIMIZE FUTURE DAMAGES.
- ③ FURTHER, THE TOWNSHIP HAS AND WILL PURSUE ANY AND ALL GRANTS TO MINIMIZE ADVERSE BUDGETARY IMPACTS.
- ⑤ THE TOWNSHIP'S ADMINISTRATION AND POLITICAL LEADERSHIP RECOGNIZE THE VULNERABILITIES ASSOCIATED WITH DEVELOPMENT IN IDENTIFIED HAZARD AREAS AND HAVE ALREADY ADOPTED RESTRICTIVE ORDINANCES AND ARE PURSUING PLANNING GRANTS TO FURTHER MODIFY SAID ORDINANCES AS NECESSARY TO MINIMIZE FUTURE DEVELOPMENT.

10/11/13

Timothy W. Gillen P.E.  
OFFICE OF THE TOWNSHIP ENGINEER



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

Name: Robert Richter

Representing: Allenhurst Borough

Title: Chief of Police

Email  
Phone: copnj1301@yahoo.com

ALLENHURST

**Legal and Regulatory Capability - 2009 Plan**

**Table 4-1  
Jurisdictional Legal and Regulatory Capabilities**

Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Monmouth County				✓		✓	✓	✓		✓			
Aberdeen Township		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
Allenhurst Borough	✓	✓	✓			✓	✓	✓	✓	✓			✓
Allentown Borough	✓	✓	✓	✓		✓		✓	✓	✓			
City of Asbury Park	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓
Atlantic Highlands Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
Avon-by-the-Sea Borough		✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
Belmar Borough		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
Bradley Beach Borough	✓	✓	✓	✓		✓	✓	✓		✓		✓	✓
Brielle Borough	✓	✓	✓	✓		✓	✓	✓		✓		✓	✓
Colts Neck Township		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
Deal Borough	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		
Eatontown Borough	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		
Englishtown Borough													
Fair Haven Borough		✓	✓	✓		✓		✓		✓			
Farmingdale Borough	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓
Freehold Borough	✓	✓	✓	✓		✓	✓	✓		✓	✓		✓
Freehold Township		✓	✓	✓		✓	✓	✓	✓	✓		✓	✓
Hazlet Township	✓	✓	✓	✓		✓	✓	✓	✓	✓			✓
Highlands Borough	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
Holmdel Township		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
Howell Township	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
Interlaken Borough	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓
Keansburg Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Keyport Borough		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓

ALLENHURST

**Administrative and Technical Capacity - 2009 Plan**

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land-development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	✓	✓	✓		✓	✓	✓		✓	✓
Aberdeen Township	✓	✓	✓	✓	✓	✓	✓		✓	
Allenhurst Borough	✓	✓	✓		✓	✓			✓	✓
Allentown Borough		✓	✓						✓	✓
City of Asbury Park	✓	✓	✓	✓	✓	✓	✓		✓	✓
Atlantic Highlands Borough	✓	✓	✓		✓	✓	✓		✓	✓
Avon-by-the-Sea Borough	✓	✓	✓	✓	✓	✓		✓	✓	✓
Belmar Borough	✓	✓	✓		✓	✓			✓	
Bradley Beach Borough	✓	✓		✓		✓			✓	✓
Brielle Borough	✓	✓	✓	✓	✓				✓	
Colts Neck Township	✓	✓	✓						✓	✓
Deal Borough	✓	✓			✓				✓	
Eatontown Borough	✓	✓	✓		✓	✓	✓			
Englishtown Borough									✓	✓
Fair Haven Borough	✓	✓							✓	
Farmingdale Borough	✓					✓			✓	✓
Freehold Borough		✓				✓			✓	
Freehold Township	✓	✓	✓		✓	✓	✓	✓	✓	
Hazlet Township	✓	✓	✓			✓			✓	
Highlands Borough	✓	✓	✓			✓	✓		✓	
Holmdel Township	✓	✓	✓	✓	✓	✓		✓	✓	✓
Howell Township	✓	✓	✓	✓		✓	✓		✓	
Interlaken Borough		✓							✓	
Keansburg Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Keyport Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Lake Como Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Little Silver Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

ALLENHURST

**Fiscal Capability - 2009 Plan**

**Table 4-3  
Jurisdictional Fiscal Capabilities**

Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Monmouth County	✓	✓	✓		✓	✓	✓	✓	✓	✓
Aberdeen Township	✓	✓	✓	✓	✓	✓	✓			
Allenhurst Borough	✓	✓	✓	✓	✓	✓	✓			
Allentown Borough	✓	✓	✓	✓	✓	✓		✓	✓	
City of Asbury Park	✓	✓	✓	✓	✓	✓	✓		✓	
Atlantic Highlands Borough	✓	✓	✓	✓	✓	✓	✓			
Avon-by-the-Sea Borough	✓	✓	✓	✓		✓	✓		✓	
Belmar Borough	✓	✓	✓	✓	✓	✓	✓			
Bradley Beach Borough	✓	✓	✓	✓		✓	✓			
Brielle Borough	✓	✓	✓	✓	✓	✓	✓		✓	
Colts Neck Township		✓	✓		✓	✓	✓			
Deal Borough	✓	✓	✓	✓	✓	✓	✓			
Eatontown Borough	✓	✓	✓	✓	✓	✓	✓			
Englishtown Borough							✓			
Fair Haven Borough	✓	✓				✓	✓			
Farmingdale Borough	✓	✓	✓	✓		✓	✓	✓		
Freehold Borough	✓	✓	✓	✓		✓	✓			
Freehold Township	✓	✓	✓	✓	✓	✓				
Hazlet Township	✓	✓	✓		✓	✓				
Highlands Borough	✓	✓		✓	✓	✓				
Holmdel Township		✓	✓	✓	✓		✓			
Howell Township	✓	✓	✓	✓		✓	✓			
Interlaken Borough		✓	✓	✓		✓	✓			
Keansburg Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Keyport Borough		✓	✓	✓		✓				

Municipality Allenhurst

Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your community's <u>overall technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your community's <u>overall fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your community's <u>overall administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?
Moderate	High	Moderate	High	High
Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.				

Hurricane Sandy pointed out that our "on beach" structures were vulnerable. They were elevated and were made portable. A large front end loader was bought to remove these large structures. As the town is 17 feet above sea level and the homes were very sound we found no problems in building requirements. As for gaps, there really weren't any major deficiencies and we found that the Borough was up to the task. As mentioned in another document we did create a specific storm annex in our OEM basic plan.



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Capability Assessment Update*

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Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

**A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**

**B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

\_\_\_\_\_

\_\_\_\_\_

**Then, review and answer the supplemental questions on Page 7. Check box C.**

**C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** \_\_\_\_\_ Daniel Panckeri \_\_\_\_\_

**Title:** \_\_\_\_\_ Deputy OEM \_\_\_\_\_

**Representing:** \_\_\_\_\_ Allentown Borough \_\_\_\_\_

**Email and Phone:** \_\_\_\_\_

## Legal and Regulatory Capability - 2009 Plan

**Table 4-1  
Jurisdictional Legal and Regulatory Capabilities**

Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Monmouth County				√		√	√	√		√			
Aberdeen Township		√	√	√		√	√	√	√	√	√	√	
Allenhurst Borough	√	√	√			√	√	√	√	√			√
Allentown Borough	√	√	√	√		√		√	√	√			
City of Asbury Park	√	√	√	√		√	√	√	√	√	√		√
Atlantic Highlands Borough	√	√	√	√	√	√	√	√	√	√	√		
Avon-by-the-Sea Borough		√	√	√	√	√	√	√		√	√		√
Belmar Borough		√	√	√		√	√	√	√	√	√	√	√
Bradley Beach Borough	√	√	√	√		√	√	√		√	√	√	
Brielle Borough	√	√	√	√		√	√	√		√			√
Colts Neck Township		√	√	√		√	√	√	√	√	√	√	√
Deal Borough	√	√	√	√		√	√	√		√	√	√	
Eatontown Borough	√	√	√	√		√	√	√	√	√	√		
Englishtown Borough													
Fair Haven Borough		√	√	√		√		√		√			
Farmingdale Borough	√	√	√	√	√	√	√			√	√		√
Freehold Borough	√	√	√	√		√	√	√		√	√		√
Freehold Township		√	√	√		√	√	√	√	√		√	√
Hazlet Township	√	√	√	√		√	√	√	√	√			√
Highlands Borough	√	√	√	√		√	√	√	√	√			
Holmdel Township		√	√	√		√	√	√	√	√	√	√	√
Howell Township	√	√	√	√	√	√	√	√	√	√	√		√
Interlaken Borough	√	√	√	√	√	√	√		√	√	√		√
Keansburg Borough	√	√	√	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√	√	√	√	√	√	√	√
Lake Como Borough		√	√	√		√	√	√	√	√	√	√	
Little Silver Borough		√	√	√	√	√	√		√	√		√	√
Loch Arbour Village													
City of Long Branch		√	√	√		√	√	√	√	√			√
Manalapan Township	√	√	√	√	√	√	√	√		√	√	√	√
Manasquan Borough	√	√	√	√		√	√	√		√	√	√	√

**Administrative and Technical Capacity - 2009 Plan**

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√
Loch Arbour Village										
City of Long Branch	√	√		√	√	√			√	√
Manalapan Township	√	√	√	√		√			√	
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√

**Fiscal Capability - 2009 Plan**

Table 4-3 Jurisdictional Fiscal Capabilities										
Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Monmouth County	√	√	√		√	√	√			
Aberdeen Township	√	√	√	√	√	√	√	√	√	√
Allenhurst Borough	√	√	√	√	√	√	√			
Allentown Borough	√	√	√	√		√				
City of Asbury Park	√	√	√	√	√	√	√	√	√	
Atlantic Highlands Borough	√	√	√	√	√	√	√		√	
Avon-by-the-Sea Borough	√	√	√	√		√	√		√	
Belmar Borough	√	√	√	√	√	√	√			
Bradley Beach Borough	√	√	√	√		√	√			
Brielle Borough	√	√	√	√	√	√	√			
Colts Neck Township		√	√		√	√	√		√	
Deal Borough	√	√	√	√		√	√			
Eatontown Borough	√	√	√	√	√	√	√			
Englishtown Borough										
Fair Haven Borough	√	√					√			
Farmingdale Borough	√	√	√	√		√	√			
Freehold Borough	√	√	√	√		√	√	√		
Freehold Township	√	√	√	√	√	√				
Hazlet Township	√	√	√		√	√				
Highlands Borough	√	√		√	√					
Holmdel Township		√	√	√	√	√				
Howell Township	√	√	√	√		√	√			
Interlaken Borough		√	√	√		√	√			
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√				
Lake Como Borough	√	√		√		√				
Little Silver Borough		√				√				
Loch Arbour Village										
City of Long Branch	√	√			√	√				
Manalapan Township	√	√	√			√	√			

<p><b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b></p>
<p>high</p>	<p>high</p>	<p>low</p>	<p>high</p>	<p>high</p>

**Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.**

**Our community has an active and experienced group of political leaders. They delegate much of their technical work to outside agencies both public and private. When a problem is revealed it's correctly aggressively.**



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** Joe Cunha

**Title:** City Engineer / DPW Director

**Representing:** City of Asbury Park

**Email and Phone:** [joe.cunha@cityofasburypark.com](mailto:joe.cunha@cityofasburypark.com) 732-775-0900

**Legal and Regulatory Capability - 2009 Plan**

Table 4-1 Jurisdictional Legal and Regulatory Capabilities													
Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Monmouth County				√		√	√	√		√			
Aberdeen Township		√	√	√		√	√	√	√	√	√	√	
Allenhurst Borough	√	√	√			√	√	√	√	√			√
Allentown Borough	√	√	√	√		√		√	√	√			
City of Asbury Park	√	√	√	√		√	√	√	√	√	√		√
Atlantic Highlands Borough	√	√	√	√	√	√	√	√	√	√	√		
Avon-by-the-Sea Borough		√	√	√	√	√	√	√		√	√		√
Belmar Borough		√	√	√		√	√	√	√	√	√	√	√
Bradley Beach Borough	√	√	√	√		√	√	√		√	√	√	
Brielle Borough	√	√	√	√		√	√	√		√			√
Colts Neck Township		√	√	√		√	√	√	√	√	√	√	√
Deal Borough	√	√	√	√		√	√	√		√	√	√	
Eatontown Borough	√	√	√	√		√	√	√	√	√	√		
Englishtown Borough													
Fair Haven Borough		√	√	√		√		√		√			
Farmingdale Borough	√	√	√	√	√	√	√			√	√		√
Freehold Borough	√	√	√	√		√	√	√		√	√		√
Freehold Township		√	√	√		√	√	√	√	√		√	√
Hazlet Township	√	√	√	√		√	√	√	√	√			√
Highlands Borough	√	√	√	√		√	√	√	√	√			
Holmdel Township		√	√	√		√	√	√	√	√	√	√	√
Howell Township	√	√	√	√	√	√	√	√	√	√	√		√
Interlaken Borough	√	√	√	√	√	√	√		√	√	√		√
Keansburg Borough	√	√	√	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√	√	√	√	√	√	√	√
Lake Como Borough		√	√	√		√	√	√	√	√	√	√	
Little Silver Borough		√	√	√	√	√	√		√	√		√	√
Loch Arbour Village													
City of Long Branch		√	√	√		√	√	√	√	√			√
Manalapan Township	√	√	√	√	√	√	√	√		√	√	√	√
Manasquan Borough	√	√	√	√		√	√	√		√	√	√	√

**Administrative and Technical Capacity - 2009 Plan**

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√
Loch Arbour Village										
City of Long Branch	√	√		√	√	√			√	√
Manalapan Township	√	√	√	√		√			√	
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√

**Fiscal Capability - 2009 Plan**

Table 4-3 Jurisdictional Fiscal Capabilities										
Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Monmouth County	√	√	√		√	√	√			
Aberdeen Township	√	√	√	√	√	√	√	√	√	√
Allenhurst Borough	√	√	√	√	√	√	√			
Allentown Borough	√	√	√	√		√				
City of Asbury Park	√	√	√	√	√	√	√	√	√	
Atlantic Highlands Borough	√	√	√	√	√	√	√		√	
Avon-by-the-Sea Borough	√	√	√	√		√	√		√	
Belmar Borough	√	√	√	√	√	√	√			
Bradley Beach Borough	√	√	√	√		√	√			
Brielle Borough	√	√	√	√	√	√	√			
Colts Neck Township		√	√		√	√	√		√	
Deal Borough	√	√	√	√		√	√			
Eatontown Borough	√	√	√	√	√	√	√			
Englishtown Borough										
Fair Haven Borough	√	√					√			
Farmingdale Borough	√	√	√	√		√	√			
Freehold Borough	√	√	√	√		√	√	√		
Freehold Township	√	√	√	√	√	√				
Hazlet Township	√	√	√		√	√				
Highlands Borough	√	√		√	√					
Holmdel Township		√	√	√	√	√				
Howell Township	√	√	√	√		√	√			
Interlaken Borough		√	√	√		√	√			
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√				
Lake Como Borough	√	√		√		√				
Little Silver Borough		√				√				
Loch Arbour Village										
City of Long Branch	√	√			√	√				
Manalapan Township	√	√	√			√	√			

<b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b>
High	High	Low	High	Moderate
<b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b>				
<p>The City will be conducting an election of its governing members for the next four years on May 14, 2013. All five members of the City Council will be elected on said date. Noted above is the current political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in our community. This is subject to change drastically.</p> <p>Unfortunately due to severe annual budget constraints and receipt of Transitional Aid from the State of New Jersey, we are severely limited in our overall fiscal capability to implement hazard mitigation strategies.</p>				



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)
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- \_\_\_\_\_
- \_\_\_\_\_

**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

Name: ADAM HUBENY

Title: BOROUGH ADMINISTRATOR / OEM COORDINATOR

Representing: BOROUGH OF ATLANTIC HIGHLANDS

Email and Phone: AHUBENY@AHNJ.COM 732-291-1444  
x3101

**Administrative and Technical Capacity - 2009 Plan**

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√	✓	√	√	√	✓	√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√
Loch Arbour Village										
City of Long Branch	√	√		√	√	√			√	√
Manalapan Township	√	√	√	√		√			√	
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√

Municipality: Atlantic Highlands Borough

<p>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</p>
<p>Moderate</p>	<p>Moderate</p>	<p>Moderate</p>	<p>Moderate</p>	<p>Moderate</p>
<p>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</p> <ul style="list-style-type: none"> <li>➤ Public Education</li> <li>➤ Communications with all concerned via web site, newsletter, sign board etc</li> <li>➤ Discussion at Mayor and Council Meetings</li> <li>➤ Appoint Committee to listen &amp; recommend a course of action to help recognize issues and bring them forward</li> <li>➤ Develop a 5 year plan and keep updated</li> </ul>				

\*\* In addition, add check marks to table 4-2 under "Floodplain Manager" and "Scientists Familiar with the Hazard of the Community"



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

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- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name: \_\_Kenneth Child\_\_**

**Title: \_Emergency Management Coordinator**

**Representing: \_\_Avon By The Sea**

**Email and Phone: \_ken child@optonline.net 732-904-6186**

**Legal and Regulatory Capability - 2009 Plan**

Table 4-1 Jurisdictional Legal and Regulatory Capabilities													
Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Monmouth County				√		√	√	√		√			
Aberdeen Township		√	√	√		√	√	√	√	√	√	√	
Allenhurst Borough	√	√	√			√	√	√	√	√			√
Allentown Borough	√	√	√	√		√		√	√	√			
City of Asbury Park	√	√	√	√		√	√	√	√	√	√		√
Atlantic Highlands Borough	√	√	√	√	√	√	√	√	√	√	√		
Avon-by-the-Sea Borough		√	√	√	√	√	√	√		√	√		√
Belmar Borough		√	√	√		√	√	√	√	√	√	√	√
Bradley Beach Borough	√	√	√	√		√	√	√		√	√	√	
Brielle Borough	√	√	√	√		√	√	√		√			√
Colts Neck Township		√	√	√		√	√	√	√	√	√	√	√
Deal Borough	√	√	√	√		√	√	√		√	√	√	
Eatontown Borough	√	√	√	√		√	√	√	√	√	√		
Englishtown Borough													
Fair Haven Borough		√	√	√		√		√		√			
Farmingdale Borough	√	√	√	√	√	√	√			√	√		√
Freehold Borough	√	√	√	√		√	√	√		√	√		√
Freehold Township		√	√	√		√	√	√	√	√		√	√
Hazlet Township	√	√	√	√		√	√	√	√	√			√
Highlands Borough	√	√	√	√		√	√	√	√	√			
Holmdel Township		√	√	√		√	√	√	√	√	√	√	√
Howell Township	√	√	√	√	√	√	√	√	√	√	√		√
Interlaken Borough	√	√	√	√	√	√	√		√	√	√		√
Keansburg Borough	√	√	√	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√	√	√	√	√	√	√	√
Lake Como Borough		√	√	√		√	√	√	√	√	√	√	
Little Silver Borough		√	√	√	√	√	√		√	√		√	√
Loch Arbour Village													
City of Long Branch		√	√	√		√	√	√	√	√			√
Manalapan Township	√	√	√	√	√	√	√	√		√	√	√	√
Manasquan Borough	√	√	√	√		√	√	√		√	√	√	√

**Administrative and Technical Capacity - 2009 Plan**

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√
Loch Arbour Village										
City of Long Branch	√	√		√	√	√			√	√
Manalapan Township	√	√	√	√		√			√	
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√

**Fiscal Capability - 2009 Plan**

Table 4-3 Jurisdictional Fiscal Capabilities										
Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Monmouth County	√	√	√		√	√	√			
Aberdeen Township	√	√	√	√	√	√	√	√	√	√
Allenhurst Borough	√	√	√	√	√	√	√			
Allentown Borough	√	√	√	√		√				
City of Asbury Park	√	√	√	√	√	√	√	√	√	
Atlantic Highlands Borough	√	√	√	√	√	√	√		√	
Avon-by-the-Sea Borough	√	√	√	√		√	√		√	
Belmar Borough	√	√	√	√	√	√	√			
Bradley Beach Borough	√	√	√	√		√	√			
Brielle Borough	√	√	√	√	√	√	√			
Colts Neck Township		√	√		√	√	√		√	
Deal Borough	√	√	√	√		√	√			
Eatontown Borough	√	√	√	√	√	√	√			
Englishtown Borough										
Fair Haven Borough	√	√					√			
Farmingdale Borough	√	√	√	√		√	√			
Freehold Borough	√	√	√	√		√	√	√		
Freehold Township	√	√	√	√	√	√				
Hazlet Township	√	√	√		√	√				
Highlands Borough	√	√		√	√					
Holmdel Township		√	√	√	√	√				
Howell Township	√	√	√	√		√	√			
Interlaken Borough		√	√	√		√	√			
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√				
Lake Como Borough	√	√		√		√				
Little Silver Borough		√				√				
Loch Arbour Village										
City of Long Branch	√	√			√	√				
Manalapan Township	√	√	√			√	√			

<p><b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b></p>
Moderate	Moderate	Moderate	Moderate	Moderate

**Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.**

**Improved management of our floodplain is a high priority as the impacts of recent flooding from Sandy highlighted and area where additional expertise is needed**



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Capability Assessment Update

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**Name: Colleen Connolly**

**Title: Business Administrator**

**Representing: Borough of Belmar**

**Email and Phone: [cconnolly@boro.belmar.nj.us](mailto:cconnolly@boro.belmar.nj.us)**

**Legal and Regulatory Capability - 2009 Plan**

Table 4-1 Jurisdictional Legal and Regulatory Capabilities													
Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Monmouth County				√		√	√	√		√			
Aberdeen Township		√	√	√		√	√	√	√	√	√	√	
Allenhurst Borough	√	√	√			√	√	√	√	√			√
Allentown Borough	√	√	√	√		√		√	√	√			
City of Asbury Park	√	√	√	√		√	√	√	√	√	√		√
Atlantic Highlands Borough	√	√	√	√	√	√	√	√	√	√	√		
Avon-by-the-Sea Borough		√	√	√	√	√	√	√		√	√		√
Belmar Borough		√	√	√		√	√	√	√	√	√	√	√
Bradley Beach Borough	√	√	√	√		√	√	√		√	√	√	
Brielle Borough	√	√	√	√		√	√	√		√			√
Colts Neck Township		√	√	√		√	√	√	√	√	√	√	√
Deal Borough	√	√	√	√		√	√	√		√	√	√	
Eatontown Borough	√	√	√	√		√	√	√	√	√	√		
Englishtown Borough													
Fair Haven Borough		√	√	√		√		√		√			
Farmingdale Borough	√	√	√	√	√	√	√			√	√		√
Freehold Borough	√	√	√	√		√	√	√		√	√		√
Freehold Township		√	√	√		√	√	√	√	√		√	√
Hazlet Township	√	√	√	√		√	√	√	√	√			√
Highlands Borough	√	√	√	√		√	√	√	√	√			
Holmdel Township		√	√	√		√	√	√	√	√	√	√	√
Howell Township	√	√	√	√	√	√	√	√	√	√	√		√
Interlaken Borough	√	√	√	√	√	√	√		√	√	√		√
Keansburg Borough	√	√	√	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√	√	√	√	√	√	√	√
Lake Como Borough		√	√	√		√	√	√	√	√	√	√	
Little Silver Borough		√	√	√	√	√	√		√	√		√	√
Loch Arbour Village													
City of Long Branch		√	√	√		√	√	√	√	√			√
Manalapan Township	√	√	√	√	√	√	√	√		√	√	√	√
Manasquan Borough	√	√	√	√		√	√	√		√	√	√	√

**Administrative and Technical Capacity - 2009 Plan**

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√	√	√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√
Loch Arbour Village										
City of Long Branch	√	√		√	√	√			√	√
Manalapan Township	√	√	√	√		√			√	
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√

**Fiscal Capability - 2009 Plan**

Table 4-3 Jurisdictional Fiscal Capabilities										
Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Monmouth County	√	√	√		√	√	√			
Aberdeen Township	√	√	√	√	√	√	√	√	√	√
Allenhurst Borough	√	√	√	√	√	√	√			
Allentown Borough	√	√	√	√		√				
City of Asbury Park	√	√	√	√	√	√	√	√	√	
Atlantic Highlands Borough	√	√	√	√	√	√	√		√	
Avon-by-the-Sea Borough	√	√	√	√		√	√		√	
Belmar Borough	√	√	√	√	√	√	√			
Bradley Beach Borough	√	√	√	√		√	√			
Brielle Borough	√	√	√	√	√	√	√			
Colts Neck Township		√	√		√	√	√		√	
Deal Borough	√	√	√	√		√	√			
Eatontown Borough	√	√	√	√	√	√	√			
Englishtown Borough										
Fair Haven Borough	√	√					√			
Farmingdale Borough	√	√	√	√		√	√			
Freehold Borough	√	√	√	√		√	√	√		
Freehold Township	√	√	√	√	√	√				
Hazlet Township	√	√	√		√	√				
Highlands Borough	√	√		√	√					
Holmdel Township		√	√	√	√	√				
Howell Township	√	√	√	√		√	√			
Interlaken Borough		√	√	√		√	√			
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√				
Lake Como Borough	√	√		√		√				
Little Silver Borough		√				√				
Loch Arbour Village										
City of Long Branch	√	√			√	√				
Manalapan Township	√	√	√			√	√			

<b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b>
High	High	High	High	High
<b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b>				
<p>The Borough of Belmar continues to pursue grant funding at the State and Federal level to implement hazard mitigation projects. Our ongoing partnerships with FEMA, Army Corps of Engineers, NJDEP, NJDOT and Monmouth County are vital to obtaining the resources needed to implement our mitigation projects.</p>				



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
**Capability Assessment Update**

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**
- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name: NormanGoldfarb**

**Title: FirstDeputyCoordinator/OEM/Councilman**

BRADLEY BEACH

**Legal and Regulatory Capability - 2009 Plan**

Table 4-1 Jurisdictional Legal and Regulatory Capabilities													
Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Monmouth County				√		√	√	√		√			
Aberdeen Township		√	√	√		√	√	√	√	√	√	√	
Allenhurst Borough	√	√	√			√	√	√	√	√			√
Allentown Borough	√	√	√	√		√		√	√	√			
City of Asbury Park	√	√	√	√		√	√	√	√	√	√		√
Atlantic Highlands Borough	√	√	√	√	√	√	√	√	√	√	√		
Avon-by-the-Sea Borough		√	√	√	√	√	√	√		√	√		√
Belmar Borough		√	√	√		√	√	√	√	√	√	√	√
Bradley Beach Borough	√	√	√			√	√	√		√	√	√	
Brielle Borough	√	√	√	√		√	√	√		√			√
Colts Neck Township		√	√	√		√	√	√	√	√	√	√	√
Deal Borough	√	√	√	√		√	√	√		√	√	√	
Eatontown Borough	√	√	√	√		√	√	√	√	√	√		
Englishtown Borough													
Fair Haven Borough		√	√	√		√		√		√			
Farmingdale Borough	√	√	√	√	√	√	√			√	√		√
Freehold Borough	√	√	√	√		√	√	√		√	√		√
Freehold Township		√	√	√		√	√	√	√	√		√	√
Hazlet Township	√	√	√	√		√	√	√	√	√			√
Highlands Borough	√	√	√	√		√	√	√	√	√			
Holmdel Township		√	√	√		√	√	√	√	√	√	√	√
Howell Township	√	√	√	√	√	√	√	√	√	√	√		√
Interlaken Borough	√	√	√	√	√	√	√		√	√	√		√
Keansburg Borough	√	√	√	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√	√	√	√	√	√	√	√
Lake Como Borough		√	√	√		√	√	√	√	√	√	√	
Little Silver Borough		√	√	√	√	√	√		√	√		√	√

**Administrative and Technical Capacity - 2009 Plan**

<b>Jurisdiction</b>	<b>Planner(s) or Engineer(s) with knowledge of land development and management practices</b>	<b>Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure</b>	<b>Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards</b>	<b>Floodplain manager</b>	<b>Surveyors</b>	<b>Staff with education or expertise to assess the community's vulnerability to hazards</b>	<b>Personnel skilled in GIS and/or HAZUS</b>	<b>Scientists familiar with the hazards of the community</b>	<b>Emergency Manager</b>	<b>Grant Writers</b>
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√	x		√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√
Loch Arbour Village										

**Fiscal Capability - 2009 Plan**

<b>Table 4-3 Jurisdictional Fiscal Capabilities</b>										
<b>Jurisdiction</b>	<b>Community Development Block Grants (CDBG)</b>	<b>Capital Improvements Project Funding</b>	<b>Authority to Levy Taxes for Specific Purposes</b>	<b>Fees for Water, Sewer, Gas, or Electric Service</b>	<b>Impact Fees for Homebuyers or Developers for New Developments/Homes</b>	<b>Incur Debt through General Obligation Funds</b>	<b>Incur Debt through Special Tax and Revenue Bonds</b>	<b>Incur Debt through Private Activity Bonds</b>	<b>Withhold Spending in Hazard-Prone Areas</b>	<b>Other</b>
Monmouth County	√	√	√		√	√	√			
Aberdeen Township	√	√	√	√	√	√	√	√	√	√
Allenhurst Borough	√	√	√	√	√	√	√			
Allentown Borough	√	√	√	√		√				
City of Asbury Park	√	√	√	√	√	√	√	√	√	
Atlantic Highlands Borough	√	√	√	√	√	√	√		√	
Avon-by-the-Sea Borough	√	√	√	√		√	√		√	
Belmar Borough	√	√	√	√	√	√	√			
Bradley Beach Borough	√	√	√	√		√	√			
Brielle Borough	√	√	√	√	√	√	√			
Colts Neck Township		√	√		√	√	√		√	
Deal Borough	√	√	√	√		√	√			
Eatontown Borough	√	√	√	√	√	√	√			
Englishtown Borough										
Fair Haven Borough	√	√					√			
Farmingdale Borough	√	√	√	√		√	√			
Freehold Borough	√	√	√	√		√	√	√		
Freehold Township	√	√	√	√	√	√				
Hazlet Township	√	√	√		√	√				
Highlands Borough	√	√		√	√					
Holmdel Township		√	√	√	√	√				
Howell Township	√	√	√	√		√	√			
Interlaken Borough		√	√	√		√	√			
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√				
Lake Como Borough	√	√		√		√				
Little Silver Borough		√				√				

Municipality     Borough of Bradley Beach    

<b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b>
HIGH	MODERATE	LOW	HIGH	HIGH
<b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b>				
<p style="text-align: center;"><b><i>Secure funding in order to follow through with planned mitigation operations</i></b></p>				



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
**Capability Assessment Update**

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Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**
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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

Name: Alan P. Hilla,  
Jr.

Title: Borough Engineer

Representing: Borough Brielle of

Email \_\_\_\_\_ and  
 Phone: ahillajr@birdsall.com

**Legal and Regulatory Capability - 2009 Plan**

Table 4-1 Jurisdictional Legal and Regulatory Capabilities													
Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Monmouth County				√		√	√	√		√			
Aberdeen Township		√	√	√		√	√	√	√	√	√	√	
Allenhurst Borough	√	√	√			√	√	√	√	√			√
Allentown Borough	√	√	√	√		√		√	√	√			
City of Asbury Park	√	√	√	√		√	√	√	√	√	√		√
Atlantic Highlands Borough	√	√	√	√	√	√	√	√	√	√	√		
Avon-by-the-Sea Borough		√	√	√	√	√	√	√		√	√		√
Belmar Borough		√	√	√		√	√	√	√	√	√	√	√
Bradley Beach Borough	√	√	√	√		√	√	√		√	√	√	
Brielle Borough	√	√	√	√		√	√	√		√			√
Colts Neck Township		√	√	√		√	√	√	√	√	√	√	√
Deal Borough	√	√	√	√		√	√	√		√	√	√	
Eatontown Borough	√	√	√	√		√	√	√	√	√	√		
Englishtown Borough													
Fair Haven Borough		√	√	√		√		√		√			
Farmingdale Borough	√	√	√	√	√	√	√			√	√		√
Freehold Borough	√	√	√	√		√	√	√		√	√		√
Freehold Township		√	√	√		√	√	√	√	√		√	√
Hazlet Township	√	√	√	√		√	√	√	√	√			√
Highlands Borough	√	√	√	√		√	√	√	√	√			
Holmdel Township		√	√	√		√	√	√	√	√	√	√	√
Howell Township	√	√	√	√	√	√	√	√	√	√	√		√
Interlaken Borough	√	√	√	√	√	√	√		√	√	√		√
Keansburg Borough	√	√	√	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√	√	√	√	√	√	√	√

**Administrative and Technical Capacity - 2009 Plan**

Table 4-2 Jurisdictional Administrative and Technical Capabilities										
Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√

**Fiscal Capability - 2009 Plan**

Table 4-3 Jurisdictional Fiscal Capabilities										
Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Monmouth County	√	√	√		√	√	√			
Aberdeen Township	√	√	√	√	√	√	√	√	√	√
Allenhurst Borough	√	√	√	√	√	√	√			
Allentown Borough	√	√	√	√		√				
City of Asbury Park	√	√	√	√	√	√	√	√	√	
Atlantic Highlands Borough	√	√	√	√	√	√	√		√	
Avon-by-the-Sea Borough	√	√	√	√		√	√		√	
Belmar Borough	√	√	√	√	√	√	√			
Bradley Beach Borough	√	√	√	√		√	√			
Brielle Borough	√	√	√	√	√	√	√			
Colts Neck Township		√	√		√	√	√		√	
Deal Borough	√	√	√	√		√	√			
Eatontown Borough	√	√	√	√	√	√	√			
Englishtown Borough										
Fair Haven Borough	√	√					√			
Farmingdale Borough	√	√	√	√		√	√			
Freehold Borough	√	√	√	√		√	√	√		
Freehold Township	√	√	√	√	√	√				
Hazlet Township	√	√	√		√	√				
Highlands Borough	√	√		√	√					
Holmdel Township		√	√	√	√	√				
Howell Township	√	√	√	√		√	√			
Interlaken Borough		√	√	√		√	√			
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√				

<p>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</p>
<p>High</p>	<p>high</p>	<p>moderate</p>	<p>high</p>	<p>moderate</p>
<p><b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b></p>				
<p><b>Maximize familiarity and awareness of mitigation grant programs and other mitigation initiatives.</b></p> <p><b>Develop synergies of funding source to maximize the breadth and extent of mitigation projects and programs.</b></p> <p><b>Look to form regional or sub-regional partnerships to maximize the effectiveness</b></p> <p><b>Of partners expertise to the benefit of individual municipalities.</b></p>				



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

**A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**

**B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

**C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

Name: Chief Kevin Sauter

Title: OEM Coordinator

Representing: Colts Neck Township

Email and Phone: [ksauter@coltsneckpolice.com](mailto:ksauter@coltsneckpolice.com), 732-780-7323

**Legal and Regulatory Capability - 2009 Plan**

Table 4-1 Jurisdictional Legal and Regulatory Capabilities													
Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Monmouth County				√		√	√	√		√			
Aberdeen Township		√	√	√		√	√	√	√	√	√	√	
Allenhurst Borough	√	√	√			√	√	√	√	√			√
Allentown Borough	√	√	√	√		√		√	√	√			
City of Asbury Park	√	√	√	√		√	√	√	√	√	√		√
Atlantic Highlands Borough	√	√	√	√	√	√	√	√	√	√	√		
Avon-by-the-Sea Borough		√	√	√	√	√	√	√		√	√		√
Belmar Borough		√	√	√		√	√	√	√	√	√	√	√
Bradley Beach Borough	√	√	√	√		√	√	√		√	√	√	
Brielle Borough	√	√	√	√		√	√	√		√			√
Colts Neck Township	√	√	√	√		√	√	√	√	√	√	√	√
Deal Borough	√	√	√	√		√	√	√		√	√	√	
Eatontown Borough	√	√	√	√		√	√	√	√	√	√		
Englishtown Borough													
Fair Haven Borough		√	√	√		√		√		√			
Farmingdale Borough	√	√	√	√	√	√	√			√	√		√
Freehold Borough	√	√	√	√		√	√	√		√	√		√
Freehold Township		√	√	√		√	√	√	√	√		√	√
Hazlet Township	√	√	√	√		√	√	√	√	√			√
Highlands Borough	√	√	√	√		√	√	√	√	√			
Holmdel Township		√	√	√		√	√	√	√	√	√	√	√
Howell Township	√	√	√	√	√	√	√	√	√	√	√		√
Interlaken Borough	√	√	√	√	√	√	√		√	√	√		√
Keansburg Borough	√	√	√	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√	√	√	√	√	√	√	√
Lake Como Borough		√	√	√		√	√	√	√	√	√	√	
Little Silver Borough		√	√	√	√	√	√		√	√		√	√
Loch Arbour Village													
City of Long Branch		√	√	√		√	√	√	√	√			√
Manalapan Township	√	√	√	√	√	√	√	√		√	√	√	√
Manasquan Borough	√	√	√	√		√	√	√		√	√	√	√

## Administrative and Technical Capacity - 2009 Plan

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√	√					√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√
Loch Arbour Village										
City of Long Branch	√	√		√	√	√			√	√
Manalapan Township	√	√	√	√		√			√	
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√

**Fiscal Capability - 2009 Plan**

Table 4-3 Jurisdictional Fiscal Capabilities										
Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Monmouth County	√	√	√		√	√	√			
Aberdeen Township	√	√	√	√	√	√	√	√	√	√
Allenhurst Borough	√	√	√	√	√	√	√			
Allentown Borough	√	√	√	√		√				
City of Asbury Park	√	√	√	√	√	√	√	√	√	
Atlantic Highlands Borough	√	√	√	√	√	√	√		√	
Avon-by-the-Sea Borough	√	√	√	√		√	√		√	
Belmar Borough	√	√	√	√	√	√	√			
Bradley Beach Borough	√	√	√	√		√	√			
Brielle Borough	√	√	√	√	√	√	√			
Colts Neck Township		√	√		√	√	√		√	
Deal Borough	√	√	√	√		√	√			
Eatontown Borough	√	√	√	√	√	√	√			
Englishtown Borough										
Fair Haven Borough	√	√					√			
Farmingdale Borough	√	√	√	√		√	√			
Freehold Borough	√	√	√	√		√	√	√		
Freehold Township	√	√	√	√	√	√				
Hazlet Township	√	√	√		√	√				
Highlands Borough	√	√		√	√					
Holmdel Township		√	√	√	√	√				
Howell Township	√	√	√	√		√	√			
Interlaken Borough		√	√	√		√	√			
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√				
Lake Como Borough	√	√		√		√				
Little Silver Borough		√				√				
Loch Arbour Village										
City of Long Branch	√	√			√	√				
Manalapan Township	√	√	√			√	√			

<p>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</p>
<p><u>Moderate</u></p>	<p><u>Moderate</u></p>	<p><u>Low</u></p>	<p><u>Moderate</u></p>	<p><u>High</u></p>
<p>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</p>				
<p>Funding constraints are a big hurdle in implementing mitigation projects. Gaps in fiscal capabilities can be bridged by:</p> <ul style="list-style-type: none"> <li>• training Township staff to write grants</li> <li>• applying for more grants</li> <li>• working with local volunteer groups and organizations to obtain their assistance in obtaining donation funding</li> <li>• considering a nominal tax increase to set aside a fund specifically for mitigation projects</li> </ul>				



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Capability Assessment Update

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**Name** Earl Alexander

**Title:** Captain / Deputy OEM Coordinator

**Representing:** Borough of Deal

**Email and Phone:** 732-531-1113 / [ealexander@dealpolice.org](mailto:ealexander@dealpolice.org)

**Legal and Regulatory Capability - 2009 Plan**

Table 4-1 Jurisdictional Legal and Regulatory Capabilities													
Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Monmouth County				√		√	√	√		√			
Aberdeen Township		√	√	√		√	√	√	√	√	√	√	
Allenhurst Borough	√	√	√			√	√	√	√	√			√
Allentown Borough	√	√	√	√		√		√	√	√			
City of Asbury Park	√	√	√	√		√	√	√	√	√	√		√
Atlantic Highlands Borough	√	√	√	√	√	√	√	√	√	√	√		
Avon-by-the-Sea Borough		√	√	√	√	√	√	√		√	√		√
Belmar Borough		√	√	√		√	√	√	√	√	√	√	√
Bradley Beach Borough	√	√	√	√		√	√	√		√	√	√	
Brielle Borough	√	√	√	√		√	√	√		√			√
Colts Neck Township		√	√	√		√	√	√	√	√	√	√	√
Deal Borough	√	√	√	√		√	√	√		√	√	√	
Eatontown Borough	√	√	√	√		√	√	√	√	√	√		
Englishtown Borough													
Fair Haven Borough		√	√	√		√		√		√			
Farmingdale Borough	√	√	√	√	√	√	√			√	√		√
Freehold Borough	√	√	√	√		√	√	√		√	√		√
Freehold Township		√	√	√		√	√	√	√	√		√	√
Hazlet Township	√	√	√	√		√	√	√	√	√			√
Highlands Borough	√	√	√	√		√	√	√	√	√			
Holmdel Township		√	√	√		√	√	√	√	√	√	√	√
Howell Township	√	√	√	√	√	√	√	√	√	√	√		√
Interlaken Borough	√	√	√	√	√	√	√		√	√	√		√
Keansburg Borough	√	√	√	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√	√	√	√	√	√	√	√
Lake Como Borough		√	√	√		√	√	√	√	√	√	√	
Little Silver Borough		√	√	√	√	√	√		√	√		√	√
Loch Arbour Village													
City of Long Branch		√	√	√		√	√	√	√	√			√
Manalapan Township	√	√	√	√	√	√	√	√		√	√	√	√
Manasquan Borough	√	√	√	√		√	√	√		√	√	√	√

**Table 4-1 (continued)  
Jurisdictional Legal and Regulatory Capabilities**

<b>Jurisdiction</b>	<b>Building Code</b>	<b>Zoning Ordinance</b>	<b>Subdivision Ordinance</b>	<b>Special Purposes Ordinance</b>	<b>Growth Management Ordinance</b>	<b>Site Plan Review Requirements</b>	<b>Comprehensive Plan</b>	<b>Capital Improvements Plan</b>	<b>Economic Development Plan</b>	<b>Emergency Response Plan</b>	<b>Post-Disaster Recovery Plan</b>	<b>Post-Disaster Recovery Ordinance</b>	<b>Real Estate Disclosure Ordinance</b>
Marlboro Township		√	√	√	√	√	√	√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	√			
Middletown Township		√	√	√		√		√	√	√	√	√	√
Millstone Township		√	√	√		√	√	√	√	√	√	√	√
Monmouth Beach Borough	√	√	√	√		√		√		√	√		
Neptune Township	√	√	√	√	√	√	√	√	√	√			
Neptune City		√	√	√		√	√	√		√			
Ocean Township	√	√	√	√	√	√	√	√	√	√	√		√
Oceanport Borough	√	√	√	√	√	√	√	√	√	√	√		√
Red Bank Borough	√	√	√	√	√								
Roosevelt Borough													
Rumson Borough	√	√	√	√		√	√	√					
Sea Bright Borough		√	√	√		√	√			√	√		
Sea Girt Borough		√	√	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough	√	√	√	√		√	√	√	√	√	√	√	√
Shrewsbury Township													
Spring Lake Borough	√	√	√	√	√	√	√	√	√	√	√		
Spring Lake Heights Borough		√	√	√		√	√	√		√			
Tinton Falls Borough	√	√	√	√	√	√	√	√		√	√	√	
Union Beach Borough	√	√	√	√	√	√	√	√		√			
Upper Freehold Township	√	√	√	√	√	√	√	√	√	√	√	√	√
Wall Township		√	√	√	√	√	√	√	√	√	√	√	
West Long Branch Borough	√	√	√	√	√	√	√	√		√	√		√
Monmouth University										√			

**Administrative and Technical Capacity - 2009 Plan**

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√
Loch Arbour Village										
City of Long Branch	√	√		√	√	√			√	√
Manalapan Township	√	√	√	√		√			√	
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√

## Fiscal Capability - 2009 Plan

Table 4-3 Jurisdictional Fiscal Capabilities										
Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Monmouth County	√	√	√		√	√	√			
Aberdeen Township	√	√	√	√	√	√	√	√	√	√
Allenhurst Borough	√	√	√	√	√	√	√			
Allentown Borough	√	√	√	√		√				
City of Asbury Park	√	√	√	√	√	√	√	√	√	
Atlantic Highlands Borough	√	√	√	√	√	√	√		√	
Avon-by-the-Sea Borough	√	√	√	√		√	√		√	
Belmar Borough	√	√	√	√	√	√	√			
Bradley Beach Borough	√	√	√	√		√	√			
Brielle Borough	√	√	√	√	√	√	√			
Colts Neck Township		√	√		√	√	√		√	
Deal Borough	√	√	√	√		√	√			
Eatontown Borough	√	√	√	√	√	√	√			
Englishtown Borough										
Fair Haven Borough	√	√					√			
Farmingdale Borough	√	√	√	√		√	√			
Freehold Borough	√	√	√	√		√	√	√		
Freehold Township	√	√	√	√	√	√				
Hazlet Township	√	√	√		√	√				
Highlands Borough	√	√		√	√					
Holmdel Township		√	√	√	√	√				
Howell Township	√	√	√	√		√	√			
Interlaken Borough		√	√	√		√	√			
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√				
Lake Como Borough	√	√		√		√				
Little Silver Borough		√				√				
Loch Arbour Village										
City of Long Branch	√	√			√	√				
Manalapan Township	√	√	√			√	√			

<b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b>
Moderate	Moderate	Moderate	Low	High
<b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b>				
<p>Shared service agreements along with partnerships with regional and private firms increases our ability to meet the technical demands while keeping costs low.</p>				



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**
- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** William A Mego III

**Title:** Coordinator OEM

**Representing:** Borough of Eatontown

**Email and Phone:** wmego45@verizon.net 732-904-6950

**Legal and Regulatory Capability - 2009 Plan**

Table 4-1 Jurisdictional Legal and Regulatory Capabilities													
Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Monmouth County				√		√	√	√		√			
Aberdeen Township		√	√	√		√	√	√	√	√	√	√	
Allenhurst Borough	√	√	√			√	√	√	√	√			√
Allentown Borough	√	√	√	√		√		√	√	√			
City of Asbury Park	√	√	√	√		√	√	√	√	√	√		√
Atlantic Highlands Borough	√	√	√	√	√	√	√	√	√	√	√		
Avon-by-the-Sea Borough		√	√	√	√	√	√	√		√	√		√
Belmar Borough		√	√	√		√	√	√	√	√	√	√	√
Bradley Beach Borough	√	√	√	√		√	√	√		√	√	√	
Brielle Borough	√	√	√	√		√	√	√		√			√
Colts Neck Township		√	√	√		√	√	√	√	√	√	√	√
Deal Borough	√	√	√	√		√	√	√		√	√	√	
Eatontown Borough	√	√	√	√		√	√	√	√	√	√		
Englishtown Borough													
Fair Haven Borough		√	√	√		√		√		√			
Farmingdale Borough	√	√	√	√	√	√	√			√	√		√
Freehold Borough	√	√	√	√		√	√	√		√	√		√
Freehold Township		√	√	√		√	√	√	√	√		√	√
Hazlet Township	√	√	√	√		√	√	√	√	√			√
Highlands Borough	√	√	√	√		√	√	√	√	√			
Holmdel Township		√	√	√		√	√	√	√	√	√	√	√
Howell Township	√	√	√	√	√	√	√	√	√	√	√		√
Interlaken Borough	√	√	√	√	√	√	√		√	√	√		√
Keansburg Borough	√	√	√	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√	√	√	√	√	√	√	√
Lake Como Borough		√	√	√		√	√	√	√	√	√	√	
Little Silver Borough		√	√	√	√	√	√		√	√		√	√
Loch Arbour Village													
City of Long Branch		√	√	√		√	√	√	√	√			√

**Administrative and Technical Capacity - 2009 Plan**

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√
Loch Arbour Village										
City of Long Branch	√	√		√	√	√			√	√
Manalapan Township	√	√	√	√		√			√	

## Fiscal Capability - 2009 Plan

Table 4-3 Jurisdictional Fiscal Capabilities										
Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Monmouth County	√	√	√		√	√	√			
Aberdeen Township	√	√	√	√	√	√	√	√	√	√
Allenhurst Borough	√	√	√	√	√	√	√			
Allentown Borough	√	√	√	√		√				
City of Asbury Park	√	√	√	√	√	√	√	√	√	
Atlantic Highlands Borough	√	√	√	√	√	√	√		√	
Avon-by-the-Sea Borough	√	√	√	√		√	√		√	
Belmar Borough	√	√	√	√	√	√	√			
Bradley Beach Borough	√	√	√	√		√	√			
Brielle Borough	√	√	√	√	√	√	√			
Colts Neck Township		√	√		√	√	√		√	
Deal Borough	√	√	√	√		√	√			
Eatontown Borough	√	√	√	√	√	√	√			
Englishtown Borough										
Fair Haven Borough	√	√					√			
Farmingdale Borough	√	√	√	√		√	√			
Freehold Borough	√	√	√	√		√	√	√		
Freehold Township	√	√	√	√	√	√				
Hazlet Township	√	√	√		√	√				
Highlands Borough	√	√		√	√					
Holmdel Township		√	√	√	√	√				
Howell Township	√	√	√	√		√	√			
Interlaken Borough		√	√	√		√	√			
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√				
Lake Como Borough	√	√		√		√				
Little Silver Borough		√				√				
Loch Arbour Village										
City of Long Branch	√	√			√	√				





## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Capability Assessment Update*

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Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

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**Name: \_JOSEPH MCGOVERN**

**Title: POLICE LIEUTENANT/OEM**

**Representing: BOROUGH OF FAIR HAVEN**

**Email and Phone: 732-747-0241 X324 [JMCGOVERN@FHBORO.NET](mailto:JMCGOVERN@FHBORO.NET)**

**Table 4-1  
Jurisdictional Legal and Regulatory Capabilities**

Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Monmouth County				√		√	√	√		√			
Aberdeen Township		√	√	√		√	√	√	√	√	√	√	
Allenhurst Borough	√	√	√			√	√	√	√	√			√
Allentown Borough	√	√	√	√		√		√	√	√			
City of Asbury Park	√	√	√	√		√	√	√	√	√	√		√
Atlantic Highlands Borough	√	√	√	√	√	√	√	√	√	√	√		
Avon-by-the-Sea Borough		√	√	√	√	√	√	√		√	√		√
Belmar Borough		√	√	√		√	√	√	√	√	√	√	√
Bradley Beach Borough	√	√	√	√		√	√	√		√	√	√	
Brielle Borough	√	√	√	√		√	√	√		√			√
Colts Neck Township		√	√	√		√	√	√	√	√	√	√	√
Deal Borough	√	√	√	√		√	√	√		√	√	√	
Eatontown Borough	√	√	√	√		√	√	√	√	√	√		
Englishtown Borough													
Fair Haven Borough		√	√	√		√		√		√			
Farmingdale Borough	√	√	√	√	√	√	√			√	√		√
Freehold Borough	√	√	√	√		√	√	√		√	√		√
Freehold Township		√	√	√		√	√	√	√	√		√	√
Hazlet Township	√	√	√	√		√	√	√	√	√			√
Highlands Borough	√	√	√	√		√	√	√	√	√			
Holmdel Township		√	√	√		√	√	√	√	√	√	√	√
Howell Township	√	√	√	√	√	√	√	√	√	√	√		√
Interlaken Borough	√	√	√	√	√	√	√		√	√	√		√
Keansburg Borough	√	√	√	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√	√	√	√	√	√	√	√
Lake Como Borough		√	√	√		√	√	√	√	√	√	√	
Little Silver Borough		√	√	√	√	√	√		√	√		√	√
Loch Arbour Village													
City of Long Branch		√	√	√		√	√	√	√	√			√
Manalapan Township	√	√	√	√	√	√	√	√		√	√	√	√
Manasquan Borough	√	√	√	√		√	√	√		√	√	√	√

**Table 4-1 (continued)  
Jurisdictional Legal and Regulatory Capabilities**

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√
Loch Arbour Village										
City of Long Branch	√	√		√	√	√			√	√
Manalapan Township	√	√	√	√		√			√	
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√
Matawan Borough	√	√	√			√			√	√
Middletown Township	√	√	√	√	√	√	√	√	√	√

**Table 4-3  
Jurisdictional Fiscal Capabilities**

Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Monmouth County	√	√	√		√	√	√			
Aberdeen Township	√	√	√	√	√	√	√	√	√	√
Allenhurst Borough	√	√	√	√	√	√	√			
Allentown Borough	√	√	√	√		√				
City of Asbury Park	√	√	√	√	√	√	√	√	√	
Atlantic Highlands Borough	√	√	√	√	√	√	√		√	
Avon-by-the-Sea Borough	√	√	√	√		√	√		√	
Belmar Borough	√	√	√	√	√	√	√			
Bradley Beach Borough	√	√	√	√		√	√			
Brielle Borough	√	√	√	√	√	√	√			
Colts Neck Township		√	√		√	√	√		√	
Deal Borough	√	√	√	√		√	√			
Eatontown Borough	√	√	√	√	√	√	√			
Englishtown Borough										
Fair Haven Borough	√	√					√			
Farmingdale Borough	√	√	√	√		√	√			
Freehold Borough	√	√	√	√		√	√	√		
Freehold Township	√	√	√	√	√	√				
Hazlet Township	√	√	√		√	√				
Highlands Borough	√	√		√	√					
Holmdel Township		√	√	√	√	√				
Howell Township	√	√	√	√		√	√			
Interlaken Borough		√	√	√		√	√			
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√				
Lake Como Borough	√	√		√		√				
Little Silver Borough		√				√				
Loch Arbour Village										
City of Long Branch	√	√			√	√				
Manalapan Township	√	√	√			√	√			
Manasquan Borough		√	√	√		√	√			
Marlboro Township	√	√	√		√	√	√	√	√	√

Municipality: BOROUGH OF FAIR HAVEN

<p>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</p>
<p>MODERATE</p>	<p>LOW</p>	<p>MODERATE</p>	<p>MODERATE</p>	<p>HIGH</p>
<p>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</p>				
<p>POLITICAL LEADERSHIP WOULD BE WILLING, BUT WOULD NEED TRAINING TO BETTER IDENTIFY THESE AREAS. MORE TRAINING IS NEEDED FOR OFFICIALS TO UNDERSTAND THE RISKS.</p>				



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**
- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** \_\_\_\_\_ **Helene Schlegel**

**Title:** \_\_\_\_\_ **OEM Coordinator**

Representing: \_\_\_\_\_ Farmingdale Borough

Email and Phone: hschlegel@twp.howell.nj.us 732-938-4500 ext. 2102

**Legal and Regulatory Capability - 2009 Plan**

Table 4-1 Jurisdictional Legal and Regulatory Capabilities													
Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Monmouth County				√		√	√	√		√			
Aberdeen Township		√	√	√		√	√	√	√	√	√	√	
Allenhurst Borough	√	√	√			√	√	√	√	√			√
Allentown Borough	√	√	√	√		√		√	√	√			
City of Asbury Park	√	√	√	√		√	√	√	√	√	√		√
Atlantic Highlands Borough	√	√	√	√	√	√	√	√	√	√	√		
Avon-by-the-Sea Borough		√	√	√	√	√	√	√		√	√		√
Belmar Borough		√	√	√		√	√	√	√	√	√	√	√
Bradley Beach Borough	√	√	√	√		√	√	√		√	√	√	
Brielle Borough	√	√	√	√		√	√	√		√			√
Colts Neck Township		√	√	√		√	√	√	√	√	√	√	√
Deal Borough	√	√	√	√		√	√	√		√	√	√	
Eatontown Borough	√	√	√	√		√	√	√	√	√	√		
Englishtown Borough													
Fair Haven Borough		√	√	√		√		√		√			
Farmingdale Borough	√	√	√	√	√	√	√			√	√		√
Freehold Borough	√	√	√	√		√	√	√		√	√		√
Freehold Township		√	√	√		√	√	√	√	√		√	√
Hazlet Township	√	√	√	√		√	√	√	√	√			√
Highlands Borough	√	√	√	√		√	√	√	√	√			
Holmdel Township		√	√	√		√	√	√	√	√	√	√	√
Howell Township	√	√	√	√	√	√	√	√	√	√	√		√
Interlaken Borough	√	√	√	√	√	√	√		√	√	√		√
Keansburg Borough	√	√	√	√	√	√	√	√	√	√	√	√	√

**Administrative and Technical Capacity - 2009 Plan**

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√

**Fiscal Capability - 2009 Plan**

<b>Table 4-3 Jurisdictional Fiscal Capabilities</b>										
<b>Jurisdiction</b>	<b>Community Development Block Grants (CDBG)</b>	<b>Capital Improvements Project Funding</b>	<b>Authority to Levy Taxes for Specific Purposes</b>	<b>Fees for Water, Sewer, Gas, or Electric Service</b>	<b>Impact Fees for Homebuyers or Developers for New Developments/Homes</b>	<b>Incur Debt through General Obligation Funds</b>	<b>Incur Debt through Special Tax and Revenue Bonds</b>	<b>Incur Debt through Private Activity Bonds</b>	<b>Withhold Spending in Hazard-Prone Areas</b>	<b>Other</b>
Monmouth County	√	√	√		√	√	√			
Aberdeen Township	√	√	√	√	√	√	√	√	√	√
Allenhurst Borough	√	√	√	√	√	√	√			
Allentown Borough	√	√	√	√		√				
City of Asbury Park	√	√	√	√	√	√	√	√	√	
Atlantic Highlands Borough	√	√	√	√	√	√	√		√	
Avon-by-the-Sea Borough	√	√	√	√		√	√		√	
Belmar Borough	√	√	√	√	√	√	√			
Bradley Beach Borough	√	√	√	√		√	√			
Brielle Borough	√	√	√	√	√	√	√			
Colts Neck Township		√	√		√	√	√		√	
Deal Borough	√	√	√	√		√	√			
Eatontown Borough	√	√	√	√	√	√	√			
Englishtown Borough										
Fair Haven Borough	√	√					√			
Farmingdale Borough	√	√	√	√		√	√			
Freehold Borough	√	√	√	√		√	√	√		
Freehold Township	√	√	√	√	√	√				
Hazlet Township	√	√	√		√	√				
Highlands Borough	√	√		√	√					
Holmdel Township		√	√	√	√	√				
Howell Township	√	√	√	√		√	√			
Interlaken Borough		√	√	√		√	√			

<b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b>
Moderate	Moderate	Moderate	Low	High

**Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.**

**More Funding and Efforts should be made to increase clarification and responsibility with overlapping jurisdictions. As an example, flooding may occur in a municipal right-of-way or residence or business upstream from a blocked stream, culvert or storm sewer whose ownership responsibility is not clear**



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name: \_Henry A. Stryker III**

**Title: \_OEM Coordinator**

**Representing: Freehold Borough**

**Email and Phone: [hstryker@freeholdboro.org](mailto:hstryker@freeholdboro.org) 732-462-4903**

**Legal and Regulatory Capability - 2009 Plan**

Table 4-1 Jurisdictional Legal and Regulatory Capabilities													
Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Monmouth County				√		√	√	√		√			
Aberdeen Township		√	√	√		√	√	√	√	√	√	√	
Allenhurst Borough	√	√	√			√	√	√	√	√			√
Allentown Borough	√	√	√	√		√		√	√	√			
City of Asbury Park	√	√	√	√		√	√	√	√	√	√		√
Atlantic Highlands Borough	√	√	√	√	√	√	√	√	√	√	√		
Avon-by-the-Sea Borough		√	√	√	√	√	√	√		√	√		√
Belmar Borough		√	√	√		√	√	√	√	√	√	√	√
Bradley Beach Borough	√	√	√	√		√	√	√		√	√	√	
Brielle Borough	√	√	√	√		√	√	√		√			√
Colts Neck Township		√	√	√		√	√	√	√	√	√	√	√
Deal Borough	√	√	√	√		√	√	√		√	√	√	
Eatontown Borough	√	√	√	√		√	√	√	√	√	√		
Englishtown Borough													
Fair Haven Borough		√	√	√		√		√		√			
Farmingdale Borough	√	√	√	√	√	√	√			√	√		√
Freehold Borough	√	√	√	√		√	√	√		√	√		√
Freehold Township		√	√	√		√	√	√	√	√		√	√
Hazlet Township	√	√	√	√		√	√	√	√	√			√
Highlands Borough	√	√	√	√		√	√	√	√	√			
Holmdel Township		√	√	√		√	√	√	√	√	√	√	√
Howell Township	√	√	√	√	√	√	√	√	√	√	√		√
Interlaken Borough	√	√	√	√	√	√	√		√	√	√		√
Keansburg Borough	√	√	√	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√	√	√	√	√	√	√	√
Lake Como Borough		√	√	√		√	√	√	√	√	√	√	
Little Silver Borough		√	√	√	√	√	√		√	√		√	√
Loch Arbour Village													
City of Long Branch		√	√	√		√	√	√	√	√			√
Manalapan Township	√	√	√	√	√	√	√	√		√	√	√	√
Manasquan Borough	√	√	√	√		√	√	√		√	√	√	√

**Administrative and Technical Capacity - 2009 Plan**

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough	X	√		X		√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√
Loch Arbour Village										
City of Long Branch	√	√		√	√	√			√	√
Manalapan Township	√	√	√	√		√			√	
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√

**Fiscal Capability - 2009 Plan**

Table 4-3 Jurisdictional Fiscal Capabilities										
Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Monmouth County	√	√	√		√	√	√			
Aberdeen Township	√	√	√	√	√	√	√	√	√	√
Allenhurst Borough	√	√	√	√	√	√	√			
Allentown Borough	√	√	√	√		√				
City of Asbury Park	√	√	√	√	√	√	√	√	√	
Atlantic Highlands Borough	√	√	√	√	√	√	√		√	
Avon-by-the-Sea Borough	√	√	√	√		√	√		√	
Belmar Borough	√	√	√	√	√	√	√			
Bradley Beach Borough	√	√	√	√		√	√			
Brielle Borough	√	√	√	√	√	√	√			
Colts Neck Township		√	√		√	√	√		√	
Deal Borough	√	√	√	√		√	√			
Eatontown Borough	√	√	√	√	√	√	√			
Englishtown Borough										
Fair Haven Borough	√	√					√			
Farmingdale Borough	√	√	√	√		√	√			
Freehold Borough	√	√	√	√		√	√	√		
Freehold Township	√	√	√	√	√	√				
Hazlet Township	√	√	√		√	√				
Highlands Borough	√	√		√	√					
Holmdel Township		√	√	√	√	√				
Howell Township	√	√	√	√		√	√			
Interlaken Borough		√	√	√		√	√			
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√				
Lake Como Borough	√	√		√		√				
Little Silver Borough		√				√				
Loch Arbour Village										
City of Long Branch	√	√			√	√				
Manalapan Township	√	√	√			√	√			

Municipality : Freehold Borough

<p>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</p>
Moderate	High	Moderate	High	High
<p>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</p>				
<p><b>Jurisdictional Legal and Regulatory Compliance</b> -The Borough of Freehold will investigate the development and instituting of a Growth Management Ordinance, Post Disaster Recovery Ordinance and an Economic Development Plan.</p> <p><b>Jurisdictional Fiscal Capabilities</b> - The Borough of Freehold is 98% developed but will investigate the possibility of developing procedures for Impact Fees For Homeowners or Developers for New Developments/Homes. The Borough will investigate and identify hazard prone areas and if it is possible withhold any future spending in these areas.</p>				



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**
- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

\_\_\_The Township of Freehold has identified Timothy P. White as the flood plain manager\_\_\_\_\_

**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** Timothy P. White\_\_\_\_\_

**Title:** Township Engineer\_\_\_\_\_

**Representing:** Township of Freehold\_\_\_\_\_

**Email and Phone:** [twhite@twp.freehold.nj.us](mailto:twhite@twp.freehold.nj.us) (732) 294-2071\_\_\_\_\_

**Legal and Regulatory Capability - 2009 Plan**

<b>Table 4-1 Jurisdictional Legal and Regulatory Capabilities</b>													
<b>Jurisdiction</b>	<b>Building Code</b>	<b>Zoning Ordinance</b>	<b>Subdivision Ordinance</b>	<b>Special Purposes Ordinance</b>	<b>Growth Management Ordinance</b>	<b>Site Plan Review Requirements</b>	<b>Comprehensive Plan</b>	<b>Capital Improvements Plan</b>	<b>Economic Development Plan</b>	<b>Emergency Response Plan</b>	<b>Post-Disaster Recovery Plan</b>	<b>Post-Disaster Recovery Ordinance</b>	<b>Real Estate Disclosure Ordinance</b>
Monmouth County				√		√	√	√		√			
Aberdeen Township		√	√	√		√	√	√	√	√	√	√	
Allenhurst Borough	√	√	√			√	√	√	√	√			√
Allentown Borough	√	√	√	√		√		√	√	√			
City of Asbury Park	√	√	√	√		√	√	√	√	√	√		√
Atlantic Highlands Borough	√	√	√	√	√	√	√	√	√	√	√		
Avon-by-the-Sea Borough		√	√	√	√	√	√	√		√	√		√
Belmar Borough		√	√	√		√	√	√	√	√	√	√	√
Bradley Beach Borough	√	√	√	√		√	√	√		√	√	√	
Brielle Borough	√	√	√	√		√	√	√		√			√
Colts Neck Township		√	√	√		√	√	√	√	√	√	√	√
Deal Borough	√	√	√	√		√	√	√		√	√	√	
Eatontown Borough	√	√	√	√		√	√	√	√	√	√		
Englishtown Borough													
Fair Haven Borough		√	√	√		√		√		√			
Farmingdale Borough	√	√	√	√	√	√	√			√	√		√
Freehold Borough	√	√	√	√		√	√	√		√	√		√
Freehold Township		√	√	√		√	√	√	√	√		√	√
Hazlet Township	√	√	√	√		√	√	√	√	√			√
Highlands Borough	√	√	√	√		√	√	√	√	√			
Holmdel Township		√	√	√		√	√	√	√	√	√	√	√
Howell Township	√	√	√	√	√	√	√	√	√	√	√		√
Interlaken Borough	√	√	√	√	√	√	√		√	√	√		√
Keansburg Borough	√	√	√	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√	√	√	√	√	√	√	√
Lake Como Borough		√	√	√		√	√	√	√	√	√	√	
Little Silver Borough		√	√	√	√	√	√		√	√		√	√
Loch Arbour Village													
City of Long Branch		√	√	√		√	√	√	√	√			√
Manalapan Township	√	√	√	√	√	√	√	√		√	√	√	√
Manasquan Borough	√	√	√	√		√	√	√		√	√	√	√

**Administrative and Technical Capacity - 2009 Plan**

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√	√	√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√
Loch Arbour Village										
City of Long Branch	√	√		√	√	√			√	√
Manalapan Township	√	√	√	√		√			√	
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√

**Fiscal Capability - 2009 Plan**

Table 4-3 Jurisdictional Fiscal Capabilities										
Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Monmouth County	√	√	√		√	√	√			
Aberdeen Township	√	√	√	√	√	√	√	√	√	√
Allenhurst Borough	√	√	√	√	√	√	√			
Allentown Borough	√	√	√	√		√				
City of Asbury Park	√	√	√	√	√	√	√	√	√	
Atlantic Highlands Borough	√	√	√	√	√	√	√		√	
Avon-by-the-Sea Borough	√	√	√	√		√	√		√	
Belmar Borough	√	√	√	√	√	√	√			
Bradley Beach Borough	√	√	√	√		√	√			
Brielle Borough	√	√	√	√	√	√	√			
Colts Neck Township		√	√		√	√	√		√	
Deal Borough	√	√	√	√		√	√			
Eatontown Borough	√	√	√	√	√	√	√			
Englishtown Borough										
Fair Haven Borough	√	√					√			
Farmingdale Borough	√	√	√	√		√	√			
Freehold Borough	√	√	√	√		√	√	√		
Freehold Township	√	√	√	√	√	√				
Hazlet Township	√	√	√		√	√				
Highlands Borough	√	√		√	√					
Holmdel Township		√	√	√	√	√				
Howell Township	√	√	√	√		√	√			
Interlaken Borough		√	√	√		√	√			
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√				
Lake Como Borough	√	√		√		√				
Little Silver Borough		√				√				
Loch Arbour Village										
City of Long Branch	√	√			√	√				
Manalapan Township	√	√	√			√	√			

Municipality: Township of Freehold \_\_\_\_\_

<b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b>
<p align="center"><b>High</b></p>	<p align="center"><b>High</b></p>	<p align="center"><b>Moderate</b></p>	<p align="center"><b>High</b></p>	<p align="center"><b>High</b></p>
<p><b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b></p>				
<p><b>Efforts should be made to increase clarification and responsibility with overlapping jurisdictions. As an example, flooding may occur in a municipal right-of-way or residence or business upstream from a blocked stream, culvert or storm sewer whose ownership responsibility is not clear.</b></p>				



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Capability Assessment Update*

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**
- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** Thomas Horner

**Title:** Hazlet OEM Coordinator

**Representing:** Hazlet Township

**Email and Phone:** oem@hazletwp.org, - 732-264-1700

**Legal and Regulatory Capability - 2009 Plan**

<b>Table 4-1 Jurisdictional Legal and Regulatory Capabilities</b>													
<b>Jurisdiction</b>	<b>Building Code</b>	<b>Zoning Ordinance</b>	<b>Subdivision Ordinance</b>	<b>Special Purposes Ordinance</b>	<b>Growth Management Ordinance</b>	<b>Site Plan Review Requirements</b>	<b>Comprehensive Plan</b>	<b>Capital Improvements Plan</b>	<b>Economic Development Plan</b>	<b>Emergency Response Plan</b>	<b>Post-Disaster Recovery Plan</b>	<b>Post-Disaster Recovery Ordinance</b>	<b>Real Estate Disclosure Ordinance</b>
Monmouth County				√		√	√	√		√			
Aberdeen Township		√	√	√		√	√	√	√	√	√	√	
Allenhurst Borough	√	√	√			√	√	√	√	√			√
Allentown Borough	√	√	√	√		√		√	√	√			
City of Asbury Park	√	√	√	√		√	√	√	√	√	√		√
Atlantic Highlands Borough	√	√	√	√	√	√	√	√	√	√	√		
Avon-by-the-Sea Borough		√	√	√	√	√	√	√		√	√		√
Belmar Borough		√	√	√		√	√	√	√	√	√	√	√
Bradley Beach Borough	√	√	√	√		√	√	√		√	√	√	
Brielle Borough	√	√	√	√		√	√	√		√			√
Colts Neck Township		√	√	√		√	√	√	√	√	√	√	√
Deal Borough	√	√	√	√		√	√	√		√	√	√	
Eatontown Borough	√	√	√	√		√	√	√	√	√	√		
Englishtown Borough													
Fair Haven Borough		√	√	√		√		√		√			
Farmingdale Borough	√	√	√	√	√	√	√			√	√		√
Freehold Borough	√	√	√	√		√	√	√		√	√		√
Freehold Township		√	√	√		√	√	√	√	√		√	√
Hazlet Township	√	√	√	√		√	√	√	√	√			√
Highlands Borough	√	√	√	√		√	√	√	√	√			
Holmdel Township		√	√	√		√	√	√	√	√	√	√	√
Howell Township	√	√	√	√	√	√	√	√	√	√	√		√
Interlaken Borough	√	√	√	√	√	√	√		√	√	√		√
Keansburg Borough	√	√	√	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√	√	√	√	√	√	√	√
Lake Como Borough		√	√	√		√	√	√	√	√	√	√	
Little Silver Borough		√	√	√	√	√	√		√	√		√	√
Loch Arbour Village													
City of Long Branch		√	√	√		√	√	√	√	√			√
Manalapan Township	√	√	√	√	√	√	√	√		√	√	√	√
Manasquan Borough	√	√	√	√		√	√	√		√	√	√	√

**Administrative and Technical Capacity - 2009 Plan**

Table 4-2 Jurisdictional Administrative and Technical Capabilities										
Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√
Loch Arbour Village										
City of Long Branch	√	√		√	√	√			√	√
Manalapan Township	√	√	√	√		√			√	
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√

**Fiscal Capability - 2009 Plan**

Table 4-3 Jurisdictional Fiscal Capabilities										
Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Monmouth County	√	√	√		√	√	√			
Aberdeen Township	√	√	√	√	√	√	√	√	√	√
Allenhurst Borough	√	√	√	√	√	√	√			
Allentown Borough	√	√	√	√		√				
City of Asbury Park	√	√	√	√	√	√	√	√	√	
Atlantic Highlands Borough	√	√	√	√	√	√	√		√	
Avon-by-the-Sea Borough	√	√	√	√		√	√		√	
Belmar Borough	√	√	√	√	√	√	√			
Bradley Beach Borough	√	√	√	√		√	√			
Brielle Borough	√	√	√	√	√	√	√			
Colts Neck Township		√	√		√	√	√		√	
Deal Borough	√	√	√	√		√	√			
Eatontown Borough	√	√	√	√	√	√	√			
Englishtown Borough										
Fair Haven Borough	√	√					√			
Farmingdale Borough	√	√	√	√		√	√			
Freehold Borough	√	√	√	√		√	√	√		
Freehold Township	√	√	√	√	√	√				
Hazlet Township	√	√	√		√	√				
Highlands Borough	√	√		√	√					
Holmdel Township		√	√	√	√	√				
Howell Township	√	√	√	√		√	√			
Interlaken Borough		√	√	√		√	√			
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√				
Lake Como Borough	√	√		√		√				
Little Silver Borough		√				√				
Loch Arbour Village										
City of Long Branch	√	√			√	√				
Manalapan Township	√	√	√			√	√			

<p><b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b></p>
<p>Moderate</p>	<p>Moderate</p>	<p>Moderate</p>	<p>High</p>	<p>Moderate</p>
<p><b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b></p>				
<p><b>Ways of bridging gaps in our local capabilities would be:</b></p> <p><b>More involvement from local officials. More help from the local officials in identifying our vulnerabilities. Need to attend more planning meetings and get involved.</b></p>				



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**
- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name: \_Dale R. Leubner**  
**Title: \_Floodplain Administrator and Zoning Official**  
**Representing: \_\_Borough of Highlands**

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**Email and Phone: \_dleubner@tandmassociates.com 732-671-6400**

**Legal and Regulatory Capability - 2009 Plan**

Table 4-1 Jurisdictional Legal and Regulatory Capabilities													
Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Monmouth County				√		√	√	√		√			
Aberdeen Township		√	√	√		√	√	√	√	√	√	√	
Allenhurst Borough	√	√	√			√	√	√	√	√			√
Allentown Borough	√	√	√	√		√		√	√	√			
City of Asbury Park	√	√	√	√		√	√	√	√	√	√		√
Atlantic Highlands Borough	√	√	√	√	√	√	√	√	√	√	√		
Avon-by-the-Sea Borough		√	√	√	√	√	√	√		√	√		√
Belmar Borough		√	√	√		√	√	√	√	√	√	√	√
Bradley Beach Borough	√	√	√	√		√	√	√		√	√	√	
Brielle Borough	√	√	√	√		√	√	√		√			√
Colts Neck Township		√	√	√		√	√	√	√	√	√	√	√
Deal Borough	√	√	√	√		√	√	√		√	√	√	
Eatontown Borough	√	√	√	√		√	√	√	√	√	√		
Englishtown Borough													
Fair Haven Borough		√	√	√		√		√		√			
Farmingdale Borough	√	√	√	√	√	√	√			√	√		√
Freehold Borough	√	√	√	√		√	√	√		√	√		√
Freehold Township		√	√	√		√	√	√	√	√		√	√
Hazlet Township	√	√	√	√		√	√	√	√	√			√
Highlands Borough	√	√	√	√		√	√	√	√	√	X		
Holmdel Township		√	√	√		√	√	√	√	√	√	√	√
Howell Township	√	√	√	√	√	√	√	√	√	√	√		√
Interlaken Borough	√	√	√	√	√	√	√		√	√	√		√
Keansburg Borough	√	√	√	√	√	√	√	√	√	√	√	√	√

HIGHLANDS

**Administrative and Technical Capacity - 2009 Plan**

<b>Table 4-2 Jurisdictional Administrative and Technical Capabilities</b>										
<b>Jurisdiction</b>	<b>Planner(s) or Engineer(s) with knowledge of land development and management practices</b>	<b>Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure</b>	<b>Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards</b>	<b>Floodplain manager</b>	<b>Surveyors</b>	<b>Staff with education or expertise to assess the community's vulnerability to hazards</b>	<b>Personnel skilled in GIS and/or HAZUS</b>	<b>Scientists familiar with the hazards of the community</b>	<b>Emergency Manager</b>	<b>Grant Writers</b>
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√	X	X	√	√	X	√	X
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√

HIGHLANDS

**Fiscal Capability - 2009 Plan**

<b>Table 4-3 Jurisdictional Fiscal Capabilities</b>										
<b>Jurisdiction</b>	<b>Community Development Block Grants (CDBG)</b>	<b>Capital Improvements Project Funding</b>	<b>Authority to Levy Taxes for Specific Purposes</b>	<b>Fees for Water, Sewer, Gas, or Electric Service</b>	<b>Impact Fees for Homebuyers or Developers for New Developments/Homes</b>	<b>Incur Debt through General Obligation Funds</b>	<b>Incur Debt through Special Tax and Revenue Bonds</b>	<b>Incur Debt through Private Activity Bonds</b>	<b>Withhold Spending in Hazard-Prone Areas</b>	<b>Other</b>
Monmouth County	√	√	√		√	√	√			
Aberdeen Township	√	√	√	√	√	√	√	√	√	√
Allenhurst Borough	√	√	√	√	√	√	√			
Allentown Borough	√	√	√	√		√				
City of Asbury Park	√	√	√	√	√	√	√	√	√	
Atlantic Highlands Borough	√	√	√	√	√	√	√		√	
Avon-by-the-Sea Borough	√	√	√	√		√	√		√	
Belmar Borough	√	√	√	√	√	√	√			
Bradley Beach Borough	√	√	√	√		√	√			
Brielle Borough	√	√	√	√	√	√	√			
Colts Neck Township		√	√		√	√	√		√	
Deal Borough	√	√	√	√		√	√			
Eatontown Borough	√	√	√	√	√	√	√			
Englishtown Borough										
Fair Haven Borough	√	√					√			
Farmingdale Borough	√	√	√	√		√	√			
Freehold Borough	√	√	√	√		√	√	√		
Freehold Township	√	√	√	√	√	√				
Hazlet Township	√	√	√		√	√				
Highlands Borough	√	√	X	√	√	X	X	X		
Holmdel Township		√	√	√	√	√				
Howell Township	√	√	√	√		√	√			
Interlaken Borough		√	√	√		√	√			

<p>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</p>
<p>High</p>	<p>High</p>	<p>Low</p>	<p>High</p>	<p>High</p>
<p><b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b></p>				
<p>Need to rely upon financial assistance from outside agencies to implement hazard mitigation strategies and related capital improvement projects. Tax base suffered significant adverse impacts due to Superstorm Sandy.</p>				



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Capability Assessment Update

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Name: Michael Simpson

Title: Emergency Coordinator Management  
Representing: Holmdel

Email 6886745 and Phone: mikesimpson911@gmail.com 732

**Legal and Regulatory Capability - 2009 Plan**

Table 4-1 Jurisdictional Legal and Regulatory Capabilities													
Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Monmouth County				√		√	√	√		√			
Aberdeen Township		√	√	√		√	√	√	√	√	√	√	
Allenhurst Borough	√	√	√			√	√	√	√	√			√
Allentown Borough	√	√	√	√		√		√	√	√			
City of Asbury Park	√	√	√	√		√	√	√	√	√	√		√
Atlantic Highlands Borough	√	√	√	√	√	√	√	√	√	√	√		
Avon-by-the-Sea Borough		√	√	√	√	√	√	√		√	√		√
Belmar Borough		√	√	√		√	√	√	√	√	√	√	√
Bradley Beach Borough	√	√	√	√		√	√	√		√	√	√	
Brielle Borough	√	√	√	√		√	√	√		√			√
Colts Neck Township		√	√	√		√	√	√	√	√	√	√	√
Deal Borough	√	√	√	√		√	√	√		√	√	√	
Eatontown Borough	√	√	√	√		√	√	√	√	√	√		
Englishtown Borough													
Fair Haven Borough		√	√	√		√		√		√			
Farmingdale Borough	√	√	√	√	√	√	√			√	√		√
Freehold Borough	√	√	√	√		√	√	√		√	√		√
Freehold Township		√	√	√		√	√	√	√	√		√	√
Hazlet Township	√	√	√	√		√	√	√	√	√			√
Highlands Borough	√	√	√	√		√	√	√	√	√			
Holmdel Township		√	√	√		√	√	√	√	√	√	√	√
Howell Township	√	√	√	√	√	√	√	√	√	√	√		√
Interlaken Borough	√	√	√	√	√	√	√		√	√	√		√
Keansburg Borough	√	√	√	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√	√	√	√	√	√	√	√
Lake Como Borough		√	√	√		√	√	√	√	√	√	√	

**Administrative and Technical Capacity - 2009 Plan**

<b>Table 4-2 Jurisdictional Administrative and Technical Capabilities</b>										
<b>Jurisdiction</b>	<b>Planner(s) or Engineer(s) with knowledge of land development and management practices</b>	<b>Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure</b>	<b>Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards</b>	<b>Floodplain manager</b>	<b>Surveyors</b>	<b>Staff with education or expertise to assess the community's vulnerability to hazards</b>	<b>Personnel skilled in GIS and/or HAZUS</b>	<b>Scientists familiar with the hazards of the community</b>	<b>Emergency Manager</b>	<b>Grant Writers</b>
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√

**Fiscal Capability - 2009 Plan**

<b>Table 4-3 Jurisdictional Fiscal Capabilities</b>										
<b>Jurisdiction</b>	<b>Community Development Block Grants (CDBG)</b>	<b>Capital Improvements Project Funding</b>	<b>Authority to Levy Taxes for Specific Purposes</b>	<b>Fees for Water, Sewer, Gas, or Electric Service</b>	<b>Impact Fees for Homebuyers or Developers for New Developments/Homes</b>	<b>Incur Debt through General Obligation Funds</b>	<b>Incur Debt through Special Tax and Revenue Bonds</b>	<b>Incur Debt through Private Activity Bonds</b>	<b>Withhold Spending in Hazard-Prone Areas</b>	<b>Other</b>
Monmouth County	√	√	√		√	√	√			
Aberdeen Township	√	√	√	√	√	√	√	√	√	√
Allenhurst Borough	√	√	√	√	√	√	√			
Allentown Borough	√	√	√	√		√				
City of Asbury Park	√	√	√	√	√	√	√	√	√	
Atlantic Highlands Borough	√	√	√	√	√	√	√		√	
Avon-by-the-Sea Borough	√	√	√	√		√	√		√	
Belmar Borough	√	√	√	√	√	√	√			
Bradley Beach Borough	√	√	√	√		√	√			
Brielle Borough	√	√	√	√	√	√	√			
Colts Neck Township		√	√		√	√	√		√	
Deal Borough	√	√	√	√		√	√			
Eatontown Borough	√	√	√	√	√	√	√			
Englishtown Borough										
Fair Haven Borough	√	√					√			
Farmingdale Borough	√	√	√	√		√	√			
Freehold Borough	√	√	√	√		√	√	√		
Freehold Township	√	√	√	√	√	√				
Hazlet Township	√	√	√		√	√				
Highlands Borough	√	√		√	√					
Holmdel Township		√	√	√	√	√				
Howell Township	√	√	√	√		√	√			
Interlaken Borough		√	√	√		√	√			
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√				





**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Capability Assessment Update*

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**
- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name: \_\_\_\_\_ Helene Schlegel**

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**Title: \_\_\_\_\_ OEM Coordinator**

HOWELL

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Representing: \_\_\_\_\_ Howell Township

hschlegel@twp.howell.nj.us \_\_\_\_\_

Email  
4500x2102 \_\_\_\_\_

and

Phone: \_\_\_\_\_ 732-938-

**Legal and Regulatory Capability - 2009 Plan**

Table 4-1 Jurisdictional Legal and Regulatory Capabilities													
Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Monmouth County				√		√	√	√		√			
Aberdeen Township		√	√	√		√	√	√	√	√	√	√	
Allenhurst Borough	√	√	√			√	√	√	√	√			√
Allentown Borough	√	√	√	√		√		√	√	√			
City of Asbury Park	√	√	√	√		√	√	√	√	√	√		√
Atlantic Highlands Borough	√	√	√	√	√	√	√	√	√	√	√		
Avon-by-the-Sea Borough		√	√	√	√	√	√	√		√	√		√
Belmar Borough		√	√	√		√	√	√	√	√	√	√	√
Bradley Beach Borough	√	√	√	√		√	√	√		√	√	√	
Brielle Borough	√	√	√	√		√	√	√		√			√
Colts Neck Township		√	√	√		√	√	√	√	√	√	√	√
Deal Borough	√	√	√	√		√	√	√		√	√	√	
Eatontown Borough	√	√	√	√		√	√	√	√	√	√		
Englishtown Borough													
Fair Haven Borough		√	√	√		√		√		√			
Farmingdale Borough	√	√	√	√	√	√	√			√	√		√
Freehold Borough	√	√	√	√		√	√	√		√	√		√
Freehold Township		√	√	√		√	√	√	√	√		√	√
Hazlet Township	√	√	√	√		√	√	√	√	√			√
Highlands Borough	√	√	√	√		√	√	√	√	√			
Holmdel Township		√	√	√		√	√	√	√	√	√	√	√
Howell Township	√	√	√	√	√	√	√	√	√	√	√		√
Interlaken Borough	√	√	√	√	√	√	√		√	√	√		√
Keansburg Borough	√	√	√	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√	√	√	√	√	√	√	√

**Administrative and Technical Capacity - 2009 Plan**

<b>Table 4-2 Jurisdictional Administrative and Technical Capabilities</b>										
<b>Jurisdiction</b>	<b>Planner(s) or Engineer(s) with knowledge of land development and management practices</b>	<b>Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure</b>	<b>Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards</b>	<b>Floodplain manager</b>	<b>Surveyors</b>	<b>Staff with education or expertise to assess the community's vulnerability to hazards</b>	<b>Personnel skilled in GIS and/or HAZUS</b>	<b>Scientists familiar with the hazards of the community</b>	<b>Emergency Manager</b>	<b>Grant Writers</b>
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√

**Fiscal Capability - 2009 Plan**

<b>Table 4-3 Jurisdictional Fiscal Capabilities</b>										
<b>Jurisdiction</b>	<b>Community Development Block Grants (CDBG)</b>	<b>Capital Improvements Project Funding</b>	<b>Authority to Levy Taxes for Specific Purposes</b>	<b>Fees for Water, Sewer, Gas, or Electric Service</b>	<b>Impact Fees for Homebuyers or Developers for New Developments/Homes</b>	<b>Incur Debt through General Obligation Funds</b>	<b>Incur Debt through Special Tax and Revenue Bonds</b>	<b>Incur Debt through Private Activity Bonds</b>	<b>Withhold Spending in Hazard-Prone Areas</b>	<b>Other</b>
Monmouth County	√	√	√		√	√	√			
Aberdeen Township	√	√	√	√	√	√	√	√	√	√
Allenhurst Borough	√	√	√	√	√	√	√			
Allentown Borough	√	√	√	√		√				
City of Asbury Park	√	√	√	√	√	√	√	√	√	
Atlantic Highlands Borough	√	√	√	√	√	√	√		√	
Avon-by-the-Sea Borough	√	√	√	√		√	√		√	
Belmar Borough	√	√	√	√	√	√	√			
Bradley Beach Borough	√	√	√	√		√	√			
Brielle Borough	√	√	√	√	√	√	√			
Colts Neck Township		√	√		√	√	√		√	
Deal Borough	√	√	√	√		√	√			
Eatontown Borough	√	√	√	√	√	√	√			
Englishtown Borough										
Fair Haven Borough	√	√					√			
Farmingdale Borough	√	√	√	√		√	√			
Freehold Borough	√	√	√	√		√	√	√		
Freehold Township	√	√	√	√	√	√				
Hazlet Township	√	√	√		√	√				
Highlands Borough	√	√		√	√					
Holmdel Township		√	√	√	√	√				
Howell Township	√	√	√	√		√	√			
Interlaken Borough		√	√	√		√	√			
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√				

Municipality\_\_Howell Township

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<b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b>
Moderate	Moderate	Low	Moderate	High
<p><b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b></p> <p><b>Updating any relative ordinances and applying for any and all grant funds available.</b></p> <p><b>Identified gaps are lack of funding and sufficient staff. Ways of bridging gaps include seeking grant funding, shared service agreements with other municipalities, public-private partnerships, and technical assistance programs from other levels of government.</b></p>				



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Capability Assessment Update*

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Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

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**Name** Earl Alexander

**Title:** Captain / Deputy OEM Coordinator

**Representing:** Borough of Interlaken

**Email and Phone:** 732-531-1113 / [ealexander@dealpolice.org](mailto:ealexander@dealpolice.org)

**Legal and Regulatory Capability - 2009 Plan**

Table 4-1 Jurisdictional Legal and Regulatory Capabilities													
Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Monmouth County				√		√	√	√		√			
Aberdeen Township		√	√	√		√	√	√	√	√	√	√	
Allenhurst Borough	√	√	√			√	√	√	√	√			√
Allentown Borough	√	√	√	√		√		√	√	√			
City of Asbury Park	√	√	√	√		√	√	√	√	√	√		√
Atlantic Highlands Borough	√	√	√	√	√	√	√	√	√	√	√		
Avon-by-the-Sea Borough		√	√	√	√	√	√	√		√	√		√
Belmar Borough		√	√	√		√	√	√	√	√	√	√	√
Bradley Beach Borough	√	√	√	√		√	√	√		√	√	√	
Brielle Borough	√	√	√	√		√	√	√		√			√
Colts Neck Township		√	√	√		√	√	√	√	√	√	√	√
Deal Borough	√	√	√	√		√	√	√		√	√	√	
Eatontown Borough	√	√	√	√		√	√	√	√	√	√		
Englishtown Borough													
Fair Haven Borough		√	√	√		√		√		√			
Farmingdale Borough	√	√	√	√	√	√	√			√	√		√
Freehold Borough	√	√	√	√		√	√	√		√	√		√
Freehold Township		√	√	√		√	√	√	√	√		√	√
Hazlet Township	√	√	√	√		√	√	√	√	√			√
Highlands Borough	√	√	√	√		√	√	√	√	√			
Holmdel Township		√	√	√		√	√	√	√	√	√	√	√
Howell Township	√	√	√	√	√	√	√	√	√	√	√		√
Interlaken Borough	√	√	√	√	√	√	√		√	√	√		√
Keansburg Borough	√	√	√	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√	√	√	√	√	√	√	√
Lake Como Borough		√	√	√		√	√	√	√	√	√	√	
Little Silver Borough		√	√	√	√	√	√		√	√		√	√
Loch Arbour Village													
City of Long Branch		√	√	√		√	√	√	√	√			√
Manalapan Township	√	√	√	√	√	√	√	√		√	√	√	√
Manasquan Borough	√	√	√	√		√	√	√		√	√	√	√

**Administrative and Technical Capacity - 2009 Plan**

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√
Loch Arbour Village										
City of Long Branch	√	√		√	√	√			√	√
Manalapan Township	√	√	√	√		√			√	
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√

**Fiscal Capability - 2009 Plan**

Table 4-3 Jurisdictional Fiscal Capabilities										
Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Monmouth County	√	√	√		√	√	√			
Aberdeen Township	√	√	√	√	√	√	√	√	√	√
Allenhurst Borough	√	√	√	√	√	√	√			
Allentown Borough	√	√	√	√		√				
City of Asbury Park	√	√	√	√	√	√	√	√	√	
Atlantic Highlands Borough	√	√	√	√	√	√	√		√	
Avon-by-the-Sea Borough	√	√	√	√		√	√		√	
Belmar Borough	√	√	√	√	√	√	√			
Bradley Beach Borough	√	√	√	√		√	√			
Brielle Borough	√	√	√	√	√	√	√			
Colts Neck Township		√	√		√	√	√		√	
Deal Borough	√	√	√	√		√	√			
Eatontown Borough	√	√	√	√	√	√	√			
Englishtown Borough										
Fair Haven Borough	√	√					√			
Farmingdale Borough	√	√	√	√		√	√			
Freehold Borough	√	√	√	√		√	√	√		
Freehold Township	√	√	√	√	√	√				
Hazlet Township	√	√	√		√	√				
Highlands Borough	√	√		√	√					
Holmdel Township		√	√	√	√	√				
Howell Township	√	√	√	√		√	√			
Interlaken Borough		√	√	√		√	√			
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√				
Lake Como Borough	√	√		√		√				
Little Silver Borough		√				√				
Loch Arbour Village										
City of Long Branch	√	√			√	√				
Manalapan Township	√	√	√			√	√			

<p><b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b></p>
Moderate	Moderate	Moderate	Low	High
<p><b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b></p>				
<p>The Borough consists of under 400 properties and is fully built out. The Borough's only source of funding is currently through tax ratables. The Borough will continue to seek grant funding to supplement a limited local budget in order to implement its hazard mitigation projects. While the political leadership itself has a high willingness and desire to mitigate, the ultimate dedication of limited funds tends to be toward projects with the highest level of public support, so bridging this gap would be bridged by incorporating hazard mitigation into discussions at regular council meetings.</p> <p>There are only 6 full time employees in the entire Borough; bridging identified Administrative gaps involves heavy reliance on use of shared services with Deal and Allenhurst. Shared service agreements along with partnerships with regional and private firms increases our ability to meet the technical demands while keeping costs low.</p>				



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**
- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** Ginger Rogan

**Title:** Deputy OEM

**Representing:** Borough of Keansburg

**Email and Phone:** dispgin1@aol.com (732)787-0215 x203

<b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b>
moderate	moderate	low	moderate	moderate

**Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.**

**Communication with our Mayor and Council at their monthly meetings, Public outreach. And relying on outside agencies for funding for capital improvements.**



4

**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Capability Assessment Update*

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

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- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. *(If checking box B, then please return this completed cover page and any pages with markups.)*

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

Name: Lorene Wright

Title: Business Administrator

Representing: Keyport Board

Email and Phone: LWright@Keyportonline.com

Legal and Regulatory Capability - 2009 Plan

Table 4-1 Jurisdictional Legal and Regulatory Capabilities													
Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Monmouth County				√		√	√	√		√			
Aberdeen Township		√	√	√		√	√	√	√	√	√	√	
Allenhurst Borough	√	√	√			√	√	√	√	√			√
Allentown Borough	√	√	√	√		√		√	√	√			
City of Asbury Park	√	√	√	√		√	√	√	√	√	√		√
Atlantic Highlands Borough	√	√	√	√	√	√	√	√	√	√	√		
Avon-by-the-Sea Borough		√	√	√	√	√	√	√		√	√		√
Belmar Borough		√	√	√		√	√	√	√	√	√	√	√
Bradley Beach Borough	√	√	√	√		√	√	√		√	√	√	
Brielle Borough	√	√	√	√		√	√	√		√			√
Colts Neck Township		√	√	√		√	√	√	√	√	√	√	√
Deal Borough	√	√	√	√		√	√	√		√	√	√	
Eatontown Borough	√	√	√	√		√	√	√	√	√	√		
Englishtown Borough													
Fair Haven Borough		√	√	√		√		√		√			
Farmingdale Borough	√	√	√	√	√	√	√			√	√		√
Freehold Borough	√	√	√	√		√	√	√		√	√		√
Freehold Township		√	√	√		√	√	√	√	√		√	√
Hazlet Township	√	√	√	√		√	√	√	√	√			√
Highlands Borough	√	√	√	√		√	√	√	√	√			
Holmdel Township		√	√	√		√	√	√	√	√	√	√	√
Howell Township	√	√	√	√	√	√	√	√	√	√	√		√
Interlaken Borough	√	√	√	√	√	√	√		√	√	√		√
Keansburg Borough	√	√	√	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√		√	√	√	√	√	√	√	√
Lake Como Borough		√	√	√		√	√	√	√	√	√	√	
Little Silver Borough		√	√	√	√	√	√		√	√		√	√
Loch Arbour Village													
City of Long Branch		√	√	√		√	√	√	√	√			√
Manalapan Township	√	√	√	√	√	√	√	√		√	√	√	√
Manasquan Borough	√	√	√	√		√	√	√		√	√	√	√

## Administrative and Technical Capacity - 2009 Plan

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√
Loch Arbour Village										
City of Long Branch	√	√		√	√	√			√	√
Manalapan Township	√	√	√	√		√			√	
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√

## Fiscal Capability - 2009 Plan

Table 4-3 Jurisdictional Fiscal Capabilities										
Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Monmouth County	√	√	√		√	√	√			
Aberdeen Township	√	√	√	√	√	√	√	√	√	√
Allenhurst Borough	√	√	√	√	√	√	√			
Allentown Borough	√	√	√	√		√				
City of Asbury Park	√	√	√	√	√	√	√	√	√	
Atlantic Highlands Borough	√	√	√	√	√	√	√		√	
Avon-by-the-Sea Borough	√	√	√	√		√	√		√	
Belmar Borough	√	√	√	√	√	√	√			
Bradley Beach Borough	√	√	√	√		√	√			
Brielle Borough	√	√	√	√	√	√	√			
Colts Neck Township		√	√		√	√	√		√	
Deal Borough	√	√	√	√		√	√			
Eatontown Borough	√	√	√	√	√	√	√			
Englishtown Borough										
Fair Haven Borough	√	√					√			
Farmingdale Borough	√	√	√	√		√	√			
Freehold Borough	√	√	√	√		√	√	√		
Freehold Township	√	√	√	√	√	√				
Hazlet Township	√	√	√		√	√				
Highlands Borough	√	√		√	√					
Holmdel Township		√	√	√	√	√				
Howell Township	√	√	√	√		√	√			
Interlaken Borough		√	√	√		√	√			
Kceansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√			
Lake Como Borough	√	√		√		√				
Little Silver Borough		√				√				
Loch Arbour Village										
City of Long Branch	√	√			√	√				
Manalapan Township	√	√	√			√	√			

Municipality Keypoint

Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?
High	High	Moderate	MODERATE	MODERATE
<b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b>				
<p>Most Major Roadways and Thoroughfares are City or State Operated. Improvements to culverts, Bridges and Elevation of Roadways are Multijurisdictional programs Cooperation Between City + Municipality is Needed. Spring 2013 Public Awareness meetings were held prior to Adoption of New Flood ABFE's</p>				



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
**Capability Assessment Update**

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** Louise A. Mekosh

**Title:** Borough Clerk/Administrator

**Representing:** Borough of Lake Como

**Email and Phone:** Lmekosh@boro.lake-como.nj.us 732-681-3232, ext. 202

**Legal and Regulatory Capability - 2009 Plan**

Table 4-1 Jurisdictional Legal and Regulatory Capabilities													
Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Monmouth County				✓		✓	✓	✓		✓			
Aberdeen Township		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
Allenhurst Borough	✓	✓	✓			✓	✓	✓	✓	✓			✓
Allentown Borough	✓	✓	✓	✓		✓		✓	✓	✓			
City of Asbury Park	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓
Atlantic Highlands Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Avon-by-the-Sea Borough		✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
Belmar Borough		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
Bradley Beach Borough	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	
Brielle Borough	✓	✓	✓	✓		✓	✓	✓		✓			✓
Colts Neck Township		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
Deal Borough	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	
Eatonown Borough	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		
Englishtown Borough													
Fair Haven Borough		✓	✓	✓		✓		✓		✓			
Farmingdale Borough	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓
Freehold Borough	✓	✓	✓	✓		✓	✓	✓		✓	✓		✓
Freehold Township		✓	✓	✓		✓	✓	✓	✓	✓		✓	✓
Hazlet Township	✓	✓	✓	✓		✓	✓	✓	✓	✓			✓
Highlands Borough	✓	✓	✓	✓		✓	✓	✓	✓	✓			
Holmdel Township		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
Howell Township	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
Interlaken Borough	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		✓
Keanburg Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Keypoint Borough		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
Lake Como Borough	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
Little Silver Borough		✓	✓	✓	✓	✓	✓		✓	✓		✓	✓
Loch Arbour Village													
City of Long Branch		✓	✓	✓		✓	✓	✓	✓	✓			✓
Manalapan Township	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓
Manasquan Borough	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓

**Administrative and Technical Capacity - 2009 Plan**

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	✓	✓	✓		✓	✓	✓		✓	✓
Aherdeen Township	✓	✓	✓	✓	✓	✓	✓		✓	
Allenhurst Borough	✓	✓	✓		✓	✓			✓	✓
Allentown Borough		✓	✓						✓	✓
City of Asbury Park	✓	✓	✓	✓	✓	✓	✓		✓	✓
Atlantic Highlands Borough	✓	✓	✓		✓	✓	✓		✓	✓
Avon-by-the-Sea Borough	✓	✓	✓	✓	✓	✓		✓	✓	✓
Belmar Borough	✓	✓	✓		✓	✓			✓	✓
Bradley Beach Borough	✓	✓		✓		✓			✓	
Brielle Borough	✓	✓	✓	✓	✓				✓	✓
Colts Neck Township	✓	✓	✓						✓	
Deal Borough	✓	✓			✓				✓	✓
Eatontown Borough	✓	✓	✓		✓	✓	✓		✓	
Englishtown Borough										
Fair Haven Borough	✓	✓							✓	✓
Farmingdale Borough	✓					✓			✓	
Freehold Borough		✓				✓			✓	✓
Freehold Township	✓	✓	✓		✓	✓	✓	✓	✓	
Hazlet Township	✓	✓	✓			✓			✓	
Highlands Borough	✓	✓	✓			✓	✓		✓	
Holmdel Township	✓	✓	✓	✓	✓	✓		✓	✓	✓
Howell Township	✓	✓	✓	✓		✓	✓		✓	
Interlaken Borough		✓							✓	
Kearnsburg Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Keyport Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Lake Como Borough	✓	✓	✓	✓	✓	✓	✓		✓	✓
Little Silver Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Loch Arbour Village										
City of Long Branch	✓	✓		✓	✓	✓			✓	✓
Manalapan Township	✓	✓	✓	✓		✓			✓	
Manasquan Borough		✓	✓			✓			✓	✓
Marlboro Township	✓	✓	✓	✓	✓	✓	✓		✓	✓

**Fiscal Capability - 2009 Plan**

**Table 4-3  
Jurisdictional Fiscal Capabilities**

Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Monmouth County	✓	✓	✓		✓	✓	✓			
Aberdeen Township	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Allentown Borough	✓	✓	✓	✓	✓	✓	✓			
Allentown Borough	✓	✓	✓	✓		✓				
City of Asbury Park	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Atlantic Highlands Borough	✓	✓	✓	✓	✓	✓	✓		✓	
Avon-by-the-Sea Borough	✓	✓	✓	✓		✓	✓		✓	
Belmar Borough	✓	✓	✓	✓	✓	✓	✓			
Bradley Beach Borough	✓	✓	✓	✓		✓	✓			
Brielle Borough	✓	✓	✓	✓	✓	✓	✓			
Colts Neck Township		✓	✓		✓	✓	✓		✓	
Deal Borough	✓	✓	✓	✓		✓	✓			
Falontown Borough	✓	✓	✓	✓	✓	✓	✓			
Englishtown Borough										
Fair Haven Borough	✓	✓					✓			
Farmingdale Borough	✓	✓	✓	✓		✓	✓			
Freehold Borough	✓	✓	✓	✓		✓	✓	✓		
Freehold Township	✓	✓	✓	✓	✓	✓				
Hazlet Township	✓	✓	✓		✓	✓				
Highlands Borough	✓	✓		✓	✓					
Holmdel Township		✓	✓	✓	✓	✓				
Jewell Township	✓	✓	✓	✓		✓	✓			
Interlaken Borough		✓	✓	✓		✓	✓			
Keansburg Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Keyport Borough		✓	✓	✓		✓				
Lake Como Borough	✓	✓	✓	✓		✓				
Little Silver Borough		✓				✓				
Loch Arbour Village										
City of Long Branch	✓	✓			✓	✓				
Manalapan Township	✓	✓	✓			✓	✓			

<b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b>
High	High	Moderate	High	High

**Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.**

The Borough of Lake Como's biggest gap would be in the fiscal capability of implementing the hazard mitigation strategies. The Borough has partnered with the Boroughs of Spring Lake and Belmar and the South Monmouth Regional Sewerage Authority to apply for funding for flood mitigation measures at Como Lake. The mitigation involves replacing the current outfall pipe, installation of pipes to install permanent pumps that would lower the lake level during times of storms. In addition, we have all met and agreed to split the costs for the percentage that the towns have to match to any grants approved for projects in the flood zones.



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Capability Assessment Update*

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Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**
- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** Frank Salerno

**Title:** OEM Coordinator

**Representing:** Borough of Little Silver

**Email and Phone:** 732-747-5900

**Legal and Regulatory Capability - 2009 Plan**

**Table 4-1  
Jurisdictional Legal and Regulatory Capabilities**

Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Monmouth County				√		√	√	√		√			
Aberdeen Township		√	√	√		√	√	√	√	√	√	√	
Allenhurst Borough	√	√	√			√	√	√	√	√			√
Allentown Borough	√	√	√	√		√		√	√	√			
City of Asbury Park	√	√	√	√		√	√	√	√	√	√		√
Atlantic Highlands Borough	√	√	√	√	√	√	√	√	√	√	√		
Avon-by-the-Sea Borough		√	√	√	√	√	√	√		√	√		√
Belmar Borough		√	√	√		√	√	√	√	√	√	√	√
Bradley Beach Borough	√	√	√	√		√	√	√		√	√	√	
Brielle Borough	√	√	√	√		√	√	√		√			√
Colts Neck Township		√	√	√		√	√	√	√	√	√	√	√
Deal Borough	√	√	√	√		√	√	√		√	√	√	
Eatontown Borough	√	√	√	√		√	√	√	√	√	√		
Englishtown Borough													
Fair Haven Borough		√	√	√		√		√		√			
Farmingdale Borough	√	√	√	√	√	√	√			√	√		√
Freehold Borough	√	√	√	√		√	√	√		√	√		√
Freehold Township		√	√	√		√	√	√	√	√		√	√
Hazlet Township	√	√	√	√		√	√	√	√	√			√
Highlands Borough	√	√	√	√		√	√	√	√	√			
Holmdel Township		√	√	√		√	√	√	√	√	√	√	√
Howell Township	√	√	√	√	√	√	√	√	√	√	√		√
Interlaken Borough	√	√	√	√	√	√	√		√	√	√		√
Keansburg Borough	√	√	√	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√	√	√	√	√	√	√	√
Lake Como Borough		√	√	√		√	√	√	√	√	√	√	
Little Silver Borough		√	√	√	√	√	√		√	√		√	√
Loch Arbour Village													
City of Long Branch		√	√	√		√	√	√	√	√			√
Manalapan Township	√	√	√	√	√	√	√	√		√	√	√	√
Manasquan Borough	√	√	√	√		√	√	√		√	√	√	√

**Administrative and Technical Capacity - 2009 Plan**

Table 4-2 Jurisdictional Administrative and Technical Capabilities										
Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√
Loch Arbour Village										
City of Long Branch	√	√		√	√	√			√	√
Manalapan Township	√	√	√	√		√			√	
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√

**Fiscal Capability - 2009 Plan**

Table 4-3 Jurisdictional Fiscal Capabilities										
Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Monmouth County	√	√	√		√	√	√			
Aberdeen Township	√	√	√	√	√	√	√	√	√	√
Allenhurst Borough	√	√	√	√	√	√	√			
Allentown Borough	√	√	√	√		√				
City of Asbury Park	√	√	√	√	√	√	√	√	√	
Atlantic Highlands Borough	√	√	√	√	√	√	√		√	
Avon-by-the-Sea Borough	√	√	√	√		√	√		√	
Belmar Borough	√	√	√	√	√	√	√			
Bradley Beach Borough	√	√	√	√		√	√			
Brielle Borough	√	√	√	√	√	√	√			
Colts Neck Township		√	√		√	√	√		√	
Deal Borough	√	√	√	√		√	√			
Eatontown Borough	√	√	√	√	√	√	√			
Englishtown Borough										
Fair Haven Borough	√	√					√			
Farmingdale Borough	√	√	√	√		√	√			
Freehold Borough	√	√	√	√		√	√	√		
Freehold Township	√	√	√	√	√	√				
Hazlet Township	√	√	√		√	√				
Highlands Borough	√	√		√	√					
Holmdel Township		√	√	√	√	√				
Howell Township	√	√	√	√		√	√			
Interlaken Borough		√	√	√		√	√			
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√				
Lake Como Borough	√	√		√		√				
Little Silver Borough		√				√				
Loch Arbour Village										
City of Long Branch	√	√			√	√				
Manalapan Township	√	√	√			√	√			

<b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b>
<p align="center"><b>High</b></p>	<p align="center"><b>High</b></p>	<p align="center"><b>High</b></p>	<p align="center"><b>High</b></p>	<p align="center"><b>High</b></p>
<p><b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b></p>				
<p>In review of the capability assessment, the Borough has classified all community responses as high. The Borough has activity pursue mitigation activities and has completed Action 4E (Outfall and drainage improvements at Howard's Beach) as outlined within the Borough's mitigation action section of the 2009 County Mitigation Plan. The Borough is committed to protecting its residents and shoreline from future storm events. To help protect future residents, the Borough in 2013 has adopted the revised State Model Flood Damage Prevention Ordinance adopting the Advisory Base Flood Elevation with the recommend 3 feet of freeboard for all new construction. To help eliminate possible storm surge damage along the shoreline, the Borough is actively working with the State to clean up debris within streams left by Super Storm Sandy. This activity is in-line with mitigation action goal 4F, as outlined within the Borough's mitigation action section of the 2009 County Mitigation Plan.</p>				



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Capability Assessment Update*

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Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**
- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:**                     *Peter R. Avakian P.E.*                    

**Title:**                     *Floodplain Administrator*                    

**Representing:**                     *Village of Loch Arbour*                    

**Email and Phone:**                     *Ph: 732-922-9229    Isavakian@aol.com*

**Legal and Regulatory Capability - 2009 Plan**

Table 4-1 Jurisdictional Legal and Regulatory Capabilities													
Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Monmouth County				√		√	√	√		√			
Aberdeen Township		√	√	√		√	√	√	√	√	√	√	
Allenhurst Borough	√	√	√			√	√	√	√	√			√
Allentown Borough	√	√	√	√		√		√	√	√			
City of Asbury Park	√	√	√	√		√	√	√	√	√	√		√
Atlantic Highlands Borough	√	√	√	√	√	√	√	√	√	√	√		
Avon-by-the-Sea Borough		√	√	√	√	√	√	√		√	√		√
Belmar Borough		√	√	√		√	√	√	√	√	√	√	√
Bradley Beach Borough	√	√	√	√		√	√	√		√	√	√	
Brielle Borough	√	√	√	√		√	√	√		√			√
Colts Neck Township		√	√	√		√	√	√	√	√	√	√	√
Deal Borough	√	√	√	√		√	√	√		√	√	√	
Eatontown Borough	√	√	√	√		√	√	√	√	√	√		
Englishtown Borough													
Fair Haven Borough		√	√	√		√		√		√			
Farmingdale Borough	√	√	√	√	√	√	√			√	√		√
Freehold Borough	√	√	√	√		√	√	√		√	√		√
Freehold Township		√	√	√		√	√	√	√	√		√	√
Hazlet Township	√	√	√	√		√	√	√	√	√			√
Highlands Borough	√	√	√	√		√	√	√	√	√			
Holmdel Township		√	√	√		√	√	√	√	√	√	√	√
Howell Township	√	√	√	√	√	√	√	√	√	√	√		√
Interlaken Borough	√	√	√	√	√	√	√		√	√	√		√
Keansburg Borough	√	√	√	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√	√	√	√	√	√	√	√
Lake Como Borough		√	√	√		√	√	√	√	√	√	√	
Little Silver Borough		√	√	√	√	√	√		√	√		√	√
Loch Arbour Village	<b>x</b>	<b>x</b>				<b>x</b>		<b>x</b>					
City of Long Branch		√	√	√		√	√	√	√	√			√
Manalapan Township	√	√	√	√	√	√	√	√		√	√	√	√
Manasquan Borough	√	√	√	√		√	√	√		√	√	√	√

**Administrative and Technical Capacity - 2009 Plan**

Table 4-2 Jurisdictional Administrative and Technical Capabilities										
Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√
Loch Arbour Village	x	x	x	x	x	x	x			x
City of Long Branch	√	√		√	√	√			√	√
Manalapan Township	√	√	√	√		√			√	
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√

**Fiscal Capability - 2009 Plan**

Table 4-3 Jurisdictional Fiscal Capabilities										
Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Monmouth County	√	√	√		√	√	√			
Aberdeen Township	√	√	√	√	√	√	√	√	√	√
Allenhurst Borough	√	√	√	√	√	√	√			
Allentown Borough	√	√	√	√		√				
City of Asbury Park	√	√	√	√	√	√	√	√	√	
Atlantic Highlands Borough	√	√	√	√	√	√	√		√	
Avon-by-the-Sea Borough	√	√	√	√		√	√		√	
Belmar Borough	√	√	√	√	√	√	√			
Bradley Beach Borough	√	√	√	√		√	√			
Brielle Borough	√	√	√	√	√	√	√			
Colts Neck Township		√	√		√	√	√		√	
Deal Borough	√	√	√	√		√	√			
Eatontown Borough	√	√	√	√	√	√	√			
Englishtown Borough										
Fair Haven Borough	√	√					√			
Farmingdale Borough	√	√	√	√		√	√			
Freehold Borough	√	√	√	√		√	√	√		
Freehold Township	√	√	√	√	√	√				
Hazlet Township	√	√	√		√	√				
Highlands Borough	√	√		√	√					
Holmdel Township		√	√	√	√	√				
Howell Township	√	√	√	√		√	√			
Interlaken Borough		√	√	√		√	√			
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√				
Lake Como Borough	√	√		√		√				
Little Silver Borough		√				√				
Loch Arbour Village	<b>x</b>	<b>x</b>								
City of Long Branch	√	√			√	√				
Manalapan Township	√	√	√			√	√			

<b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b>
<p align="center"><b>High</b></p>	<p align="center"><b>High</b></p>	<p align="center"><b>Moderate</b></p>	<p align="center"><b>High</b></p>	<p align="center"><b>High</b></p>
<p><b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b></p>				
Empty space for discussion				



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**
- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** Charles F. Shirley Jr.

**Title:** Deputy

**Representing:** City of Long Branch

**Email and Phone:** cshirley@longbranch.org - 732-222-7000

**Legal and Regulatory Capability - 2009 Plan**

Table 4-1 Jurisdictional Legal and Regulatory Capabilities													
Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Monmouth County				√		√	√	√		√			
Aberdeen Township		√	√	√		√	√	√	√	√	√	√	
Allenhurst Borough	√	√	√			√	√	√	√	√			√
Allentown Borough	√	√	√	√		√		√	√	√			
City of Asbury Park	√	√	√	√		√	√	√	√	√	√		√
Atlantic Highlands Borough	√	√	√	√	√	√	√	√	√	√	√		
Avon-by-the-Sea Borough		√	√	√	√	√	√	√		√	√		√
Belmar Borough		√	√	√		√	√	√	√	√	√	√	√
Bradley Beach Borough	√	√	√	√		√	√	√		√	√	√	
Brielle Borough	√	√	√	√		√	√	√		√			√
Colts Neck Township		√	√	√		√	√	√	√	√	√	√	√
Deal Borough	√	√	√	√		√	√	√		√	√	√	
Eatontown Borough	√	√	√	√		√	√	√	√	√	√		
Englishtown Borough													
Fair Haven Borough		√	√	√		√		√		√			
Farmingdale Borough	√	√	√	√	√	√	√			√	√		√
Freehold Borough	√	√	√	√		√	√	√		√	√		√
Freehold Township		√	√	√		√	√	√	√	√		√	√
Hazlet Township	√	√	√	√		√	√	√	√	√			√
Highlands Borough	√	√	√	√		√	√	√	√	√			
Holmdel Township		√	√	√		√	√	√	√	√	√	√	√
Howell Township	√	√	√	√	√	√	√	√	√	√	√		√
Interlaken Borough	√	√	√	√	√	√	√		√	√	√		√
Keansburg Borough	√	√	√	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√	√	√	√	√	√	√	√
Lake Como Borough		√	√	√		√	√	√	√	√	√	√	
Little Silver Borough		√	√	√	√	√	√		√	√		√	√
Loch Arbour Village													
City of Long Branch	X	√	√	√		√	√	√	√	√	X		√
Manalapan Township	√	√	√	√	√	√	√	√		√	√	√	√
Manasquan Borough	√	√	√	√		√	√	√		√	√	√	√

**Administrative and Technical Capacity - 2009 Plan**

Table 4-2 Jurisdictional Administrative and Technical Capabilities										
Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√
Loch Arbour Village										
City of Long Branch	√	√	X	√	√	√	X		√	√
Manalapan Township	√	√	√	√		√			√	
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√

## Fiscal Capability - 2009 Plan

Table 4-3 Jurisdictional Fiscal Capabilities										
Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Monmouth County	√	√	√		√	√	√			
Aberdeen Township	√	√	√	√	√	√	√	√	√	√
Allenhurst Borough	√	√	√	√	√	√	√			
Allentown Borough	√	√	√	√		√				
City of Asbury Park	√	√	√	√	√	√	√	√	√	
Atlantic Highlands Borough	√	√	√	√	√	√	√		√	
Avon-by-the-Sea Borough	√	√	√	√		√	√		√	
Belmar Borough	√	√	√	√	√	√	√			
Bradley Beach Borough	√	√	√	√		√	√			
Brielle Borough	√	√	√	√	√	√	√			
Colts Neck Township		√	√		√	√	√		√	
Deal Borough	√	√	√	√		√	√			
Eatontown Borough	√	√	√	√	√	√	√			
Englishtown Borough										
Fair Haven Borough	√	√					√			
Farmingdale Borough	√	√	√	√		√	√			
Freehold Borough	√	√	√	√		√	√	√		
Freehold Township	√	√	√	√	√	√				
Hazlet Township	√	√	√		√	√				
Highlands Borough	√	√		√	√					
Holmdel Township		√	√	√	√	√				
Howell Township	√	√	√	√		√	√			
Interlaken Borough		√	√	√		√	√			
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√				
Lake Como Borough	√	√		√		√				
Little Silver Borough		√				√				
Loch Arbour Village										
City of Long Branch	√	√	X		√	√	X			
Manalapan Township	√	√	√			√	√			

Municipality \_\_\_\_\_

<p><b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b></p>
<p>High</p>	<p>Moderate</p>	<p>Low</p>	<p>Moderate</p>	<p>High</p>
<p><b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b></p>				
<p>The major issue for our community is financial, if a funding source were identified and secured our community would be able to implement several identified projects.</p>				



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

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**A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**

**X**  **B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

**Then, review and answer the supplemental questions on Page 7. Check box C.**

**X**  **C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** James Winckowski

**Title:** Township Engineer's Office

**Representing:** Manalapan Township

**Email and Phone:** jwinckowski@cmeusa1.com 732-462-7400

**Legal and Regulatory Capability - 2009 Plan**

Table 4-1 Jurisdictional Legal and Regulatory Capabilities													
Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Monmouth County				√		√	√	√		√			
Aberdeen Township		√	√	√		√	√	√	√	√	√	√	
Allenhurst Borough	√	√	√			√	√	√	√	√			√
Allentown Borough	√	√	√	√		√		√	√	√			
City of Asbury Park	√	√	√	√		√	√	√	√	√	√		√
Atlantic Highlands Borough	√	√	√	√	√	√	√	√	√	√	√		
Avon-by-the-Sea Borough		√	√	√	√	√	√	√		√	√		√
Belmar Borough		√	√	√		√	√	√	√	√	√	√	√
Bradley Beach Borough	√	√	√	√		√	√	√		√	√	√	
Brielle Borough	√	√	√	√		√	√	√		√			√
Colts Neck Township		√	√	√		√	√	√	√	√	√	√	√
Deal Borough	√	√	√	√		√	√	√		√	√	√	
Eatontown Borough	√	√	√	√		√	√	√	√	√	√		
Englishtown Borough													
Fair Haven Borough		√	√	√		√		√		√			
Farmingdale Borough	√	√	√	√	√	√	√			√	√		√
Freehold Borough	√	√	√	√		√	√	√		√	√		√
Freehold Township		√	√	√		√	√	√	√	√		√	√
Hazlet Township	√	√	√	√		√	√	√	√	√			√
Highlands Borough	√	√	√	√		√	√	√	√	√			
Holmdel Township		√	√	√		√	√	√	√	√	√	√	√
Howell Township	√	√	√	√	√	√	√	√	√	√	√		√
Interlaken Borough	√	√	√	√	√	√	√		√	√	√		√
Keansburg Borough	√	√	√	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√	√	√	√	√	√	√	√
Lake Como Borough		√	√	√		√	√	√	√	√	√	√	
Little Silver Borough		√	√	√	√	√	√		√	√		√	√
Loch Arbour Village													
City of Long Branch		√	√	√		√	√	√	√	√			√
Manalapan Township	√	√	√	✗	✗	√	√	√		√	✗	✗	✗
Manasquan Borough	√	√	√	√		√	√	√		√	√	√	√

**Administrative and Technical Capacity - 2009 Plan**

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√
Loch Arbour Village										
City of Long Branch	√	√		√	√	√			√	√
Manalapan Township	√	√	√	√		√			√	
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√

**Fiscal Capability - 2009 Plan**

<b>Table 4-3 Jurisdictional Fiscal Capabilities</b>										
<b>Jurisdiction</b>	<b>Community Development Block Grants (CDBG)</b>	<b>Capital Improvements Project Funding</b>	<b>Authority to Levy Taxes for Specific Purposes</b>	<b>Fees for Water, Sewer, Gas, or Electric Service</b>	<b>Impact Fees for Homebuyers or Developers for New Developments/Homes</b>	<b>Incur Debt through General Obligation Funds</b>	<b>Incur Debt through Special Tax and Revenue Bonds</b>	<b>Incur Debt through Private Activity Bonds</b>	<b>Withhold Spending in Hazard-Prone Areas</b>	<b>Other</b>
Monmouth County	√	√	√		√	√	√			
Aberdeen Township	√	√	√	√	√	√	√	√	√	√
Allenhurst Borough	√	√	√	√	√	√	√			
Allentown Borough	√	√	√	√		√				
City of Asbury Park	√	√	√	√	√	√	√	√	√	
Atlantic Highlands Borough	√	√	√	√	√	√	√		√	
Avon-by-the-Sea Borough	√	√	√	√		√	√		√	
Belmar Borough	√	√	√	√	√	√	√			
Bradley Beach Borough	√	√	√	√		√	√			
Brielle Borough	√	√	√	√	√	√	√			
Colts Neck Township		√	√		√	√	√		√	
Deal Borough	√	√	√	√		√	√			
Eatontown Borough	√	√	√	√	√	√	√			
Englishtown Borough										
Fair Haven Borough	√	√					√			
Farmingdale Borough	√	√	√	√		√	√			
Freehold Borough	√	√	√	√		√	√	√		
Freehold Township	√	√	√	√	√	√				
Hazlet Township	√	√	√		√	√				
Highlands Borough	√	√		√	√					
Holmdel Township		√	√	√	√	√				
Howell Township	√	√	√	√		√	√			
Interlaken Borough		√	√	√		√	√			
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√				
Lake Como Borough	√	√		√		√				
Little Silver Borough		√				√				
Loch Arbour Village										
City of Long Branch	√	√			√	√				
Manalapan Township	√	√	√		√	√	√			

<p><b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b></p>
<p>high</p>	<p>high</p>	<p>moderate</p>	<p>high</p>	<p>high</p>
<p><b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b></p>				
<p>Manalapan Township intends on bridging the gaps in our local capabilities by conducting a comprehensive educational program between all the departments involved with pre- and post- disaster mitigation to ensure the goals and objectives of the hazard mitigation plan are known to all parties. This will include establishing leadership roles and liasons who can coordinate between the different departments to ensure task activities are not duplicated nor missed.</p>				



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**
- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** \_\_\_\_\_ David W. Kircher \_\_\_\_\_

**Title:** \_\_\_\_\_ OEM Coordinator \_\_\_\_\_

**Representing:** \_\_\_\_\_ Manasquan Borough \_\_\_\_\_

**Email and Phone:** \_\_\_\_\_ oem@manasquan-nj.com \_\_\_\_\_

**Legal and Regulatory Capability - 2009 Plan**

<b>Table 4-1 Jurisdictional Legal and Regulatory Capabilities</b>													
<b>Jurisdiction</b>	<b>Building Code</b>	<b>Zoning Ordinance</b>	<b>Subdivision Ordinance</b>	<b>Special Purposes Ordinance</b>	<b>Growth Management Ordinance</b>	<b>Site Plan Review Requirements</b>	<b>Comprehensive Plan</b>	<b>Capital Improvements Plan</b>	<b>Economic Development Plan</b>	<b>Emergency Response Plan</b>	<b>Post-Disaster Recovery Plan</b>	<b>Post-Disaster Recovery Ordinance</b>	<b>Real Estate Disclosure Ordinance</b>
Monmouth County				√		√	√	√		√			
Aberdeen Township		√	√	√		√	√	√	√	√	√	√	
Allenhurst Borough	√	√	√			√	√	√	√	√			√
Allentown Borough	√	√	√	√		√		√	√	√			
City of Asbury Park	√	√	√	√		√	√	√	√	√	√		√
Atlantic Highlands Borough	√	√	√	√	√	√	√	√	√	√	√		
Avon-by-the-Sea Borough		√	√	√	√	√	√	√		√	√		√
Belmar Borough		√	√	√		√	√	√	√	√	√	√	√
Bradley Beach Borough	√	√	√	√		√	√	√		√	√	√	
Brielle Borough	√	√	√	√		√	√	√		√			√
Colts Neck Township		√	√	√		√	√	√	√	√	√	√	√
Deal Borough	√	√	√	√		√	√	√		√	√	√	
Eatontown Borough	√	√	√	√		√	√	√	√	√	√		
Englishtown Borough													
Fair Haven Borough		√	√	√		√		√		√			
Farmingdale Borough	√	√	√	√	√	√	√			√	√		√
Freehold Borough	√	√	√	√		√	√	√		√	√		√
Freehold Township		√	√	√		√	√	√	√	√		√	√
Hazlet Township	√	√	√	√		√	√	√	√	√			√
Highlands Borough	√	√	√	√		√	√	√	√	√			
Holmdel Township		√	√	√		√	√	√	√	√	√	√	√
Howell Township	√	√	√	√	√	√	√	√	√	√	√		√
Interlaken Borough	√	√	√	√	√	√	√		√	√	√		√
Keansburg Borough	√	√	√	√	√	√	√	√	√	√	√	√	√
Keyport Borough		√	√	√		√	√	√	√	√	√	√	√
Lake Como Borough		√	√	√		√	√	√	√	√	√	√	
Little Silver Borough		√	√	√	√	√	√		√	√		√	√
Loch Arbour Village													
City of Long Branch		√	√	√		√	√	√	√	√			√
Manalapan Township	√	√	√	√	√	√	√	√		√	√	√	√
Manasquan Borough	√	√	√	√		√	√	√		√	√	√	√

**Administrative and Technical Capacity - 2009 Plan**

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√
Loch Arbour Village										
City of Long Branch	√	√		√	√	√			√	√
Manalapan Township	√	√	√	√		√			√	
Manasquan Borough	X	√	√	X	X	√		√	√	√
Marlboro Township	√	√	√	√	√	√	√		√	√

**Table 4-3  
Jurisdictional Fiscal Capabilities**

Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Manasquan Borough		√	√	√		√	√			
Marlboro Township	√	√	√		√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	
Middletown Township	√	√				√	√	√		
Millstone Township	√	√	√		√	√				
Monmouth Beach Borough	√	√	√			√				
Neptune Township	√	√	√	√	√	√	√			
Neptune City	√	√	√	√	√					
Ocean Township		√			√	√				
Oceanport Borough	√	√	√		√	√	√			
Red Bank Borough	√	√	√	√	√	√	√			
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	
Sea Bright Borough						√				
Sea Girt Borough	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough		√	√		√					
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√			
Spring Lake Heights Borough	√	√	√	√		√	√			
Tinton Falls Borough		√	√	√	√	√	√	√	√	√
Union Beach Borough	√	√	√	√	√	√	√			
Upper Freehold Township	√		√		√	√				
Wall Township	√	√		√		√	√			
West Long Branch Borough	√	√	√			√	√			
Monmouth University						√				

Municipality \_\_\_\_\_

<p><b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b></p>
<p><b>High</b></p>	<p><b>Low</b></p>	<p><b>Low</b></p>	<p><b>Low</b></p>	<p><b>Moderate</b></p>
<p><b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b></p>				
<p><b>Manasquan has the regulatory capability and has well-trained staff that possess both a working and technical knowledge of flood hazards. However, Manasquan lacks the necessary technical infrastructure &amp; training (ie: GIS/HAZUS), minimal fiscal funds, especially in light of lost tax/ratable income in the wake of Hurricane Sandy, and lacks administrative capability (staff) to implement the hazard mitigation plan to its fullest.</b></p> <p><b>Manasquan will a pursue grants that can assist with mitigation activities including technical infrastructure and technical assistance &amp; training. Manasquan will work with Monmouth County GIS to possibly incorporate Manasquan's requirements into the County GIS system. Manasquan is in the process of appointing a part-time Hazard Mitigation Coordinator position to provide the necessary administrative capabilities required.</b></p>				



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
**Capability Assessment Update**

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**
- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

**Marlboro Township has assumed control of the Marlboro Township Municipal Utilities Authority, giving the Township control of water fees for approximately 60% of the Township.**

**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at anna.foley@urs.com by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name: \_\_ROBERT MILLER**

**Title: \_\_DEPUTY EMERGENCY MANAGEMENT COORDINATOR**

**Representing: \_\_MARLBORO TOWNSHIP**

**Email and Phone: \_\_BMILLER@MARLBORO-NJ.GOV      CELL PHONE 732-513-7897**

**Table 4-1 (continued)  
Jurisdictional Legal and Regulatory Capabilities**

Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Marlboro Township		√	√	√	√	√	√	√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	√			
Middletown Township		√	√	√		√		√	√	√	√	√	√
Millstone Township		√	√	√		√	√	√	√	√	√	√	√
Monmouth Beach Borough	√	√	√	√		√		√		√	√		
Neptune Township	√	√	√	√	√	√	√	√	√	√			
Neptune City		√	√	√		√	√	√		√			
Ocean Township	√	√	√	√	√	√	√	√	√	√	√		√
Oceanport Borough	√	√	√	√	√	√	√	√	√	√	√		√
Red Bank Borough	√	√	√	√	√								
Roosevelt Borough													
Rumson Borough	√	√	√	√		√	√	√					
Sea Bright Borough		√	√	√		√	√			√	√		
Sea Girt Borough		√	√	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough	√	√	√	√		√	√	√	√	√	√	√	√
Shrewsbury Township													
Spring Lake Borough	√	√	√	√	√	√	√	√	√	√	√		
Spring Lake Heights Borough		√	√	√		√	√	√		√			
Tinton Falls Borough	√	√	√	√	√	√	√	√		√	√	√	
Union Beach Borough	√	√	√	√	√	√	√	√		√			
Upper Freehold Township	√	√	√	√	√	√	√	√	√	√	√	√	√
Wall Township		√	√	√	√	√	√	√	√	√	√	√	
West Long Branch Borough	√	√	√	√	√	√	√	√		√	√		√
Monmouth University										√			

**Administrative and Technical Capacity - 2009 Plan**

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√
Loch Arbour Village										
City of Long Branch	√	√		√	√	√			√	√
Manalapan Township	√	√	√	√		√			√	
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√

**Table 4-3  
Jurisdictional Fiscal Capabilities**

Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Manasquan Borough		√	√	√		√	√			
Marlboro Township	√	√	√		√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	
Middletown Township	√	√				√	√	√		
Millstone Township	√	√	√		√	√				
Monmouth Beach Borough	√	√	√			√				
Neptune Township	√	√	√	√	√	√	√			
Neptune City	√	√	√	√	√					
Ocean Township		√			√	√				
Oceanport Borough	√	√	√		√	√	√			
Red Bank Borough	√	√	√	√	√	√	√			
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	
Sea Bright Borough						√				
Sea Girt Borough	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough		√	√		√					
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√			
Spring Lake Heights Borough	√	√	√	√		√	√			
Tinton Falls Borough		√	√	√	√	√	√	√	√	√
Union Beach Borough	√	√	√	√	√	√	√			
Upper Freehold Township	√		√		√	√				
Wall Township	√	√		√		√	√			
West Long Branch Borough	√	√	√			√	√			
Monmouth University						√				

<p>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</p>
HIGH	HIGH	HIGH	HIGH	HIGH
<p>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</p>				
<p><b>GOALS &amp; OBJECTIVES ARE ESTABLISHED TO REMAIN WITHIN KNOWN CAPABILITIES AND LEGAL AUTHORITIES. ANY ISSUES REQUIRING MULTI-JURISDICTIONAL RESPONSE OR ACTION ARE DEALT WITH THROUGH THE APPROPRIATE MEMORANDUM OF UNDERSTANDING OR MEMORANDUM OF AGREEMENT AND ALL APPLICABLE RULES AND STANDARDS ARE FOLLOWED.</b></p> <p><b>SPECIFIC ISSUES ARISING ARE MANAGED ON A CASE-BY-CASE BASIS DEPENDING ON THE SEVERITY OR POTENTIAL HAZARD RELATED TO THE ISSUE. RESOLUTIONS AND EMERGENCY FUNDING CAN BE MADE AVAILABLE IN THE EVENT OF AN IMMEDIATE HAZARD. TECHNICAL GUIDANCE FOR SPECIFIC ISSUES IS AVAILABLE THROUGH OUR ENGINEERS OFFICE.</b></p>				



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)
- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name: Sergeant Thomas J. Falco**

**Representing: MATAWAN**

**Email and Phone: tfalco@matawanpolice.org (732) 290-2024**

**Table 4-1 (continued)  
Jurisdictional Legal and Regulatory Capabilities**

Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Marlboro Township		√	√	√	√	√	√	√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	√			
Middletown Township		√	√	√		√		√	√	√	√	√	√
Millstone Township		√	√	√		√	√	√	√	√	√	√	√
Monmouth Beach Borough	√	√	√	√		√		√		√	√		
Neptune Township	√	√	√	√	√	√	√	√	√	√			
Neptune City		√	√	√		√	√	√		√			
Ocean Township	√	√	√	√	√	√	√	√	√	√	√		√
Oceanport Borough	√	√	√	√	√	√	√	√	√	√	√		√
Red Bank Borough	√	√	√	√	√								
Roosevelt Borough													
Rumson Borough	√	√	√	√		√	√	√					
Sea Bright Borough		√	√	√		√	√			√	√		
Sea Girt Borough		√	√	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough	√	√	√	√		√	√	√	√	√	√	√	√
Shrewsbury Township													
Spring Lake Borough	√	√	√	√	√	√	√	√	√	√	√		
Spring Lake Heights Borough		√	√	√		√	√	√		√			
Tinton Falls Borough	√	√	√	√	√	√	√	√		√	√	√	
Union Beach Borough	√	√	√	√	√	√	√	√		√			
Upper Freehold Township	√	√	√	√	√	√	√	√	√	√	√	√	√
Wall Township		√	√	√	√	√	√	√	√	√	√	√	
West Long Branch Borough	√	√	√	√	√	√	√	√		√	√		√
Monmouth University										√			

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Monmouth County	√	√	√		√	√	√		√	√
Aberdeen Township	√	√	√	√	√	√	√		√	
Allenhurst Borough	√	√	√		√	√			√	√
Allentown Borough		√	√						√	√
City of Asbury Park	√	√	√	√	√	√	√		√	√
Atlantic Highlands Borough	√	√	√		√	√	√		√	√
Avon-by-the-Sea Borough	√	√	√	√	√	√		√	√	√
Belmar Borough	√	√	√		√	√			√	√
Bradley Beach Borough	√	√		√		√			√	
Brielle Borough	√	√	√	√	√				√	√
Colts Neck Township	√	√	√						√	
Deal Borough	√	√			√				√	√
Eatontown Borough	√	√	√		√	√	√		√	
Englishtown Borough										
Fair Haven Borough	√	√							√	√
Farmingdale Borough	√					√			√	
Freehold Borough		√				√			√	√
Freehold Township	√	√	√		√	√	√	√	√	
Hazlet Township	√	√	√			√			√	
Highlands Borough	√	√	√			√	√		√	
Holmdel Township	√	√	√	√	√	√		√	√	√
Howell Township	√	√	√	√		√	√		√	
Interlaken Borough		√							√	
Keansburg Borough	√	√	√	√	√	√	√	√	√	√
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√
Loch Arbour Village										
City of Long Branch	√	√		√	√	√			√	√
Manalapan Township	√	√	√	√		√			√	
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√
Matawan Borough	√	√	√	√	√	√	√		√	√
Middletown Township	√	√	√	√	√	√	√	√	√	√

**Table 4-3  
Jurisdictional Fiscal Capabilities**

Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Matawan Borough	√	√	√	√	√	√	√	√	√	
Middletown Township	√	√				√	√	√		
Millstone Township	√	√	√		√	√				
Monmouth Beach Borough	√	√	√			√				
Neptune Township	√	√	√	√	√	√	√			
Neptune City	√	√	√	√	√					
Ocean Township		√			√	√				
Oceanport Borough	√	√	√		√	√	√			
Red Bank Borough	√	√	√	√	√	√	√			
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	
Sea Bright Borough						√				
Sea Girt Borough	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough		√	√		√					
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√			
Spring Lake Heights Borough	√	√	√	√		√	√			
Tinton Falls Borough		√	√	√	√	√	√	√	√	√
Union Beach Borough	√	√	√	√	√	√	√			
Upper Freehold Township	√		√		√	√				
Wall Township	√	√		√		√	√			
West Long Branch Borough	√	√	√			√	√			
Monmouth University						√				

Municipality: Matawan Borough

<p><b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b></p>
<p><b>Moderate</b></p>	<p><b>Moderate</b></p>	<p><b>Low</b></p>	<p><b>High</b></p>	<p><b>High</b></p>
<p><b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b></p>				
<p><b>To increase the Borough of Matawan's regulatory capabilities to ensure that they are in line with our mitigation actions and goals, the Borough may need to review the current municipal ordinances and determine what, if any, changes should be made.</b></p> <p><b>To increase the Borough's technical capabilities to implement hazard mitigation strategies, the Borough may need to review their current staffing and determine if more full-time dedicated personnel would benefit such an implementation.</b></p> <p><b>To increase the Borough's fiscal capabilities, the Borough may need to dedicate an individual or individuals solely to the grant writing process. Being a small, mostly residential community with a high tax rate, Matawan does not have the ratables as many larger towns.</b></p>				



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Capability Assessment Update*

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Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**
- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

**Note: Table 4-1. The township does not have a Real Estate Disclosure Ordinance. However, there is state law under which the municipality is covered**

**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name: Charles W. Rogers III**

**Title OEM Coordinator**

**Representing: Middletown Township**

**Email and Phone: 732-615-2129, [crogers@middletownnj.org](mailto:crogers@middletownnj.org)**

**Table 4-1 (continued)  
Jurisdictional Legal and Regulatory Capabilities**

Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Marlboro Township		√	√	√	√	√	√	√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	√			
Middletown Township	✘	√	√	✘		√	✘	√	√	√	√	✘	✘
Millstone Township		√	√	√		√	√	√	√	√	√	√	√
Monmouth Beach Borough	√	√	√	√		√		√		√	√		
Neptune Township	√	√	√	√	√	√	√	√	√	√			
Neptune City		√	√	√		√	√	√		√			
Ocean Township	√	√	√	√	√	√	√	√	√	√	√		√
Oceanport Borough	√	√	√	√	√	√	√	√	√	√	√		√
Red Bank Borough	√	√	√	√	√								
Roosevelt Borough													
Rumson Borough	√	√	√	√		√	√	√					
Sea Bright Borough		√	√	√		√	√			√	√		
Sea Girt Borough		√	√	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough	√	√	√	√		√	√	√	√	√	√	√	√
Shrewsbury Township													
Spring Lake Borough	√	√	√	√	√	√	√	√	√	√	√		
Spring Lake Heights Borough		√	√	√		√	√	√		√			
Tinton Falls Borough	√	√	√	√	√	√	√	√		√	√	√	
Union Beach Borough	√	√	√	√	√	√	√	√		√			
Upper Freehold Township	√	√	√	√	√	√	√	√	√	√	√	√	√
Wall Township		√	√	√	√	√	√	√	√	√	√	√	
West Long Branch Borough	√	√	√	√	√	√	√	√		√	√		√
Monmouth University										√			

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Matawan Borough	√	√	√			√			√	√
Middletown Township	√	√	√	√	√	√	√	√	√	√
Millstone Township	√	√	√	√	√	√	√		√	√
Monmouth Beach Borough	√	√	√	√	√	√	√		√	√
Neptune Township	√	√	√			√	√		√	√
Neptune City	√	√					√		√	
Ocean Township	√	√	√	√	√	√	√		√	√
Oceanport Borough	√	√	√		√				√	√
Red Bank Borough	√	√	√	√	√	√	√	√	√	√
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	√
Sea Bright Borough	√	√	√		√			√	√	√
Sea Girt Borough	√	√	√	√	√	√		√	√	√
Shrewsbury Borough	√	√	√	√	√		√		√	√
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√	√	√	√
Spring Lake Heights Borough	√	√	√		√	√			√	
Tinton Falls Borough	√	√	√			√			√	
Union Beach Borough	√	√	√	√	√	√	√	√	√	√
Upper Freehold Township	√	√	√	√	√	√	√		√	
Wall Township	√	√	√	√	√	√	√		√	√
West Long Branch Borough	√	√	√		√				√	√
Monmouth University	√	√	√							√

**Table 4-3  
Jurisdictional Fiscal Capabilities**

Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Manasquan Borough		√	√	√		√	√			
Marlboro Township	√	√	√		√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	
Middletown Township	√	√			×	√	√	√		
Millstone Township	√	√	√		√	√				
Monmouth Beach Borough	√	√	√			√				
Neptune Township	√	√	√	√	√	√	√			
Neptune City	√	√	√	√	√					
Ocean Township		√			√	√				
Oceanport Borough	√	√	√		√	√	√			
Red Bank Borough	√	√	√	√	√	√	√			
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	
Sea Bright Borough						√				
Sea Girt Borough	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough		√	√		√					
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√			
Spring Lake Heights Borough	√	√	√	√		√	√			
Tinton Falls Borough		√	√	√	√	√	√	√	√	√
Union Beach Borough	√	√	√	√	√	√	√			
Upper Freehold Township	√		√		√	√				
Wall Township	√	√		√		√	√			
West Long Branch Borough	√	√	√			√	√			
Monmouth University						√				

Municipality \_\_\_\_\_

<p><b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b></p>
<p>High</p>	<p>High</p>	<p>Moderate</p>	<p>High</p>	<p>High</p>
<p><b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b></p>				
<p>Identified gaps are lack of funding and sufficient staff. Ways of bridging gaps include seeking grant funding, shared service agreements with other municipalities, public-private partnerships, and technical assistance programs from other levels of government.</p>				



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**
- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name: Michael Kuczinski**

**Title: OEM Coordinator**

**Representing: Millstone Township**

**Email and Phone: [m-kuczinski@millstone.nj.us](mailto:m-kuczinski@millstone.nj.us) / 732-895-3802**

**Table 4-1 (continued)  
Jurisdictional Legal and Regulatory Capabilities**

Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Marlboro Township		√	√	√	√	√	√	√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	√			
Middletown Township		√	√	√		√		√	√	√	√	√	√
Millstone Township		√	√	√		√	√	√	√	√	√	√	√
Monmouth Beach Borough	√	√	√	√		√		√		√	√		
Neptune Township	√	√	√	√	√	√	√	√	√	√			
Neptune City		√	√	√		√	√	√		√			
Ocean Township	√	√	√	√	√	√	√	√	√	√	√		√
Oceanport Borough	√	√	√	√	√	√	√	√	√	√	√		√
Red Bank Borough	√	√	√	√	√								
Roosevelt Borough													
Rumson Borough	√	√	√	√		√	√	√					
Sea Bright Borough		√	√	√		√	√			√	√		
Sea Girt Borough		√	√	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough	√	√	√	√		√	√	√	√	√	√	√	√
Shrewsbury Township													
Spring Lake Borough	√	√	√	√	√	√	√	√	√	√	√		
Spring Lake Heights Borough		√	√	√		√	√	√		√			
Tinton Falls Borough	√	√	√	√	√	√	√	√		√	√	√	
Union Beach Borough	√	√	√	√	√	√	√	√		√			
Upper Freehold Township	√	√	√	√	√	√	√	√	√	√	√	√	√
Wall Township		√	√	√	√	√	√	√	√	√	√	√	
West Long Branch Borough	√	√	√	√	√	√	√	√		√	√		√
Monmouth University										√			

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Matawan Borough	√	√	√			√			√	√
Middletown Township	√	√	√	√	√	√	√	√	√	√
Millstone Township	√	√	√	√	√	√	√		√	√
Monmouth Beach Borough	√	√	√	√	√	√	√		√	√
Neptune Township	√	√	√			√	√		√	√
Neptune City	√	√					√		√	
Ocean Township	√	√	√	√	√	√	√		√	√
Oceanport Borough	√	√	√		√				√	√
Red Bank Borough	√	√	√	√	√	√	√	√	√	√
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	√
Sea Bright Borough	√	√	√		√			√	√	√
Sea Girt Borough	√	√	√	√	√	√		√	√	√
Shrewsbury Borough	√	√	√	√	√		√		√	√
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√	√	√	√
Spring Lake Heights Borough	√	√	√		√	√			√	
Tinton Falls Borough	√	√	√			√			√	
Union Beach Borough	√	√	√	√	√	√	√	√	√	√
Upper Freehold Township	√	√	√	√	√	√	√		√	
Wall Township	√	√	√	√	√	√	√		√	√
West Long Branch Borough	√	√	√		√				√	√
Monmouth University	√	√	√							√

**Table 4-3  
Jurisdictional Fiscal Capabilities**

Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Manasquan Borough		√	√	√		√	√			
Marlboro Township	√	√	√		√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	
Middletown Township	√	√				√	√	√		
Millstone Township	√	√	√		√	√				
Monmouth Beach Borough	√	√	√			√				
Neptune Township	√	√	√	√	√	√	√			
Neptune City	√	√	√	√	√					
Ocean Township		√			√	√				
Oceanport Borough	√	√	√		√	√	√			
Red Bank Borough	√	√	√	√	√	√	√			
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	
Sea Bright Borough						√				
Sea Girt Borough	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough		√	√		√					
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√			
Spring Lake Heights Borough	√	√	√	√		√	√			
Tinton Falls Borough		√	√	√	√	√	√	√	√	√
Union Beach Borough	√	√	√	√	√	√	√			
Upper Freehold Township	√		√		√	√				
Wall Township	√	√		√		√	√			
West Long Branch Borough	√	√	√			√	√			
Monmouth University						√				

Municipality: Millstone Township

<p><b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b></p>
<p><b>Moderate</b></p>	<p><b>Moderate</b></p>	<p><b>Moderate</b></p>	<p><b>Moderate</b></p>	<p><b>High</b></p>
<p><b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b></p>				
<p><b>Gaps in local capabilities can be bridged to ensure that they are in-line with mitigation actions and goals by engaging municipal officials in the mitigation planning process. Funding of the mitigation plan should be reviewed on a regular basis to ensure budgeted line items are sufficient to accomplish actions and goals set forth in the plan. Communication among all officials, departments, boards and commissions identified as members of the core planning group in the mitigation plan are also vital to ensuring mitigation actions and goals are in-line with local capabilities.</b></p>				



**Table 4-1 (continued)  
Jurisdictional Legal and Regulatory Capabilities**

Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Marlboro Township		√	√	√	√	√	√	√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	√			
Middletown Township		√	√	√		√		√	√	√	√	√	√
Millstone Township		√	√	√		√	√	√	√	√	√	√	√
Monmouth Beach Borough	√	√	√	√		√		√		√	√		
Neptune Township	√	√	√	√	√	√	√	√	√	√			
Neptune City		√	√	√		√	√	√		√			
Ocean Township	√	√	√	√	√	√	√	√	√	√	√		√
Oceanport Borough	√	√	√	√	√	√	√	√	√	√	√		√
Red Bank Borough	√	√	√	√	√								
Roosevelt Borough													
Rumson Borough	√	√	√	√		√	√	√					
Sea Bright Borough		√	√	√		√	√			√	√		
Sea Girt Borough		√	√	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough	√	√	√	√		√	√	√	√	√	√	√	√
Shrewsbury Township													
Spring Lake Borough	√	√	√	√	√	√	√	√	√	√	√		
Spring Lake Heights Borough		√	√	√		√	√	√		√			
Tinton Falls Borough	√	√	√	√	√	√	√	√		√	√	√	
Union Beach Borough	√	√	√	√	√	√	√	√		√			
Upper Freehold Township	√	√	√	√	√	√	√	√	√	√	√	√	√
Wall Township		√	√	√	√	√	√	√	√	√	√	√	
West Long Branch Borough	√	√	√	√	√	√	√	√		√	√		√
Monmouth University										√			

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Matawan Borough	√	√	√			√			√	√
Middletown Township	√	√	√	√	√	√	√	√	√	√
Millstone Township	√	√	√	√	√	√	√		√	√
Monmouth Beach Borough	√	√	√	√	√	√	√		√	√
Neptune Township	√	√	√			√	√		√	√
Neptune City	√	√					√		√	
Ocean Township	√	√	√	√	√	√	√		√	√
Oceanport Borough	√	√	√		√				√	√
Red Bank Borough	√	√	√	√	√	√	√	√	√	√
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	√
Sea Bright Borough	√	√	√		√			√	√	√
Sea Girt Borough	√	√	√	√	√	√		√	√	√
Shrewsbury Borough	√	√	√	√	√		√		√	√
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√	√	√	√
Spring Lake Heights Borough	√	√	√		√	√			√	
Tinton Falls Borough	√	√	√			√			√	
Union Beach Borough	√	√	√	√	√	√	√	√	√	√
Upper Freehold Township	√	√	√	√	√	√	√		√	
Wall Township	√	√	√	√	√	√	√		√	√
West Long Branch Borough	√	√	√		√				√	√
Monmouth University	√	√	√							√

**Table 4-3  
Jurisdictional Fiscal Capabilities**

Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Manasquan Borough		√	√	√		√	√			
Marlboro Township	√	√	√		√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	
Middletown Township	√	√				√	√	√		
Millstone Township	√	√	√		√	√				
Monmouth Beach Borough	√	√	√			√				
Neptune Township	√	√	√	√	√	√	√			
Neptune City	√	√	√	√	√					
Ocean Township		√			√	√				
Oceanport Borough	√	√	√		√	√	√			
Red Bank Borough	√	√	√	√	√	√	√			
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	
Sea Bright Borough						√				
Sea Girt Borough	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough		√	√		√					
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√			
Spring Lake Heights Borough	√	√	√	√		√	√			
Tinton Falls Borough		√	√	√	√	√	√	√	√	√
Union Beach Borough	√	√	√	√	√	√	√			
Upper Freehold Township	√		√		√	√				
Wall Township	√	√		√		√	√			
West Long Branch Borough	√	√	√			√	√			
Monmouth University						√				

<p><b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b></p>
<p><b>High</b></p>	<p><b>High</b></p>	<p><b>Moderate-Low</b></p>	<p><b>High</b></p>	<p><b>High</b></p>
<p><b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b></p>				
<p><b>The Borough will seek additional grant funding to supplement fiscal gaps. The Borough is financially capable of bonding to contribute to mitigation projects. They will seek alternative measures through ordinances or fundraising (including fees/taxes to levy on developers that will be dedicated specifically to mitigation projects). The Borough has a demonstrated track record of cooperating and providing technical and legal support to large projects for the protection of its shore and, specifically, easements required for seawall and beach replenishment projects.</b></p>				



4

# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)
- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)

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Then, review and answer the supplemental questions on Page 7. Check box C.

- C) I have completed responses to the supplemental questions on Attachment Page 7.

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

Name: ROBERT TEMPLE

Title: EMERGENCY MANAGEMENT DEPUTY COORDINATOR

Representing: Borough of Neptune City

Email and Phone: btemple@firehousemail.com

Table 4-1 (continued)  
Jurisdictional Legal and Regulatory Capabilities

Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Marlboro Township		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Matawan Borough		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Middletown Township	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Millstone Township		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Monmouth Beach Borough		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Neptune Township	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Neptune City	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ocean Township	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Oceanport Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Red Bank Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Roosevelt Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Rumson Borough													
Sea Bright Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sea Girt Borough		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Shrewsbury Borough		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Shrewsbury Township	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spring Lake Borough													
Spring Lake Heights Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Tinton Falls Borough		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Union Beach Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Upper Freshhold Township	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wall Township		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
West Long Branch Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Monmouth University													

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Matawan Borough	✓	✓	✓			✓			✓	✓
Middletown Township	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Millstone Township	✓	✓	✓	✓	✓	✓	✓		✓	✓
Monmouth Beach Borough	✓	✓	✓	✓	✓	✓	✓		✓	✓
Neptune Township	✓	✓	✓			✓	✓		✓	✓
Neptune City	✓	✓	✓	✓		✓	✓		✓	
Ocean Township	✓	✓	✓	✓	✓	✓	✓		✓	✓
Oceanport Borough	✓	✓	✓		✓				✓	✓
Red Bank Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Roosevelt Borough										
Rumson Borough	✓	✓	✓	✓	✓	✓	✓		✓	✓
Sea Bright Borough	✓	✓	✓		✓			✓	✓	✓
Sea Girt Borough	✓	✓	✓	✓	✓	✓		✓	✓	✓
Shrewsbury Borough	✓	✓	✓	✓	✓		✓		✓	✓
Shrewsbury Township										
Spring Lake Borough	✓	✓	✓	✓		✓	✓	✓	✓	✓
Spring Lake Heights Borough	✓	✓	✓		✓	✓			✓	
Tinton Falls Borough	✓	✓	✓			✓			✓	
Union Beach Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Upper Freehold Township	✓	✓	✓	✓	✓	✓	✓		✓	
Wall Township	✓	✓	✓	✓	✓	✓	✓		✓	✓
West Long Branch Borough	✓	✓	✓		✓				✓	✓
Monmouth University	✓	✓	✓							✓

**Table 4-3  
Jurisdictional Fiscal Capabilities**

Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Manasquan Borough		✓	✓	✓		✓	✓			
Marlboro Township	✓	✓	✓		✓	✓	✓	✓	✓	✓
Matawan Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Middletown Township	✓	✓				✓	✓	✓		
Millstone Township	✓	✓	✓		✓	✓				
Monmouth Beach Borough	✓	✓	✓			✓				
Neptune Township	✓	✓	✓	✓	✓	✓	✓			
Neptune City	✓	✓	✓	✓	✓					
Ocean Township		✓			✓	✓				
Oceanport Borough	✓	✓	✓		✓	✓	✓			
Red Bank Borough	✓	✓	✓	✓	✓	✓	✓			
Roosevelt Borough										
Rumson Borough	✓	✓	✓	✓	✓	✓	✓		✓	
Sea Bright Borough						✓				
Sea Girt Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Shrewsbury Borough		✓	✓		✓					
Shrewsbury Township										
Spring Lake Borough	✓	✓	✓	✓		✓	✓			
Spring Lake Heights Borough	✓	✓	✓	✓		✓	✓			
Tinton Falls Borough		✓	✓	✓	✓	✓	✓	✓	✓	✓
Union Beach Borough	✓	✓	✓	✓	✓	✓	✓			
Upper Freehold Township	✓		✓		✓	✓				
Wall Township	✓	✓		✓		✓	✓			
West Long Branch Borough	✓	✓	✓			✓	✓			
Monmouth University						✓				

Municipality Neptune City

Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your community's <u>overall technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your community's <u>overall fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your community's <u>overall administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?
moderate	high	moderate	high	high
Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.				
<p>The City Council could enact an ordinance for Post-disaster Recovery + establish a post-disaster recovery plan in conjunction with the ordinance. We could also establish an Economic Development plan. To help us with our fiscal capability, we need to pursue more grants and also possibly look into Bonds.</p>				



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Capability Assessment Update*

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Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**
- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** Michael Bascom

**Title:** CFO/OEM Coordinator

**Representing:** Neptune Township

**Email and Phone:** mbascom@neptunetownship.org/732 988 5200 x 241

NEPTUNE TOWNSHIP

Manalapan Township	√	√	√	√	√	√	√	√	√	√	√	√	√
Manasquan Borough	√	√	√	√		√	√	√		√	√	√	√

**Table 4-1 (continued)  
Jurisdictional Legal and Regulatory Capabilities**

Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Marlboro Township		√	√	√	√	√	√	√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	√			
Middletown Township		√	√	√		√		√	√	√	√	√	√
Millstone Township		√	√	√		√	√	√	√	√	√	√	√
Monmouth Beach Borough	√	√	√	√		√		√		√	√		
Neptune Township	√	√	√	√	√	√	√	√	√	√			
Neptune City		√	√	√		√	√	√		√			
Ocean Township	√	√	√	√	√	√	√	√	√	√	√		√
Oceanport Borough	√	√	√	√	√	√	√	√	√	√	√		√
Red Bank Borough	√	√	√	√	√								
Roosevelt Borough													
Rumson Borough	√	√	√	√		√	√	√					
Sea Bright Borough		√	√	√		√	√			√	√		
Sea Girt Borough		√	√	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough	√	√	√	√		√	√	√	√	√	√	√	√
Shrewsbury Township													
Spring Lake Borough	√	√	√	√	√	√	√	√	√	√	√		
Spring Lake Heights Borough		√	√	√		√	√	√		√			
Tinton Falls Borough	√	√	√	√	√	√	√	√		√	√	√	
Union Beach Borough	√	√	√	√	√	√	√	√		√			
Upper Freehold Township	√	√	√	√	√	√	√	√	√	√	√	√	√
Wall Township		√	√	√	√	√	√	√	√	√	√	√	
West Long Branch Borough	√	√	√	√	√	√	√	√		√	√		√
Monmouth University										√			

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√
Matawan Borough	√	√	√			√			√	√
Middletown Township	√	√	√	√	√	√	√	√	√	√
Millstone Township	√	√	√	√	√	√	√		√	√
Monmouth Beach Borough	√	√	√	√	√	√	√		√	√
Neptune Township	√	√	√	x	x	√	√	x	√	√
Neptune City	√	√					√		√	
Ocean Township	√	√	√	√	√	√	√		√	√
Oceanport Borough	√	√	√		√				√	√
Red Bank Borough	√	√	√	√	√	√	√	√	√	√
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	√
Sea Bright Borough	√	√	√		√			√	√	√
Sea Girt Borough	√	√	√	√	√	√		√	√	√
Shrewsbury Borough	√	√	√	√	√		√		√	√
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√	√	√	√
Spring Lake Heights Borough	√	√	√		√	√			√	
Tinton Falls Borough	√	√	√			√			√	
Union Beach Borough	√	√	√	√	√	√	√	√	√	√
Upper Freehold Township	√	√	√	√	√	√	√		√	
Wall Township	√	√	√	√	√	√	√		√	√
West Long Branch Borough	√	√	√		√				√	√
Monmouth University	√	√	√							√

**Table 4-3  
Jurisdictional Fiscal Capabilities**

Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
City of Long Branch	√	√			√	√				
Manalapan Township	√	√	√			√	√			
Manasquan Borough		√	√	√		√	√			
Marlboro Township	√	√	√		√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	
Middletown Township	√	√				√	√	√		
Millstone Township	√	√	√		√	√				
Monmouth Beach Borough	√	√	√			√				
Neptune Township	√	√	√	√	√	√	√	x		
Neptune City	√	√	√	√	√					
Ocean Township		√			√	√				
Oceanport Borough	√	√	√		√	√	√			
Red Bank Borough	√	√	√	√	√	√	√			
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	
Sea Bright Borough						√				
Sea Girt Borough	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough		√	√		√					
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√			
Spring Lake Heights Borough	√	√	√	√		√	√			
Tinton Falls Borough		√	√	√	√	√	√	√	√	√
Union Beach Borough	√	√	√	√	√	√	√			
Upper Freehold Township	√		√		√	√				
Wall Township	√	√		√		√	√			
West Long Branch Borough	√	√	√			√	√			
Monmouth University						√				

<p><b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b></p>
<p><b>High</b></p>	<p><b>High</b></p>	<p><b>Moderate</b></p>	<p><b>High</b></p>	<p><b>Moderate</b></p>

**Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.**

**In order to bridge the gaps in certain categories above, the Township of Neptune committee would have to review the Hazard Mitigation Plan and those yet unfunded initiatives. Additional grant monies would need to be applied for or capitol monies set aside to meet some of the implementation goals of the Township.**

**With respect to policies and programs to reduce hazards vulnerabilities in the community the Township is working toward minimizing the gap by moving forward with a new classification in the CRS Program. This will result in more review and permitting of and regulated activities in the special Flood Hazard Area.**



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**
- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

See below charts

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

Name: Tom Caruso

Title: Director of Emergency Management

Representing: Ocean Twp

Email and Phone: tcaruso@oceantwp.org // 732-531-5000 x3378

**Table 4-1 (continued)  
Jurisdictional Legal and Regulatory Capabilities**

Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Marlboro Township		√	√	√	√	√	√	√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	√			
Middletown Township		√	√	√		√		√	√	√	√	√	√
Millstone Township		√	√	√		√	√	√	√	√	√	√	√
Monmouth Beach Borough	√	√	√	√		√		√		√	√		
Neptune Township	√	√	√	√	√	√	√	√	√	√			
Neptune City		√	√	√		√	√	√		√			
Ocean Township	√	√	√	√	√	√	√	√	√	√	√		√
Oceanport Borough	√	√	√	√	√	√	√	√	√	√	√		√
Red Bank Borough	√	√	√	√	√								
Roosevelt Borough													
Rumson Borough	√	√	√	√		√	√	√					
Sea Bright Borough		√	√	√		√	√			√	√		
Sea Girt Borough		√	√	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough	√	√	√	√		√	√	√	√	√	√	√	√
Shrewsbury Township													
Spring Lake Borough	√	√	√	√	√	√	√	√	√	√	√		
Spring Lake Heights Borough		√	√	√		√	√	√		√			
Tinton Falls Borough	√	√	√	√	√	√	√	√		√	√	√	
Union Beach Borough	√	√	√	√	√	√	√	√		√			
Upper Freehold Township	√	√	√	√	√	√	√	√	√	√	√	√	√
Wall Township		√	√	√	√	√	√	√	√	√	√	√	
West Long Branch Borough	√	√	√	√	√	√	√	√		√	√		√
Monmouth University										√			

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Matawan Borough	√	√	√			√			√	√
Middletown Township	√	√	√	√	√	√	√	√	√	√
Millstone Township	√	√	√	√	√	√	√		√	√
Monmouth Beach Borough	√	√	√	√	√	√	√		√	√
Neptune Township	√	√	√			√	√		√	√
Neptune City	√	√					√		√	
Ocean Township	√	√	√	√	√	√	√		√	√
Oceanport Borough	√	√	√		√				√	√
Red Bank Borough	√	√	√	√	√	√	√	√	√	√
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	√
Sea Bright Borough	√	√	√		√			√	√	√
Sea Girt Borough	√	√	√	√	√	√		√	√	√
Shrewsbury Borough	√	√	√	√	√		√		√	√
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√	√	√	√
Spring Lake Heights Borough	√	√	√		√	√			√	
Tinton Falls Borough	√	√	√			√			√	
Union Beach Borough	√	√	√	√	√	√	√	√	√	√
Upper Freehold Township	√	√	√	√	√	√	√		√	
Wall Township	√	√	√	√	√	√	√		√	√
West Long Branch Borough	√	√	√		√				√	√
Monmouth University	√	√	√							√

**Table 4-3  
Jurisdictional Fiscal Capabilities**

Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Manasquan Borough		√	√	√		√	√			
Marlboro Township	√	√	√		√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	
Middletown Township	√	√				√	√	√		
Millstone Township	√	√	√		√	√				
Monmouth Beach Borough	√	√	√			√				
Neptune Township	√	√	√	√	√	√	√			
Neptune City	√	√	√	√	√					
Ocean Township	√	√		√	√	√				
Oceanport Borough	√	√	√		√	√	√			
Red Bank Borough	√	√	√	√	√	√	√			
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	
Sea Bright Borough						√				
Sea Girt Borough	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough		√	√		√					
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√			
Spring Lake Heights Borough	√	√	√	√		√	√			
Tinton Falls Borough		√	√	√	√	√	√	√	√	√
Union Beach Borough	√	√	√	√	√	√	√			
Upper Freehold Township	√		√		√	√				
Wall Township	√	√		√		√	√			
West Long Branch Borough	√	√	√			√	√			
Monmouth University						√				

<b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b>
moderate	moderate	low	moderate	high
<b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b>				
Looking to update and change ordinances for land development and to try to obtain more grants.				



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Capability Assessment Update*

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Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**
- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

**Post Disaster Recovery-PR- Items is presently under review; Floodplain**

**Manager- PR-R- presently under review for resolution appointment**

**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name: \_Mauro V, Baldanza**

**Title: \_OEM Coordinator**

**Representing: \_Boro of Oceanport**

**Email and Phone: \_\_OPD415@verizon.net 732-904-0520**

**Table 4-1 (continued)  
Jurisdictional Legal and Regulatory Capabilities**

Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Marlboro Township		√	√	√	√	√	√	√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	√			
Middletown Township		√	√	√		√		√	√	√	√	√	√
Millstone Township		√	√	√		√	√	√	√	√	√	√	√
Monmouth Beach Borough	√	√	√	√		√		√		√	√		
Neptune Township	√	√	√	√	√	√	√	√	√	√			
Neptune City		√	√	√		√	√	√		√			
Ocean Township	√	√	√	√	√	√	√	√	√	√	√		√
Oceanport Borough	√	√	√	√	√	√	√	√	√	√	√	PR	√
Red Bank Borough	√	√	√	√	√								
Roosevelt Borough													
Rumson Borough	√	√	√	√		√	√	√					
Sea Bright Borough		√	√	√		√	√			√	√		
Sea Girt Borough		√	√	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough	√	√	√	√		√	√	√	√	√	√	√	√
Shrewsbury Township													
Spring Lake Borough	√	√	√	√	√	√	√	√	√	√	√		
Spring Lake Heights Borough		√	√	√		√	√	√		√			
Tinton Falls Borough	√	√	√	√	√	√	√	√		√	√	√	
Union Beach Borough	√	√	√	√	√	√	√	√		√			
Upper Freehold Township	√	√	√	√	√	√	√	√	√	√	√	√	√
Wall Township		√	√	√	√	√	√	√	√	√	√	√	
West Long Branch Borough	√	√	√	√	√	√	√	√		√	√		√
Monmouth University										√			

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Matawan Borough	√	√	√			√			√	√
Middletown Township	√	√	√	√	√	√	√	√	√	√
Millstone Township	√	√	√	√	√	√	√		√	√
Monmouth Beach Borough	√	√	√	√	√	√	√		√	√
Neptune Township	√	√	√			√	√		√	√
Neptune City	√	√					√		√	
Ocean Township	√	√	√	√	√	√	√		√	√
Oceanport Borough	√	√	√	PR-R	√	Yes	Yes	Yes	√	√
Red Bank Borough	√	√	√	√	√	√	√	√	√	√
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	√
Sea Bright Borough	√	√	√		√			√	√	√
Sea Girt Borough	√	√	√	√	√	√		√	√	√
Shrewsbury Borough	√	√	√	√	√		√		√	√
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√	√	√	√
Spring Lake Heights Borough	√	√	√		√	√			√	
Tinton Falls Borough	√	√	√			√			√	
Union Beach Borough	√	√	√	√	√	√	√	√	√	√
Upper Freehold Township	√	√	√	√	√	√	√		√	
Wall Township	√	√	√	√	√	√	√		√	√
West Long Branch Borough	√	√	√		√				√	√
Monmouth University	√	√	√							√

**Table 4-3  
Jurisdictional Fiscal Capabilities**

Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Manasquan Borough		√	√	√		√	√			
Marlboro Township	√	√	√		√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	
Middletown Township	√	√				√	√	√		
Millstone Township	√	√	√		√	√				
Monmouth Beach Borough	√	√	√			√				
Neptune Township	√	√	√	√	√	√	√			
Neptune City	√	√	√	√	√					
Ocean Township		√			√	√				
Oceanport Borough	√	√	√		√	√	√			
Red Bank Borough	√	√	√	√	√	√	√			
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	
Sea Bright Borough						√				
Sea Girt Borough	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough		√	√		√					
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√			
Spring Lake Heights Borough	√	√	√	√		√	√			
Tinton Falls Borough		√	√	√	√	√	√	√	√	√
Union Beach Borough	√	√	√	√	√	√	√			
Upper Freehold Township	√		√		√	√				
Wall Township	√	√		√		√	√			
West Long Branch Borough	√	√	√			√	√			
Monmouth University						√				

Municipality \_\_\_\_\_

<p><b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b></p>
<p><b>High</b></p>	<p><b>High</b></p>	<p><b>Moderate</b></p>	<p><b>High</b></p>	<p><b>High</b></p>
<p><b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b></p>				
<p><b>Funding to do projects and manpower to manage the project</b></p>				



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

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Then, review and answer the supplemental questions on Page 7. Check box C.

- C) I have completed responses to the supplemental questions on Attachment Page 7.

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

Name: Thomas J Welsh

Title: OEM Coordinator

Representing: Borough of Red Bank

Email and Phone: twelsh@redbanknj.org 732-909-6865

**Table 4-1 (continued)  
Jurisdictional Legal and Regulatory Capabilities**

Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Marlboro Township		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Matawan Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Middletown Township		✓	✓	✓		✓		✓	✓	✓	✓	✓	✓
Millstone Township		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
Monmouth Beach Borough	✓	✓	✓	✓		✓		✓		✓	✓		
Neptune Township	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Neptune City		✓	✓	✓		✓	✓	✓		✓			
Ocean Township	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
Oceanport Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
Red Bank Borough	✓	✓	✓	✓	✓	✓	✓	✓		✓			
Roosevelt Borough													
Rumson Borough	✓	✓	✓	✓		✓	✓	✓					
Sea Bright Borough		✓	✓	✓		✓	✓			✓	✓		
Sea Girt Borough		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Shrewsbury Borough	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
Shrewsbury Township													
Spring Lake Borough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Spring Lake Heights Borough		✓	✓	✓		✓	✓	✓		✓			
Tinton Falls Borough	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	
Union Beach Borough	✓	✓	✓	✓	✓	✓	✓	✓		✓			
Upper Freehold Township	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wall Township		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
West Long Branch Borough	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
Monmouth University										✓			

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Marawan Borough	√	√	√			√			√	√
Middletown Township	√	√	√	√	√	√	√	√	√	√
Millstone Township	√	√	√	√	√	√	√		√	√
Monmouth Beach Borough	√	√	√	√	√	√	√		√	√
Neptune Township	√	√	√			√	√		√	√
Neptune City	√	√					√		√	
Ocean Township	√	√	√	√	√	√	√		√	√
Oceanport Borough	√	√	√		√				√	√
Red Bank Borough	√	√	√	√	√	√	√	√	√	√
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	√
Sea Bright Borough	√	√	√		√			√	√	√
Sea Girt Borough	√	√	√	√	√	√		√	√	√
Shrewsbury Borough	√	√	√	√	√		√		√	√
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√	√	√	√
Spring Lake Heights Borough	√	√	√		√	√			√	
Tinton Falls Borough	√	√	√			√			√	
Union Beach Borough	√	√	√	√	√	√	√	√	√	√
Upper Freehold Township	√	√	√	√	√	√	√		√	
Wall Township	√	√	√	√	√	√	√		√	√
West Long Branch Borough	√	√	√		√				√	√
Monmouth University	√	√	√							√

**Table 4-3  
Jurisdictional Fiscal Capabilities**

Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Manasquan Borough		√	√	√		√	√			
Marlboro Township	√	√	√		√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	
Middletown Township	√	√				√	√	√		
Millstone Township	√	√	√		√	√				
Monmouth Beach Borough	√	√	√			√				
Neptune Township	√	√	√	√	√	√	√			
Neptune City	√	√	√	√	√					
Ocean Township		√			√	√				
Oceanport Borough	√	√	√		√	√	√			
Red Bank Borough	√	√	√	√	√	√	√			
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	
Sea Bright Borough						√				
Sea Girt Borough	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough		√	√		√					
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√			
Spring Lake Heights Borough	√	√	√	√		√	√			
Tinton Falls Borough		√	√	√	√	√	√	√	√	√
Union Beach Borough	√	√	√	√	√	√	√			
Upper Freehold Township	√		√		√	√				
Wall Township	√	√		√		√	√			
West Long Branch Borough	√	√	√			√	√			
Monmouth University						√				

<p>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</p>
High	moderate	moderate	High	High
<p>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</p>				
<p>The Red Bank Mitigation action plan will be an added agenda item to our quarterly OEM committee meetings so it is discussed, and reported on so that all involved are aware of the mitigation strategy.</p> <p>Also, reporting the current status of the mitigation goals at monthly department head meetings will allow for constant and open communication among Red Bank officials.</p> <p>Meeting minutes will be submitted to the elected liaison for reporting at the bi-monthly Town Council meeting that follows ensuring that Red Bank officials as well as the public are aware of the mitigation strategy.</p>				



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

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**A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

**C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** Ralph Warnick and Michael L. Ticktin

**Title:** Councilmen

**Representing:** Borough of Roosevelt

**Email and Phone:** [MTicktin@aol.com](mailto:MTicktin@aol.com) 609-947-0491; [Ralphwarnick@comcast.net](mailto:Ralphwarnick@comcast.net) 609-490-0702

**Table 4-1 (continued)  
Jurisdictional Legal and Regulatory Capabilities**

Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Marlboro Township		√	√	√	√	√	√	√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	√			
Middletown Township		√	√	√		√		√	√	√	√	√	√
Millstone Township		√	√	√		√	√	√	√	√	√	√	√
Monmouth Beach Borough	√	√	√	√		√		√		√	√		
Neptune Township	√	√	√	√	√	√	√	√	√	√			
Neptune City		√	√	√		√	√	√		√			
Ocean Township	√	√	√	√	√	√	√	√	√	√	√		√
Oceanport Borough	√	√	√	√	√	√	√	√	√	√	√		√
Red Bank Borough	√	√	√	√	√								
Roosevelt Borough		x	x			x	x			x	x		
Rumson Borough	√	√	√	√		√	√	√					
Sea Bright Borough		√	√	√		√	√			√	√		
Sea Girt Borough		√	√	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough	√	√	√	√		√	√	√	√	√	√	√	√
Shrewsbury Township													
Spring Lake Borough	√	√	√	√	√	√	√	√	√	√	√		
Spring Lake Heights Borough		√	√	√		√	√	√		√			
Tinton Falls Borough	√	√	√	√	√	√	√	√		√	√	√	
Union Beach Borough	√	√	√	√	√	√	√	√		√			
Upper Freehold Township	√	√	√	√	√	√	√	√	√	√	√	√	√
Wall Township		√	√	√	√	√	√	√	√	√	√	√	
West Long Branch Borough	√	√	√	√	√	√	√	√		√	√		√
Monmouth University										√			

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Matawan Borough	√	√	√			√			√	√
Middletown Township	√	√	√	√	√	√	√	√	√	√
Millstone Township	√	√	√	√	√	√	√		√	√
Monmouth Beach Borough	√	√	√	√	√	√	√		√	√
Neptune Township	√	√	√			√	√		√	√
Neptune City	√	√					√		√	
Ocean Township	√	√	√	√	√	√	√		√	√
Oceanport Borough	√	√	√		√				√	√
Red Bank Borough	√	√	√	√	√	√	√	√	√	√
Roosevelt Borough	x	x	X						x	
Rumson Borough	√	√	√	√	√	√	√		√	√
Sea Bright Borough	√	√	√		√			√	√	√
Sea Girt Borough	√	√	√	√	√	√		√	√	√
Shrewsbury Borough	√	√	√	√	√		√		√	√
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√	√	√	√
Spring Lake Heights Borough	√	√	√		√	√			√	
Tinton Falls Borough	√	√	√			√			√	
Union Beach Borough	√	√	√	√	√	√	√	√	√	√
Upper Freehold Township	√	√	√	√	√	√	√		√	
Wall Township	√	√	√	√	√	√	√		√	√
West Long Branch Borough	√	√	√		√				√	√
Monmouth University	√	√	√							√

**Table 4-3  
Jurisdictional Fiscal Capabilities**

<b>Jurisdiction</b>	<b>Community Development Block Grants (CDBG)</b>	<b>Capital Improvements Project Funding</b>	<b>Authority to Levy Taxes for Specific Purposes</b>	<b>Fees for Water, Sewer, Gas, or Electric Service</b>	<b>Impact Fees for Homebuyers or Developers for New Developments/Homes</b>	<b>Incur Debt through General Obligation Funds</b>	<b>Incur Debt through Special Tax and Revenue Bonds</b>	<b>Incur Debt through Private Activity Bonds</b>	<b>Withhold Spending in Hazard-Prone Areas</b>	<b>Other</b>
Manasquan Borough		√	√	√		√	√			
Marlboro Township	√	√	√		√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	
Middletown Township	√	√				√	√	√		
Millstone Township	√	√	√		√	√				
Monmouth Beach Borough	√	√	√			√				
Neptune Township	√	√	√	√	√	√	√			
Neptune City	√	√	√	√	√					
Ocean Township		√			√	√				
Oceanport Borough	√	√	√		√	√	√			
Red Bank Borough	√	√	√	√	√	√	√			
Roosevelt Borough				x		x				
Rumson Borough	√	√	√	√	√	√	√		√	
Sea Bright Borough						√				
Sea Girt Borough	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough		√	√		√					
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√			
Spring Lake Heights Borough	√	√	√	√		√	√			
Tinton Falls Borough		√	√	√	√	√	√	√	√	√
Union Beach Borough	√	√	√	√	√	√	√			
Upper Freehold Township	√		√		√	√				
Wall Township	√	√		√		√	√			
West Long Branch Borough	√	√	√			√	√			
Monmouth University						√				

<b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b>
moderate	moderate	low	low	high
<b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b>				
<p>I don't know what gaps we have that we are able to mitigate. Ours is a small municipality with very limited resources. We do the best we can to mobilize volunteers to deal with emergencies and hire contractors as needed.</p>				



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

Name: Thomas Rogers

Title: Administrator

Representing: Rumson

Email and Phone: trogers@rumsonnj.gov 732-842-3300

**Table 4-1 (continued)  
Jurisdictional Legal and Regulatory Capabilities**

Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Marlboro Township		√	√	√	√	√	√	√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	√			
Middletown Township		√	√	√		√		√	√	√	√	√	√
Millstone Township		√	√	√		√	√	√	√	√	√	√	√
Monmouth Beach Borough	√	√	√	√		√		√		√	√		
Neptune Township	√	√	√	√	√	√	√	√	√	√			
Neptune City		√	√	√		√	√	√		√			
Ocean Township	√	√	√	√	√	√	√	√	√	√	√		√
Oceanport Borough	√	√	√	√	√	√	√	√	√	√	√		√
Red Bank Borough	√	√	√	√	√								
Roosevelt Borough													
Rumson Borough	√	√	√	√		√	√	√		√			
Sea Bright Borough		√	√	√		√	√			√	√		
Sea Girt Borough		√	√	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough	√	√	√	√		√	√	√	√	√	√	√	√
Shrewsbury Township													
Spring Lake Borough	√	√	√	√	√	√	√	√	√	√	√		
Spring Lake Heights Borough		√	√	√		√	√	√		√			
Tinton Falls Borough	√	√	√	√	√	√	√	√		√	√	√	
Union Beach Borough	√	√	√	√	√	√	√	√		√			
Upper Freehold Township	√	√	√	√	√	√	√	√	√	√	√	√	√
Wall Township		√	√	√	√	√	√	√	√	√	√	√	
West Long Branch Borough	√	√	√	√	√	√	√	√		√	√		√
Monmouth University										√			

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Matawan Borough	√	√	√			√			√	√
Middletown Township	√	√	√	√	√	√	√	√	√	√
Millstone Township	√	√	√	√	√	√	√		√	√
Monmouth Beach Borough	√	√	√	√	√	√	√		√	√
Neptune Township	√	√	√			√	√		√	√
Neptune City	√	√					√		√	
Ocean Township	√	√	√	√	√	√	√		√	√
Oceanport Borough	√	√	√		√				√	√
Red Bank Borough	√	√	√	√	√	√	√	√	√	√
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√	√	√	√
Sea Bright Borough	√	√	√		√			√	√	√
Sea Girt Borough	√	√	√	√	√	√		√	√	√
Shrewsbury Borough	√	√	√	√	√		√		√	√
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√	√	√	√
Spring Lake Heights Borough	√	√	√		√	√			√	
Tinton Falls Borough	√	√	√			√			√	
Union Beach Borough	√	√	√	√	√	√	√	√	√	√
Upper Freehold Township	√	√	√	√	√	√	√		√	
Wall Township	√	√	√	√	√	√	√		√	√
West Long Branch Borough	√	√	√		√				√	√
Monmouth University	√	√	√							√

**Table 4-3  
Jurisdictional Fiscal Capabilities**

Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Manasquan Borough		√	√	√		√	√			
Marlboro Township	√	√	√		√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	
Middletown Township	√	√				√	√	√		
Millstone Township	√	√	√		√	√				
Monmouth Beach Borough	√	√	√			√				
Neptune Township	√	√	√	√	√	√	√			
Neptune City	√	√	√	√	√					
Ocean Township		√			√	√				
Oceanport Borough	√	√	√		√	√	√			
Red Bank Borough	√	√	√	√	√	√	√			
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	
Sea Bright Borough						√				
Sea Girt Borough	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough		√	√		√					
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√			
Spring Lake Heights Borough	√	√	√	√		√	√			
Tinton Falls Borough		√	√	√	√	√	√	√	√	√
Union Beach Borough	√	√	√	√	√	√	√			
Upper Freehold Township	√		√		√	√				
Wall Township	√	√		√		√	√			
West Long Branch Borough	√	√	√			√	√			
Monmouth University						√				

<b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b>
Moderate	High	Moderate	High	High
<b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b>				
<p>Grants and other funding would help the Borough of Rumson bridge gaps in Mitigation actions.</p>				



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Capability Assessment Update*

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Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

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- X B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

**We have established new building codes that require all building to be a minimum of two feet above the BFE as well as adjusting height to compensate for the elevation of existing structures.**

**We are also working on providing more information on items missing from items not checked off.**

**Then, review and answer the supplemental questions on Page 7. Check box C.**

- X C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name: Read Murphy**

**Title: \_\_\_OEM Cordinator\_\_\_\_\_**

**Representing: \_Borough Of Sea Bright\_\_\_\_\_**

**Email and Phone: \_\_councilmenmurphy@gmail.com 732-842-0099\_\_\_\_\_**

Manalapan Township	√	√	√	√	√	√	√	√	√	√	√	√	√
Manasquan Borough	√	√	√	√		√	√	√		√	√	√	√

**Table 4-1 (continued)  
Jurisdictional Legal and Regulatory Capabilities**

Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Marlboro Township		√	√	√	√	√	√	√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	√			
Middletown Township		√	√	√		√		√	√	√	√	√	√
Millstone Township		√	√	√		√	√	√	√	√	√	√	√
Monmouth Beach Borough	√	√	√	√		√		√		√	√		
Neptune Township	√	√	√	√	√	√	√	√	√	√			
Neptune City		√	√	√		√	√	√		√			
Ocean Township	√	√	√	√	√	√	√	√	√	√	√		√
Oceanport Borough	√	√	√	√	√	√	√	√	√	√	√		√
Red Bank Borough	√	√	√	√	√								
Roosevelt Borough													
Rumson Borough	√	√	√	√		√	√	√					
Sea Bright Borough		√	√	√		√	√			√	√		
Sea Girt Borough		√	√	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough	√	√	√	√		√	√	√	√	√	√	√	√
Shrewsbury Township													
Spring Lake Borough	√	√	√	√	√	√	√	√	√	√	√		
Spring Lake Heights Borough		√	√	√		√	√	√		√			
Tinton Falls Borough	√	√	√	√	√	√	√	√		√	√	√	
Union Beach Borough	√	√	√	√	√	√	√	√		√			
Upper Freehold Township	√	√	√	√	√	√	√	√	√	√	√	√	√
Wall Township		√	√	√	√	√	√	√	√	√	√	√	
West Long Branch Borough	√	√	√	√	√	√	√	√		√	√		√
Monmouth University										√			

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Keyport Borough	√	√	√	√	√	√	√	√	√	√
Lake Como Borough	√	√		√	√	√			√	
Little Silver Borough	√	√	√	√	√	√	√	√	√	√
Loch Arbour Village										
City of Long Branch	√	√		√	√	√			√	√
Manalapan Township	√	√	√	√		√			√	
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√
Matawan Borough	√	√	√			√			√	√
Middletown Township	√	√	√	√	√	√	√	√	√	√
Millstone Township	√	√	√	√	√	√	√		√	√
Monmouth Beach Borough	√	√	√	√	√	√	√		√	√
Neptune Township	√	√	√			√	√		√	√
Neptune City	√	√					√		√	
Ocean Township	√	√	√	√	√	√	√		√	√
Oceanport Borough	√	√	√		√				√	√
Red Bank Borough	√	√	√	√	√	√	√	√	√	√
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	√
Sea Bright Borough	√	√	√		√			√	√	√
Sea Girt Borough	√	√	√	√	√	√		√	√	√
Shrewsbury Borough	√	√	√	√	√		√		√	√
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√	√	√	√
Spring Lake Heights Borough	√	√	√		√	√			√	
Tinton Falls Borough	√	√	√			√			√	
Union Beach Borough	√	√	√	√	√	√	√	√	√	√
Upper Freehold Township	√	√	√	√	√	√	√		√	
Wall Township	√	√	√	√	√	√	√		√	√
West Long Branch Borough	√	√	√		√				√	√

**Table 4-3  
Jurisdictional Fiscal Capabilities**

Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Monmouth Beach Borough	√	√	√			√				
Neptune Township	√	√	√	√	√	√	√			
Neptune City	√	√	√	√	√					
Ocean Township		√			√	√				
Oceanport Borough	√	√	√		√	√	√			
Red Bank Borough	√	√	√	√	√	√	√			
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	
Sea Bright Borough						√				
Sea Girt Borough	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough		√	√		√					
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√			
Spring Lake Heights Borough	√	√	√	√		√	√			
Tinton Falls Borough		√	√	√	√	√	√	√	√	√
Union Beach Borough	√	√	√	√	√	√	√			
Upper Freehold Township	√		√		√	√				
Wall Township	√	√		√		√	√			
West Long Branch Borough	√	√	√			√	√			
Monmouth University						√				

Municipality Borough Of Sea Bright

<p><b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b></p>
<p>moderate</p>	<p>moderate</p>	<p>low</p>	<p>High</p>	<p>High</p>
<p><b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b></p> <p><b>Funding and community corperation is our most challaging issues. More public assistance is imparitive.</b></p>				



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Capability Assessment Update*

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Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**
- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** Tim Harmon and Peter Avakian

**Title:** Sea Girt OEM and Sea Girt Boro Engineer

**Representing:** Sea Girt Borough

**Email and Phone:** tharmon@seagirtboro.com and [lsavakian@aol.com](mailto:lsavakian@aol.com)

Manalapan Township	√	√	√	√	√	√	√	√	√	√	√	√	√
Manasquan Borough	√	√	√	√		√	√	√		√	√	√	√
<b>Table 4-1 (continued) Jurisdictional Legal and Regulatory Capabilities</b>													
Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Marlboro Township		√	√	√	√	√	√	√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	√			
Middletown Township		√	√	√		√		√	√	√	√	√	√
Millstone Township		√	√	√		√	√	√	√	√	√	√	√
Monmouth Beach Borough	√	√	√	√		√		√		√	√		
Neptune Township	√	√	√	√	√	√	√	√	√	√			
Neptune City		√	√	√		√	√	√		√			
Ocean Township	√	√	√	√	√	√	√	√	√	√	√		√
Oceanport Borough	√	√	√	√	√	√	√	√	√	√	√		√
Red Bank Borough	√	√	√	√	√								
Roosevelt Borough													
Rumson Borough	√	√	√	√		√	√	√					
Sea Bright Borough		√	√	√		√	√			√	√		
Sea Girt Borough	X	√	√	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough	√	√	√	√		√	√	√	√	√	√	√	√
Shrewsbury Township													
Spring Lake Borough	√	√	√	√	√	√	√	√	√	√	√		
Spring Lake Heights Borough		√	√	√		√	√	√		√			
Tinton Falls Borough	√	√	√	√	√	√	√	√		√	√	√	
Union Beach Borough	√	√	√	√	√	√	√	√		√			
Upper Freehold Township	√	√	√	√	√	√	√	√	√	√	√	√	√
Wall Township		√	√	√	√	√	√	√	√	√	√	√	
West Long Branch Borough	√	√	√	√	√	√	√	√		√	√		√
Monmouth University										√			

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√
Matawan Borough	√	√	√			√			√	√
Middletown Township	√	√	√	√	√	√	√	√	√	√
Millstone Township	√	√	√	√	√	√	√		√	√
Monmouth Beach Borough	√	√	√	√	√	√	√		√	√
Neptune Township	√	√	√			√	√		√	√
Neptune City	√	√					√		√	
Ocean Township	√	√	√	√	√	√	√		√	√
Oceanport Borough	√	√	√		√				√	√
Red Bank Borough	√	√	√	√	√	√	√	√	√	√
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	√
Sea Bright Borough	√	√	√		√			√	√	√
Sea Girt Borough	√	√	√	√	√	√	X	√	√	√
Shrewsbury Borough	√	√	√	√	√		√		√	√
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√	√	√	√
Spring Lake Heights Borough	√	√	√		√	√			√	
Tinton Falls Borough	√	√	√			√			√	
Union Beach Borough	√	√	√	√	√	√	√	√	√	√
Upper Freehold Township	√	√	√	√	√	√	√		√	
Wall Township	√	√	√	√	√	√	√		√	√
West Long Branch Borough	√	√	√		√				√	√
Monmouth University	√	√	√							√

**Table 4-3  
Jurisdictional Fiscal Capabilities**

Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Manalapan Township	√	√	√			√	√			
Manasquan Borough		√	√	√		√	√			
Marlboro Township	√	√	√		√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	
Middletown Township	√	√				√	√	√		
Millstone Township	√	√	√		√	√				
Monmouth Beach Borough	√	√	√			√				
Neptune Township	√	√	√	√	√	√	√			
Neptune City	√	√	√	√	√					
Ocean Township		√			√	√				
Oceanport Borough	√	√	√		√	√	√			
Red Bank Borough	√	√	√	√	√	√	√			
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	
Sea Bright Borough						√				
Sea Girt Borough	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough		√	√		√					
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√			
Spring Lake Heights Borough	√	√	√	√		√	√			
Tinton Falls Borough		√	√	√	√	√	√	√	√	√
Union Beach Borough	√	√	√	√	√	√	√			
Upper Freehold Township	√		√		√	√				
Wall Township	√	√		√		√	√			
West Long Branch Borough	√	√	√			√	√			
Monmouth University						√				

<b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b>
Moderate	Moderate	Moderate	High	High
<b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b>				
<p>After this storm – the Borough of Sea Girt, because of its mitigation plan implementation to date, fared better than most neighboring communities. We have identified 7 areas of concern for which we submitted grant applications to ensure better protection and increased mitigation of problems identified during this past storm. Funding these programs is an issue for which Sea Girt has committed its own resources and actively seeks a partnership via federal and State grant applications. We have identified weak areas within the Borough and are working to educate the public as well as present the Borough's case for improving infrastructure for these at-risk residents.</p>				



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

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- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. *(If checking box B, then please return this completed cover page and any pages with markups.)*

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** Jerzy Chojnacki \_\_\_\_\_

**Title:** OEM Coordinator \_\_\_\_\_

**Representing:** Shrewsbury Borough \_\_\_\_\_

**Email and Phone:** shrewsburyoem@yahoo.com 732 796-8331 \_\_\_\_\_

SHREWSBURY BOROUGH

Manalapan Township	√	√	√	√	√	√	√	√	√	√	√	√	√
Manasquan Borough	√	√	√	√		√	√	√		√	√	√	√
<b>Table 4-1 (continued) Jurisdictional Legal and Regulatory Capabilities</b>													
Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Marlboro Township		√	√	√	√	√	√	√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	√			
Middletown Township		√	√	√		√		√	√	√	√	√	√
Millstone Township		√	√	√		√	√	√	√	√	√	√	√
Monmouth Beach Borough	√	√	√	√		√		√		√	√		
Neptune Township	√	√	√	√	√	√	√	√	√	√			
Neptune City		√	√	√		√	√	√		√			
Ocean Township	√	√	√	√	√	√	√	√	√	√	√		√
Oceanport Borough	√	√	√	√	√	√	√	√	√	√	√		√
Red Bank Borough	√	√	√	√	√								
Roosevelt Borough													
Rumson Borough	√	√	√	√		√	√	√					
Sea Bright Borough		√	√	√		√	√			√	√		
Sea Girt Borough		√	√	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough	√	√	√	√		√	√	√	√	√	√	√	√
Shrewsbury Township													
Spring Lake Borough	√	√	√	√	√	√	√	√	√	√	√		
Spring Lake Heights Borough		√	√	√		√	√	√		√			
Tinton Falls Borough	√	√	√	√	√	√	√	√		√	√	√	
Union Beach Borough	√	√	√	√	√	√	√	√		√			
Upper Freehold Township	√	√	√	√	√	√	√	√	√	√	√	√	√
Wall Township		√	√	√	√	√	√	√	√	√	√	√	
West Long Branch Borough	√	√	√	√	√	√	√	√		√	√		√
Monmouth University										√			

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√
Matawan Borough	√	√	√			√			√	√
Middletown Township	√	√	√	√	√	√	√	√	√	√
Millstone Township	√	√	√	√	√	√	√		√	√
Monmouth Beach Borough	√	√	√	√	√	√	√		√	√
Neptune Township	√	√	√			√	√		√	√
Neptune City	√	√					√		√	
Ocean Township	√	√	√	√	√	√	√		√	√
Oceanport Borough	√	√	√		√				√	√
Red Bank Borough	√	√	√	√	√	√	√	√	√	√
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	√
Sea Bright Borough	√	√	√		√			√	√	√
Sea Girt Borough	√	√	√	√	√	√		√	√	√
Shrewsbury Borough	√	√	√	√	√	√	√		√	√
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√	√	√	√
Spring Lake Heights Borough	√	√	√		√	√			√	
Tinton Falls Borough	√	√	√			√			√	
Union Beach Borough	√	√	√	√	√	√	√	√	√	√
Upper Freehold Township	√	√	√	√	√	√	√		√	
Wall Township	√	√	√	√	√	√	√		√	√
West Long Branch Borough	√	√	√		√				√	√
Monmouth University	√	√	√							√

**Table 4-3  
Jurisdictional Fiscal Capabilities**

Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Manalapan Township	√	√	√			√	√			
Manasquan Borough		√	√	√		√	√			
Marlboro Township	√	√	√		√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	
Middletown Township	√	√				√	√	√		
Millstone Township	√	√	√		√	√				
Monmouth Beach Borough	√	√	√			√				
Neptune Township	√	√	√	√	√	√	√			
Neptune City	√	√	√	√	√					
Ocean Township		√			√	√				
Oceanport Borough	√	√	√		√	√	√			
Red Bank Borough	√	√	√	√	√	√	√			
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	
Sea Bright Borough						√				
Sea Girt Borough	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough		√	√		√					
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√			
Spring Lake Heights Borough	√	√	√	√		√	√			
Tinton Falls Borough		√	√	√	√	√	√	√	√	√
Union Beach Borough	√	√	√	√	√	√	√			
Upper Freehold Township	√		√		√	√				
Wall Township	√	√		√		√	√			
West Long Branch Borough	√	√	√			√	√			
Monmouth University						√				

<p><b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b></p>
<p><b>high</b></p>	<p><b>Moderate</b></p>	<p><b>Moderate</b></p>	<p><b>High</b></p>	<p><b>Moderate</b></p>
<p><b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b></p>				
<p>The Borough has retained an engineer as a zoning officer/floodplain manager with education and expertise to assess the community's vulnerability to hazards.</p>				



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

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- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name: Thomas J Herits PE PP PLS**

**Title: Township Engineer**

**Representing: Shrewsbury Township**

**Email and Phone: [therits@maserconsulting.com](mailto:therits@maserconsulting.com) 732-261-7934**

**Table 4-1 (continued)**  
**Jurisdictional Legal and Regulatory Capabilities**

<b>Jurisdiction</b>	<b>Building Code</b>	<b>Zoning Ordinance</b>	<b>Subdivision Ordinance</b>	<b>Special Purposes Ordinance</b>	<b>Growth Management Ordinance</b>	<b>Site Plan Review Requirements</b>	<b>Comprehensive Plan</b>	<b>Capital Improvements Plan</b>	<b>Economic Development Plan</b>	<b>Emergency Response Plan</b>	<b>Post-Disaster Recovery Plan</b>	<b>Post-Disaster Recovery Ordinance</b>	<b>Real Estate Disclosure Ordinance</b>
Marlboro Township		√	√	√	√	√	√	√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	√			
Middletown Township		√	√	√		√		√	√	√	√	√	√
Millstone Township		√	√	√		√	√	√	√	√	√	√	√
Monmouth Beach Borough	√	√	√	√		√		√		√	√		
Neptune Township	√	√	√	√	√	√	√	√	√	√			
Neptune City		√	√	√		√	√	√		√			
Ocean Township	√	√	√	√	√	√	√	√	√	√	√		√
Oceanport Borough	√	√	√	√	√	√	√	√	√	√	√		√
Red Bank Borough	√	√	√	√	√								
Roosevelt Borough													
Rumson Borough	√	√	√	√		√	√	√					
Sea Bright Borough		√	√	√		√	√			√	√		
Sea Girt Borough		√	√	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough	√	√	√	√		√	√	√	√	√	√	√	√
Shrewsbury Township	<b>X</b>	<b>X</b>											
Spring Lake Borough	√	√	√	√	√	√	√	√	√	√	√		
Spring Lake Heights Borough		√	√	√		√	√	√		√			
Tinton Falls Borough	√	√	√	√	√	√	√	√		√	√	√	
Union Beach Borough	√	√	√	√	√	√	√	√		√			
Upper Freehold Township	√	√	√	√	√	√	√	√	√	√	√	√	√
Wall Township		√	√	√	√	√	√	√	√	√	√	√	
West Long Branch Borough	√	√	√	√	√	√	√	√		√	√		√
Monmouth University										√			

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Matawan Borough	√	√	√			√			√	√
Middletown Township	√	√	√	√	√	√	√	√	√	√
Millstone Township	√	√	√	√	√	√	√		√	√
Monmouth Beach Borough	√	√	√	√	√	√	√		√	√
Neptune Township	√	√	√			√	√		√	√
Neptune City	√	√					√		√	
Ocean Township	√	√	√	√	√	√	√		√	√
Oceanport Borough	√	√	√		√				√	√
Red Bank Borough	√	√	√	√	√	√	√	√	√	√
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	√
Sea Bright Borough	√	√	√		√			√	√	√
Sea Girt Borough	√	√	√	√	√	√		√	√	√
Shrewsbury Borough	√	√	√	√	√		√		√	√
Shrewsbury Township	X	X	X	X	X	X	X		X	X
Spring Lake Borough	√	√	√	√		√	√	√	√	√
Spring Lake Heights Borough	√	√	√		√	√			√	
Tinton Falls Borough	√	√	√			√			√	
Union Beach Borough	√	√	√	√	√	√	√	√	√	√
Upper Freehold Township	√	√	√	√	√	√	√		√	
Wall Township	√	√	√	√	√	√	√		√	√
West Long Branch Borough	√	√	√		√				√	√
Monmouth University	√	√	√							√

**Table 4-3  
Jurisdictional Fiscal Capabilities**

Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Manasquan Borough		√	√	√		√	√			
Marlboro Township	√	√	√		√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	
Middletown Township	√	√				√	√	√		
Millstone Township	√	√	√		√	√				
Monmouth Beach Borough	√	√	√			√				
Neptune Township	√	√	√	√	√	√	√			
Neptune City	√	√	√	√	√					
Ocean Township		√			√	√				
Oceanport Borough	√	√	√		√	√	√			
Red Bank Borough	√	√	√	√	√	√	√			
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	
Sea Bright Borough						√				
Sea Girt Borough	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough		√	√		√					
Shrewsbury Township	<b>X</b>	<b>X</b>	<b>X</b>			<b>X</b>				
Spring Lake Borough	√	√	√	√		√	√			
Spring Lake Heights Borough	√	√	√	√		√	√			
Tinton Falls Borough		√	√	√	√	√	√	√	√	√
Union Beach Borough	√	√	√	√	√	√	√			
Upper Freehold Township	√		√		√	√				
Wall Township	√	√		√		√	√			
West Long Branch Borough	√	√	√			√	√			
Monmouth University						√				

<p><b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b></p>
<p><b>Low</b></p>	<p><b>Moderate</b></p>	<p><b>Low</b></p>	<p><b>Moderate</b></p>	<p><b>Moderate</b></p>
<p><b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b></p>				
<p>The Township will budget, yearly, sufficient funds to implement, in phases, hazard mitigation strategies.</p>				



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Capability Assessment Update*

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Name: Albert P. Ratz

Title: Construction Official

Representing: Spring Lake Boro.

Email and Phone: sratz@springlakeboro.org 732 449 0800

Municipality BOROUGH OF SPRING LAKE

Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?
MODERATE	MODERATE	HIGH	HIGH	HIGH
Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.				
<p>OVERALL THE BOROUGH'S CAPABILITIES TO ENSURE THAT LOCAL MITIGATION ACTION &amp; GOALS ARE IN-LINE. LEGAL/REGULATORY AND TECHNICAL CAPABILITIES ARE IMPROVING BY SCHEDULING QUARTERLY MEETING TO DISCUSS LOCAL STRATEGIES AND IMPLEMENTATION VARIOUS ACTION PLANS.</p>				



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Capability Assessment Update

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**Name: Joseph C. May**

**Title: Borough Engineer**

**Representing: Borough of Spring Lake Heights**

**Email and Phone: [jmay@springlakehts.com](mailto:jmay@springlakehts.com) 732-449-3500**

SPRING LAKE HEIGHTS

Manalapan Township	√	√	√	√	√	√	√	√	√	√	√	√	√
Manasquan Borough	√	√	√	√		√	√	√		√	√	√	√
<b>Table 4-1 (continued) Jurisdictional Legal and Regulatory Capabilities</b>													
Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Marlboro Township		√	√	√	√	√	√	√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	√			
Middletown Township		√	√	√		√		√	√	√	√	√	√
Millstone Township		√	√	√		√	√	√	√	√	√	√	√
Monmouth Beach Borough	√	√	√	√		√		√		√	√		
Neptune Township	√	√	√	√	√	√	√	√	√	√			
Neptune City		√	√	√		√	√	√		√			
Ocean Township	√	√	√	√	√	√	√	√	√	√	√		√
Oceanport Borough	√	√	√	√	√	√	√	√	√	√	√		√
Red Bank Borough	√	√	√	√	√								
Roosevelt Borough													
Rumson Borough	√	√	√	√		√	√	√					
Sea Bright Borough		√	√	√		√	√			√	√		
Sea Girt Borough		√	√	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough	√	√	√	√		√	√	√	√	√	√	√	√
Shrewsbury Township													
Spring Lake Borough	√	√	√	√	√	√	√	√	√	√	√		
Spring Lake Heights Borough	X	√	√			√	√	√		√			
Tinton Falls Borough	√	√	√	√	√	√	√	√		√	√	√	
Union Beach Borough	√	√	√	√	√	√	√	√		√			
Upper Freehold Township	√	√	√	√	√	√	√	√	√	√	√	√	√
Wall Township		√	√	√	√	√	√	√	√	√	√	√	
West Long Branch Borough	√	√	√	√	√	√	√	√		√	√		√
Monmouth University										√			

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√
Matawan Borough	√	√	√			√			√	√
Middletown Township	√	√	√	√	√	√	√	√	√	√
Millstone Township	√	√	√	√	√	√	√		√	√
Monmouth Beach Borough	√	√	√	√	√	√	√		√	√
Neptune Township	√	√	√			√	√		√	√
Neptune City	√	√					√		√	
Ocean Township	√	√	√	√	√	√	√		√	√
Oceanport Borough	√	√	√		√				√	√
Red Bank Borough	√	√	√	√	√	√	√	√	√	√
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	√
Sea Bright Borough	√	√	√		√			√	√	√
Sea Girt Borough	√	√	√	√	√	√		√	√	√
Shrewsbury Borough	√	√	√	√	√		√		√	√
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√	√	√	√
Spring Lake Heights Borough	√	√	√	X	X	√	X GIS		√	
Tinton Falls Borough	√	√	√			√			√	
Union Beach Borough	√	√	√	√	√	√	√	√	√	√
Upper Freehold Township	√	√	√	√	√	√	√		√	
Wall Township	√	√	√	√	√	√	√		√	√
West Long Branch Borough	√	√	√		√				√	√
Monmouth University	√	√	√							√

**Table 4-3  
Jurisdictional Fiscal Capabilities**

Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Manalapan Township	√	√	√			√	√			
Manasquan Borough		√	√	√		√	√			
Marlboro Township	√	√	√		√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	
Middletown Township	√	√				√	√	√		
Millstone Township	√	√	√		√	√				
Monmouth Beach Borough	√	√	√			√				
Neptune Township	√	√	√	√	√	√	√			
Neptune City	√	√	√	√	√					
Ocean Township		√			√	√				
Oceanport Borough	√	√	√		√	√	√			
Red Bank Borough	√	√	√	√	√	√	√			
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	
Sea Bright Borough						√				
Sea Girt Borough	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough		√	√		√					
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√			
Spring Lake Heights Borough	√	√	√	√		√	√			
Tinton Falls Borough		√	√	√	√	√	√	√	√	√
Union Beach Borough	√	√	√	√	√	√	√			
Upper Freehold Township	√		√		√	√				
Wall Township	√	√		√		√	√			
West Long Branch Borough	√	√	√			√	√			
Monmouth University						√				

Municipality \_\_\_\_\_

<p><b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b></p>	<p><b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b></p>
<p>moderate</p>	<p>high</p>	<p>Low (1)</p>	<p>Low (2)</p>	<p>Moderate to high</p>

**Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.**

1. Action plans, increase funding, meetings and education are areas in which the Borough is planning to focus in the future to strengthen our Hazard Mitigation Strategies.



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

**A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**

**B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

**See attached Tables and responses to the supplemental questions on Page 7 The**

**Borough of Tinton Falls is highlighted in yellow and any additions are indicated by an X.**

**Then, review and answer the supplemental questions on Page 7. Check box C.**

**C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name: David Boehning**

**Title: Deputy Coordinator, Tinton Falls Office of Emergency Management**

**Representing: Borough of Tinton Falls**

**Email and Phone: [dboehning@tintonfalls.com](mailto:dboehning@tintonfalls.com) 732-542-3400x235**

**Table 4-1 (continued)  
Jurisdictional Legal and Regulatory Capabilities**

<b>Jurisdiction</b>	<b>Building Code</b>	<b>Zoning Ordinance</b>	<b>Subdivision Ordinance</b>	<b>Special Purposes Ordinance</b>	<b>Growth Management Ordinance</b>	<b>Site Plan Review Requirements</b>	<b>Comprehensive Plan</b>	<b>Capital Improvements Plan</b>	<b>Economic Development Plan</b>	<b>Emergency Response Plan</b>	<b>Post-Disaster Recovery Plan</b>	<b>Post-Disaster Recovery Ordinance</b>	<b>Real Estate Disclosure Ordinance</b>
Marlboro Township		√	√	√	√	√	√	√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	√			
Middletown Township		√	√	√		√		√	√	√	√	√	√
Millstone Township		√	√	√		√	√	√	√	√	√	√	√
Monmouth Beach Borough	√	√	√	√		√		√		√	√		
Neptune Township	√	√	√	√	√	√	√	√	√	√			
Neptune City		√	√	√		√	√	√		√			
Ocean Township	√	√	√	√	√	√	√	√	√	√	√		√
Oceanport Borough	√	√	√	√	√	√	√	√	√	√	√		√
Red Bank Borough	√	√	√	√	√								
Roosevelt Borough													
Rumson Borough	√	√	√	√		√	√	√					
Sea Bright Borough		√	√	√		√	√			√	√		
Sea Girt Borough		√	√	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough	√	√	√	√		√	√	√	√	√	√	√	√
Shrewsbury Township													
Spring Lake Borough	√	√	√	√	√	√	√	√	√	√	√		
Spring Lake Heights Borough		√	√	√		√	√	√		√			
<b>Tinton Falls Borough</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>		<b>√</b>	<b>√</b>	<b>√</b>	<b>X</b>
Union Beach Borough	√	√	√	√	√	√	√	√		√			
Upper Freehold Township	√	√	√	√	√	√	√	√	√	√	√	√	√
Wall Township		√	√	√	√	√	√	√	√	√	√	√	
West Long Branch Borough	√	√	√	√	√	√	√	√		√	√		√
Monmouth University										√			

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Matawan Borough	√	√	√			√			√	√
Middletown Township	√	√	√	√	√	√	√	√	√	√
Millstone Township	√	√	√	√	√	√	√		√	√
Monmouth Beach Borough	√	√	√	√	√	√	√		√	√
Neptune Township	√	√	√			√	√		√	√
Neptune City	√	√					√		√	
Ocean Township	√	√	√	√	√	√	√		√	√
Oceanport Borough	√	√	√		√				√	√
Red Bank Borough	√	√	√	√	√	√	√	√	√	√
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	√
Sea Bright Borough	√	√	√		√			√	√	√
Sea Girt Borough	√	√	√	√	√	√		√	√	√
Shrewsbury Borough	√	√	√	√	√		√		√	√
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√	√	√	√
Spring Lake Heights Borough	√	√	√		√	√			√	
<b>Tinton Falls Borough</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>X</b>	<b>X</b>	<b>√</b>	<b>X</b>		<b>√</b>	<b>X</b>
Union Beach Borough	√	√	√	√	√	√	√	√	√	√
Upper Freehold Township	√	√	√	√	√	√	√		√	
Wall Township	√	√	√	√	√	√	√		√	√
West Long Branch Borough	√	√	√		√				√	√
Monmouth University	√	√	√							√

**Table 4-3  
Jurisdictional Fiscal Capabilities**

<b>Jurisdiction</b>	<b>Community Development Block Grants (CDBG)</b>	<b>Capital Improvements Project Funding</b>	<b>Authority to Levy Taxes for Specific Purposes</b>	<b>Fees for Water, Sewer, Gas, or Electric Service</b>	<b>Impact Fees for Homebuyers or Developers for New Developments/Homes</b>	<b>Incur Debt through General Obligation Funds</b>	<b>Incur Debt through Special Tax and Revenue Bonds</b>	<b>Incur Debt through Private Activity Bonds</b>	<b>Withhold Spending in Hazard-Prone Areas</b>	<b>Other</b>
Manasquan Borough		√	√	√		√	√			
Marlboro Township	√	√	√		√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	
Middletown Township	√	√				√	√	√		
Millstone Township	√	√	√		√	√				
Monmouth Beach Borough	√	√	√			√				
Neptune Township	√	√	√	√	√	√	√			
Neptune City	√	√	√	√	√					
Ocean Township		√			√	√				
Oceanport Borough	√	√	√		√	√	√			
Red Bank Borough	√	√	√	√	√	√	√			
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	
Sea Bright Borough						√				
Sea Girt Borough	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough		√	√		√					
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√			
Spring Lake Heights Borough	√	√	√	√		√	√			
<b>Tinton Falls Borough</b>	<b>X</b>	√	√	√	√	√	√	√	√	
Union Beach Borough	√	√	√	√	√	√	√			
Upper Freehold Township	√		√		√	√				
Wall Township	√	√		√		√	√			
West Long Branch Borough	√	√	√			√	√			
Monmouth University						√				

Municipality: BOROUGH OF TINTON FALLS

<p>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</p>
<p><b>HIGH</b></p>	<p><b>MODERATE</b></p>	<p><b>LOW</b></p>	<p><b>HIGH</b></p>	<p><b>HIGH</b></p>
<p><b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b></p>				
<p>The Borough of Tinton Falls has sufficient professionals to provide the legal and regulatory capabilities, as well as strong overall administration personnel capable of implementing hazard mitigation strategies. The Borough's Mayor and Council Members are particularly accepting of hazard mitigation proposals. The gaps identified in the Borough's capabilities to achieve mitigation actions and goals include; overall technical capability and fiscal capability. Technical capability to implement strategy is predominately contingent on fiscal capabilities. Allocating finances to mitigation projects are challenging at the Municipal level. There is typically a significant cost associated with hazard mitigation projects. In addition to physical construction costs, many hazard mitigation projects are complex in nature and require extensive permits from NJDEP, USACE, SESC, etc or may require property and r.o.w acquisition all of which drive soft costs up. Even applications to obtain hazard mitigation grant funds is a costly endeavor. Ways of bridging gaps include seeking grant funding, shared service agreements with other municipalities, public-private partnerships, and technical assistance programs from other levels of government.</p>				



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

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**A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**

Currently, everything is the same however, the economic development plan, post disaster recovery plan, post disaster recovery ordinance and real estate disclosures might change in the future based upon the outcome of Sandy.

**B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

**Then, review and answer the supplemental questions on Page 7. Check box C.**

**C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

Name: Ed Broberg

Title: Borough Engineer

Representing: Borough Engineer UNION  
BEACH

Email and Phone: Ebroberg@tandmassociates.com 732-671-6400

### Legal and Regulatory Capability - 2009 Plan

UNION BEACH

Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Marlboro Township		√	√	√	√	√	√	√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	√			
Middletown Township		√	√	√		√		√	√	√	√	√	√
Millstone Township		√	√	√		√	√	√	√	√	√	√	√
Monmouth Beach Borough	√	√	√	√		√		√		√	√		
Neptune Township	√	√	√	√	√	√	√	√	√	√			
Neptune City		√	√	√		√	√	√		√			
Ocean Township	√	√	√	√	√	√	√	√	√	√	√		√
Oceanport Borough	√	√	√	√	√	√	√	√	√	√	√		√
Red Bank Borough	√	√	√	√	√								
Roosevelt Borough													
Rumson Borough	√	√	√	√		√	√	√					
Sea Bright Borough		√	√	√		√	√			√	√		
Sea Girt Borough		√	√	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough	√	√	√	√		√	√	√	√	√	√	√	√
Shrewsbury Township													
Spring Lake Borough	√	√	√	√	√	√	√	√	√	√	√		
Spring Lake Heights Borough		√	√	√		√	√	√		√			
Tinton Falls Borough	√	√	√	√	√	√	√	√		√	√	√	
Union Beach Borough	√	√	√	√	√	√	√	√		√			
Upper Freehold Township	√	√	√	√	√	√	√	√	√	√	√	√	√
Wall Township		√	√	√	√	√	√	√	√	√	√	√	
West Long Branch Borough	√	√	√	√	√	√	√	√		√	√		√
Monmouth University										√			

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Millstone Township	√	√	√	√	√	√	√		√	√
Monmouth Beach Borough	√	√	√	√	√	√	√		√	√
Neptune Township	√	√	√			√	√		√	√
Neptune City	√	√					√		√	
Ocean Township	√	√	√	√	√	√	√		√	√
Oceanport Borough	√	√	√		√				√	√
Red Bank Borough	√	√	√	√	√	√	√	√	√	√
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	√
Sea Bright Borough	√	√	√		√			√	√	√
Sea Girt Borough	√	√	√	√	√	√		√	√	√
Shrewsbury Borough	√	√	√	√	√		√		√	√
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√	√	√	√
Spring Lake Heights Borough	√	√	√		√	√			√	
Tinton Falls Borough	√	√	√			√			√	
Union Beach Borough	√	√	√	√	√	√	√	√	√	√
Upper Freehold Township	√	√	√	√	√	√	√		√	
Wall Township	√	√	√	√	√	√	√		√	√
West Long Branch Borough	√	√	√		√				√	√
Monmouth University	√	√	√							√

**Table 4-3  
Jurisdictional Fiscal Capabilities**

Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Matawan Borough	√	√	√	√	√	√	√	√	√	
Middletown Township	√	√				√	√	√		
Millstone Township	√	√	√		√	√				
Monmouth Beach Borough	√	√	√			√				
Neptune Township	√	√	√	√	√	√	√			
Neptune City	√	√	√	√	√					
Ocean Township		√			√	√				
Oceanport Borough	√	√	√		√	√	√			
Red Bank Borough	√	√	√	√	√	√	√			
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	
Sea Bright Borough						√				
Sea Girt Borough	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough		√	√		√					
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√			
Spring Lake Heights Borough	√	√	√	√		√	√			
Tinton Falls Borough		√	√	√	√	√	√	√	√	√
Union Beach Borough	√	√	√	√	√	√	√			
Upper Freehold Township	√		√		√	√				
Wall Township	√	√		√		√	√			
West Long Branch Borough	√	√	√			√	√			
Monmouth University						√				

<b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b>
Moderate	High	Low	Moderate	High
<b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b>				
<p>The Borough of Union Beach has implemented several projects listed within the 2008 Monmouth County Multi-Jurisdiction Hazard Mitigation plan. However, the Borough has been limited in their ability to complete all projects due to funding. The Borough will continue to apply to FEMA and local programs to implement these initiatives while budget projects that the Borough can reasonably accomplish.</p>				



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update Capability Assessment Update

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)
- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)

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Then, review and answer the supplemental questions on Page 7. Check box C.

- C) I have completed responses to the supplemental questions on Attachment Page 7.

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

Name: MICHAEL CONROY

Title: EMERGENCY MANAGEMENT COORDINATOR

Representing: UPPER FREEHOLD TOWNSHIP, MONMOUTH COUNTY, NEW JERSEY

Email and Phone: [MCONROY@UFTNJ.COM](mailto:MCONROY@UFTNJ.COM) (609) 548 - 7191

Municipality UPPER FREEHOLD TOWNSHIP, MONMOUTH COUNTY, NEW JERSEY

<p>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</p>
<p>MODERATE</p>	<p>MODERATE</p>	<p>MODERATE</p>	<p>MODERATE</p>	<p>MODERATE</p>
<p>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</p>				
<p>The current mitigation actions and goals are capable of being adequately addressed and managed by the resources available.</p>				



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Capability Assessment Update*

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Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables on Attachment Pages 1 through 6, and identify any changes that have occurred since that time. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

- A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. (If checking box A, then please return only this cover page.)**
- B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below. (If checking box B, then please return this completed cover page and any pages with markups.)**

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**Then, review and answer the supplemental questions on Page 7. Check box C.**

- C) I have completed responses to the supplemental questions on Attachment Page 7.**

Completed questionnaires should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by April 29, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** Joseph Wilbert

**Title:** Deputy Coordinator

**Representing:** Township of Wall

**Email and Phone:** coordinator@oemwalltwp.org

<p>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</p>
Moderate	Moderate	Moderate	Moderate	High
<p><b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b></p>				
<p>Continue to encourage the key stakeholders to identify the professional skills within our community and competencies needed now and in the future and to align them to reduce hazard vulnerabilities within our community.</p>				



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Capability Assessment Update*

---

Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

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**Name: Paul Habermann**  
**Representing: Borough of West Long Branch**  
**Title: OEM Coordinator**  
**Email and Phone: phabermann@westlongbranch.org 732-229-5000**

Lake Como Borough		√	√	√		√	√	√	√	√	√	√	
Little Silver Borough		√	√	√	√	√	√		√	√		√	√
Loch Arbour Village													
City of Long Branch		√	√	√		√	√	√	√	√			√
Manalapan Township	√	√	√	√	√	√	√	√		√	√	√	√
Manasquan Borough	√	√	√	√		√	√	√		√	√	√	√

**Table 4-1 (continued)  
Jurisdictional Legal and Regulatory Capabilities**

Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance
Marlboro Township		√	√	√	√	√	√	√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	√			
Middletown Township		√	√	√		√		√	√	√	√	√	√
Millstone Township		√	√	√		√	√	√	√	√	√	√	√
Monmouth Beach Borough	√	√	√	√		√		√		√	√		
Neptune Township	√	√	√	√	√	√	√	√	√	√			
Neptune City		√	√	√		√	√	√		√			
Ocean Township	√	√	√	√	√	√	√	√	√	√	√		√
Oceanport Borough	√	√	√	√	√	√	√	√	√	√	√		√
Red Bank Borough	√	√	√	√	√								
Roosevelt Borough													
Rumson Borough	√	√	√	√		√	√	√					
Sea Bright Borough		√	√	√		√	√			√	√		
Sea Girt Borough		√	√	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough	√	√	√	√		√	√	√	√	√	√	√	√
Shrewsbury Township													
Spring Lake Borough	√	√	√	√	√	√	√	√	√	√	√		
Spring Lake Heights Borough		√	√	√		√	√	√		√			
Tinton Falls Borough	√	√	√	√	√	√	√	√		√	√	√	
Union Beach Borough	√	√	√	√	√	√	√	√		√			
Upper Freehold Township	√	√	√	√	√	√	√	√	√	√	√	√	√
Wall Township		√	√	√	√	√	√	√	√	√	√	√	
West Long Branch Borough	√	√	√	√	√	√	√	√		√	√		√
Monmouth University										√			

**Table 4-2  
Jurisdictional Administrative and Technical Capabilities**

Jurisdiction	Planner(s) or Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant Writers
Loch Arbour Village										
City of Long Branch	√	√		√	√	√			√	√
Manalapan Township	√	√	√	√		√			√	
Manasquan Borough		√	√			√			√	√
Marlboro Township	√	√	√	√	√	√	√		√	√
Matawan Borough	√	√	√			√			√	√
Middletown Township	√	√	√	√	√	√	√	√	√	√
Millstone Township	√	√	√	√	√	√	√		√	√
Monmouth Beach Borough	√	√	√	√	√	√	√		√	√
Neptune Township	√	√	√			√	√		√	√
Neptune City	√	√					√		√	
Ocean Township	√	√	√	√	√	√	√		√	√
Oceanport Borough	√	√	√		√				√	√
Red Bank Borough	√	√	√	√	√	√	√	√	√	√
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	√
Sea Bright Borough	√	√	√		√			√	√	√
Sea Girt Borough	√	√	√	√	√	√		√	√	√
Shrewsbury Borough	√	√	√	√	√		√		√	√
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√	√	√	√
Spring Lake Heights Borough	√	√	√		√	√			√	
Tinton Falls Borough	√	√	√			√			√	
Union Beach Borough	√	√	√	√	√	√	√	√	√	√
Upper Freehold Township	√	√	√	√	√	√	√		√	
Wall Township	√	√	√	√	√	√	√		√	√
West Long Branch Borough	√	√	√		√				√	√
Monmouth University	√	√	√							√

**Table 4-3  
Jurisdictional Fiscal Capabilities**

Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other
Lake Como Borough	√	√		√		√				
Little Silver Borough		√				√				
Loch Arbour Village										
City of Long Branch	√	√			√	√				
Manalapan Township	√	√	√			√	√			
Manasquan Borough		√	√	√		√	√			
Marlboro Township	√	√	√		√	√	√	√	√	√
Matawan Borough	√	√	√	√	√	√	√	√	√	
Middletown Township	√	√				√	√	√		
Millstone Township	√	√	√		√	√				
Monmouth Beach Borough	√	√	√			√				
Neptune Township	√	√	√	√	√	√	√			
Neptune City	√	√	√	√	√					
Ocean Township		√			√	√				
Oceanport Borough	√	√	√		√	√	√			
Red Bank Borough	√	√	√	√	√	√	√			
Roosevelt Borough										
Rumson Borough	√	√	√	√	√	√	√		√	
Sea Bright Borough						√				
Sea Girt Borough	√	√	√	√	√	√	√	√	√	√
Shrewsbury Borough		√	√		√					
Shrewsbury Township										
Spring Lake Borough	√	√	√	√		√	√			
Spring Lake Heights Borough	√	√	√	√		√	√			
Tinton Falls Borough		√	√	√	√	√	√	√	√	√
Union Beach Borough	√	√	√	√	√	√	√			
Upper Freehold Township	√		√		√	√				
Wall Township	√	√		√		√	√			
West Long Branch Borough	√	√	√			√	√			
Monmouth University						√				

Municipality\_Borough \_\_\_\_\_ of \_\_\_\_\_ West \_\_\_\_\_ Long  
 Branch \_\_\_\_\_

<b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b>
Moderate	Moderate	Moderate	Moderate	Moderate
<b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b>				
<b>Continue with Mitigation Planning process to include; program participation, progress monitoring and financial improvements.</b>				

**APPENDIX 1.7 – WORKSHEET 5: STATUS OF PAST PROJECTS**

Jurisdiction	Mitigation Action	Previous Priority	Hazard(s) Addressed	Responsible Party/Parties to Implement	Status - Check One			Status Details	Relevance - Check One		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity		Not Initiated	Still Relevant - Carry Forward to Updated Mitigation Strategy	
Monmouth County	Provide a General Overview of how Priorities Have Changed Since the Last Version of the Plan: After recent experiences with Hurricane Irene and Superstorm Sandy, Monmouth County priorities have, for the most part, not shifted. In general, 6 of the 7 previously identified mitigation actions will remain a priority. These include upgrade of critical county roads and bridges (infrastructure), the regional concept of stormwater management, upgrade of flood prone highway district garages and acquisitions will remain relevant mitigation strategies. Sheltering is still a priority and the County has initiated a plan to use county owned buildings to shelter it's residents. We are in the process of building a cache of supplies for the shelters, are planning to train county employees to assist in running the shelters, MOU's are in place with a food vendor and an EMS agency, reception centers and transportation plans are in place. Without the benefit of mitigation funding, the County has budgeted for, and made positive strides in most of these actions.										
Monmouth County	Project #1 - Storage of Critical Equipment (Retrofit existing facilities for storage of critical equipment presently housed at floodprone highway district garages - #1 in Belford and #8 in Hazlet)	H	Flooding, Storms, Nor'easter, Storm Surge, Hurricanes	Dept. of Public Works & Engineering & Building & Grounds				x	x		This action item for District #8 will remain a priority in the updated HMP and will now include permanent emergency generators at Highway Districts. During Sandy, a major problem was the lack of available fuel for first responder vehicles/equipment, as well as generators which were supporting county facilities and two county shelters. The County DPW&E submitted LOI's for HMGP 4086 funding to address these issues. At this time the LOI's are still in review.
Monmouth County	Project #2A - Regional Stormwater Management Hydrological and Drainage Studies	M	Flooding, Storm Surge	Municipal Government with Assistance from County departments through shared services	x					x	The County shared services agreement assists various communities, but the individual municipalities are the lead agency. This is a municipal mitigation project.
Monmouth County	Project #2B - Regional Stormwater Management Acquisition/Construction of Sediment Management Site	L	Flooding, Hurricanes, Nor'easters and Storm Surge	Various State, County & Municipal Agencies				x	x		This is not a mitigation strategy on its own, it is a component of overall projects.
Monmouth County	Project #3 - Utility Protection (Protective Measures for Utility Rights of Way)	M	Flooding, Hurricanes, Nor'easter, High Wind & Fire	County OEM, Utility Companies				x	x		This action has since been determined to be the direct responsibility of the various utility companies and is no longer considered to be a valid action for the County as the funding of more important mitigation efforts takes priority.
Monmouth County	Project #4 - Purchase Properties (Purchase of Flood Prone Properties)	M	Floods, nor'easter, hurricanes, storm surge, wave action	County Parks, other County agencies and Non profit conservation agencies, NJDEP (blue acres/green acres)				x	x		The Monmouth County Park System will continue to acquire properties within the project areas designated in the Monmouth County Open Space Plan (2008) to create a county-wide public open space system that will help meet park and recreation needs and conserve vital natural resources. The Park System will continue to work with the NJDEP Green Acres/Blue Acres Programs, municipalities and non-profits such as the Monmouth Conservation Foundation to meet the objectives and goals set in the Open Space Plan.

Jurisdiction	Mitigation Action	Previous Priority	Hazard(s) Addressed	Responsible Party/Parties to Implement	Status - Check One			Status Details	Relevance - Check One		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
Monmouth County	Project # 5 – Roads and Bridges (Upgrade Critical County Roads and Bridges Impacted by Flooding)	M	Floods, Storm Surge, Dam Failure, Wind, Nor'easter & Hurricane	County Dept. of Public Works & Engineering, & Municipal agencies	x			The three construction projects (County Bridges HL-72, MN-10, & U-12) are substantially complete and are awaiting minor modifications for close out. One project, the replacement of Bridge MA-9, rehabilitation of Lake Lefferts Dam, drainage & roadway improvements to CR 6A (Ravine Drive) is in the design phase and the construction contract is anticipated to be awarded in 2015.	x		The specific bridges identified in this 2009 Mitigation Action Project were completed with Federal, State and County funds. The County will continue to identify other critical roads and bridges to be upgraded and therefore reduce flooding. The County DPW&E submitted one LOI under HMGP 4086 addressing 2 County bridges (H-5 & H-5A) associated with the elevation of Palmer Ave (Holmdel & Middletown). At this time the LOI's are still under review.
Monmouth County	Project #6 - Shelter Hardening (Special Needs Shelter Hardening)	H	Floods, wind, winter storms, tornado, nor'easter, hurricanes & excessive heat	County Health Department and County OEM	x			FY 2010 HMA grant application submitted, required revisions to BCA portion of the application were too extensive for county staff ability. In 2011, this office began working with a local engineering firm to provide the BCA for the regional shelter, but FEMA's safe room policy for HMA grants was too restrictive. BCA issues were not resolved for the FY 10 grant. HMA safe room policy issue was not resolved.	x		Due to FEMA's restrictive safe room policy, the County will omit this mitigation action from the updated mitigation strategy. The County is moving forward with a county wide plan for sheltering Monmouth County residents.

Jurisdiction	Mitigation Action	Previous Priority	Hazard(s) Addressed	Responsible Party/Parties to Implement	Status - Check One			Relevance - Check One			Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated	Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
Aberdeen, Township of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: Due to the impact of Hurricane Sandy the township is concerned with improving protection of low-lying areas of Cliffwood Beach with engineered dunes and the extension of the existing seawall. Residents have also expressed concern with possible elevation of their homes.										
Aberdeen, Township of	Create a mitigation outreach program that helps residents prepare for disasters	H	All	Office of Emergency Management	X				X		Project has not changed.
Aberdeen, Township of	Develop specific mitigation solutions for flood prone roadways, specifically State Highway 35 at Long Neck Creek, Lakeshore Drive and Greenwood Avenue, and Amboy Avenue, under the leadership of NIDOT. Develop a work plan for when sites will be surveyed and what role can the local government play in selection and implementation of mitigation activities (i.e., any monetary or contextual support through the local capital improvement plan).	M	Flooding caused by floods, hurricanes, and nor'easters	Township Engineer, NIDOT, Monmouth County Highway Department	X				X		Project has not changed.

Jurisdiction	Mitigation Action	Previous Priority	Hazard(s) Addressed	Responsible Party/Parties to Implement	Status - Check One				Status Details	Relevance - Check One			Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy		
Allenhurst, Borough of	Created revised Storm Annex in Basic plan. Elevated municipal beach front buildings & infrastructure.												
Allenhurst, Borough of	Action 2B Mitigation Outreach	H	All	Deputy OEM		X		Posted mitigation outreach information in meeting room, PD and in Boro Hall. Updated governing body, Fire, Police & EMS.		x			Due to recent storm activity additional mitigation planning relating to the prevention of hurricane damage is being provided to residents and businesses. Not an organized program. These are issues discussed on a regular basis through municipal departments and the governing body.
Allenhurst, Borough of	Action 11A Purchase NOAA Weather Radios for critical facilities	H	All	Police	X						X		Reprogrammed EMS radios to carry NOAA in lieu of emergency radios.
Allenhurst, Borough of	Action 11B Educate residents about winter driving and winter hazards	M	Winter storm related hazards	Deputy OEM and Police		X					x		Not an organized activity. Outreach conducted regularly through all municipal departments.

Jurisdiction	Mitigation Action	Previous Priority	Hazard(s) Addressed	Responsible Party/Parties to Implement	Status - Check One				Status Details	Relevance - Check One			Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	Relevance - Omit from Updated Mitigation Strategy	
<b>Allentown, Borough of</b>	<b>Priorities have not changed since last version of the plan.</b>												
Allentown, Borough of	Educate residents about what to do before, during and after a flood	1	Flooding	OEM and Deputy OEM	X								not changed
Allentown, Borough of	Develop an inventory of addresses that could be affected by a wildfire. Use inventory and develop a route alerting system.	2	Wildfires	OEM and Deputy OEM	X								not changed
Allentown, Borough of	Reconstruct an existing dam that runs below County Route 539. Dam failure cause major private and public property damage. This would also greatly affect and damage municipal sewer plant.	3	Dam failures	OEM and Deputy OEM	X								not changed

Jurisdiction	Mitigation Action	Previous Priority	Hazard(s) Addressed	Responsible Party/Parties to Implement	Status - Check One				Status Details	Relevance - Check One			Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy		
Asbury Park, City of Monmouth County	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: accurate to state that they have not changed.												Generally, the local priorities remain the same since the 2009 plan. Overall it is
Asbury Park, City of	Repair damages, storm drains	M	Flooding	City Engineer		X				X			Remains relatively unchanged.
Asbury Park, City of	Replace bulkhead and dredge Sunset Lake	H	Flooding	City Engineer		X				X			Remains relatively unchanged.
Asbury Park, City of	Replace bulkhead and dredge Wesley Lake	H	Flooding	City Engineer				X		X			Remains relatively unchanged.

Jurisdiction	Mitigation Action	Previous Priority	Hazard(s) Addressed	Responsible Party/Parties to Implement	Status - Check One			Status Details	Relevance - Check One		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
Atlantic Highlands, Borough of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: The erosion and flooding to many parts of the Borough continues to be an issue of great concern. Since Superstorm Sandy (October 2012) the Borough has been dealing with flooding issues on the west side of town. It appears that the many Mind Creek floods residential areas more often than not in a rain storm. We continue to monitor the hillside for erosion and slump blocking										
Atlantic Highlands, Borough of	Project #1 - Hillside Road, Phase II	H (#1)	Landslides (steep slopes and slump blocks)	Mayor and Council	XX		Phase I of this project is complete. Phase II has rough estimates and drawing by engineer but there is no funding in place for Phase II	XX			Phase II continues to carry the stormwater from the end of Hillside Road, down to Bayside Drive via CMP. All CMP will be on Borough property or in easements with the neighbors. A scour pad at the bottom will dissipate the water. This work will elevate the pressure from stormwater along the hillside. The hillside has become progressively unstable and a huge amount of erosion has taken place since last update.
Atlantic Highlands, Borough of	Project #2 - Fireman's Field	M (#2)	Flooding	Mayor and Council, Atlantic Highlands Fire Department			Funding is a main reason for no action being taken although we did receive a "as built" map regarding the heights of the Many Mind Creek. Property line are a concern as well as the roadway bridge on West Highland Ave which appears to be undersized. This is a public / private project with the Borough of Atlantic Highlands, The County of Monmouth and the volunteer fire department have a stake in this.	XX			The change from previous is that the creek was dredged in this specific area and we continue to have flooding problems. The Fire Department owns the property so they must apply to DEP for CAFRA permit but they do not have the funds to do so. In addition, the bridge hasn't changed thus the continuance of problems.
Atlantic Highlands, Borough of	Project #3 - Bayside Drive Erosion Stabilization	M (#3)	Landslides (steep slopes and slump blocks)	Mayor and Council	XX		Funding is the main reason why this has not begun. Discussions have taken place and we have met with contractors regarding possible repairs. The cost is estimated to be in the \$2 to \$3 million range. The roadway is having difficulties with shifting.	XX			A lot more erosion has occurred and just recently, USGS has taken an interest and is doing an update to the Minyard report which was last updated in 1981. This project would bring better stability to the entire area as it sits on a slump block.

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Avon-by-the-Sea, Borough of	Continue outreach efforts to residents and businesses through the quarterly Borough newsletter and Borough web site		Flooding, Wind, Winter Storms	OEM Coordinator	X		Outreach continues	H			Outreach will be expanded as risk has grown	
Avon-by-the-Sea, Borough of	Establish a resource library at the Borough Library to include printed materials as well as electronic data from the internet related to natural disasters	M	Flooding, Wind, Winter Storms	Librarian, OEM Coordinator	X		Renovations at Library stalled progress	M			Renewed effort now that library work is completed	
Avon-by-the-Sea, Borough of	Evaluate vulnerabilities of existing emergency facilities including the Municipal Building (PD and FD HQ), EMS HQ, and Water Treatment Plant. Develop action plan for deficiencies identified.	H	Flooding, Wind, Winter Storms	OEM Coordinator, Construction Department	XX		New flood exposures for DPW and other locations	H			Evaluate all locations based upon new exposures	
Avon-by-the-Sea, Borough of	Expand upon the lake management efforts for the Sylvan Lake to reduce damage from flooding. Include additional wall replacement and dredging activities to remove silt from streams feeding the lake.	L	Flooding	Sylvan Lake Commission (a joint agency of Avon By the Sea and Bradley Beach)	XX		Lack of funding and location for dredge spoils.	H			New funding sources identified and Federal support in place following Sandy	
<b>Avon-by-the-Sea, Borough of</b> <b>Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: Local Priorities have changed dramatically due to the effects of Hurricane Sandy. More attention has been focused on the priorities and residential awareness has been greatly increased.</b>												

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Belmar, Borough of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: Belmar experienced serious flooding from Sandy resulting from the storm surge and resultant flooding caused in large part due to the variants in elevations between much of the town and Ocean Avenue. The surge resulted in flooding both from the Ocean and from the Shark River with flood waters meeting at Main Street, extensive damage to the beachfront, marina and residential properties. Belmar is now dealing with serious issues from the 2 lakes in town Lake Como, and Silver Lake. We have also seen a serious impact to our underground infrastructure including the water distribution system and sewer collection systems.													
Belmar, Borough of	Continue to implement projects identified in the Capital Improvement Plan and seek grant funding when possible to offset project costs	M	All	Belmar DPW		X			Sufficient public support exist for the projects however funding remains our greatest need.		X			Boro capital priorities have changed with the impact of Sandy and the increasing need to manage the flooding exposures from Lake Como and Silver Lake. Boro is undergoing significant investment to its underground infrastructure in 2013. The mitigation strategy at Silver Lake has been adjusted to reflect lessons learned during Hurricane Sandy. Additional projects such as an elevated bulkhead at the Marina and the Ocean Front "Seawall" are new initiatives identified post-Sandy.
Belmar, Borough of	Stabilization of shoreline	M	Coastal erosion	Belmar DPW		X			Beach Replenishment will be coordinated with the Army Corps of Engineers and a seawall is proposed for the structures on the beachfront		X			Awaiting Army Corps Project.
Belmar, Borough of	Lake Como Flooding Mitigation Project	H	Flooding	Belmar DPW		X			Lake Como ad Silver Lake flooding are priorities which will also include changes to storm water runoff management going forward		X			Some aspects of the mitigation projects are presently underway, funding is required for remaining implementation.

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<b>Bradley Beach, Borough of</b>											
<b>Due to Super Storm Sandy, our priorities are focused on the beach front, rebuilding our Dunes as well as re-pairing bulkhead breaches.</b>											
Bradley Beach, Borough of	Continue to implement measures to mitigate ocean and lake flooding due to hurricanes and large storms. This includes the new installation of outfall pipes and bulkheading around Fletcher Lake, bulkheading around Sylvan Lake and continued maintenance of the dunes which run along the entire beachfront.	M	Flooding due to hurricanes, coastal flooding and large storms	Mayor, Council, and Fletcher and Sylvan Lake Commission	Completed	Initiated but Not Completed	Not Initiated	<p>If not completed, identify barriers to implementation (i.e., lack of political support, funding, staff availability, etc.) or explain why the action is an ongoing one (i.e., acquisition of hazard prone land for open space can be completed for a given parcel or group of parcels, but there may be many more opportunities in the community and so the activity may be carried forward)</p>	Still Relevant - Carry Forward to Updated	No Longer Relevant - Omit from Updated	<p>If you checked the box that the project is being carried forward to the updated mitigation strategy, describe if and how it has changed from the 2009 Plan.</p> <p>If you checked the box that the project is being omitted from the updated mitigation strategy, provide a brief explanation.</p>
Bradley Beach, Borough of	Action 14A - Conduct evaluations of emergency facilities to determine the level of protection from flooding and wind damage	M	All	Mayor and Council, Office of Emergency Management	Completed	Initiated but Not Completed	Not Initiated	<p>Bulkheading of Sylvan and Fletcher Lakes is not completed due to financial inability. The Dunes were maintained adequately until Hurricane Sandy which eradicated them. The Borough is currently in the process of re-establishing the Dunes.</p> <p>The Borough Sewer Plant is identified as susceptible to storm flooding. Action is being taken at this time to Flood Proof the building and continue Dune Maintenance as well as elevate all utilities within the building and continue Dune Maintenance around the building. other critical facilities are not in the flood zone. The borough has considered wind effects at critical facilities but wind mitigation measures have not been deemed necessary at this time.</p>	Still Relevant - Carry Forward to Updated	No Longer Relevant - Omit from Updated	<p>The outfall pipe for Fletcher Lake along with the gates have been replaced and further bulkheading along Sylvan Lake has been added. Also Dunes along the entire length of the beachfront that are no longer there are in the process of being re-established.</p> <p>This project is being carried forward strictly regarding the sewer plant; other critical facilities are not in the flood zone. The borough has considered wind effects at critical facilities but wind mitigation measures have not been deemed necessary at this time.</p>
Bradley Beach, Borough of	Continue to support and fund the Borough's Community Emergency Response Team	M	All	Mayor, Emergency Management Coordinator	Completed	Initiated but Not Completed	Not Initiated	<p>The Borough continues to support and fund the Community Emergency Response Team.</p>	Still Relevant - Carry Forward to Updated	No Longer Relevant - Omit from Updated	<p>This is an ongoing activity however it has not changed from the 2009 plan.</p>
Bradley Beach, Borough of	Action 14D - Continue to implement the best management practices for floodplain areas	M	Flooding	Mayor, Council, Borough Administrator, Borough Engineer	Completed	Initiated but Not Completed	Not Initiated	<p>Lack of available grants and funding have hampered the Borough's ability to institute mitigation actions necessary to prevent flooding in certain identified areas.</p>	Still Relevant - Carry Forward to Updated	No Longer Relevant - Omit from Updated	<p>Due to the new advisory based flood elevation mapping and new areas that have been identified as prone to flooding since Super Storm Sandy new mitigation actions are in the process of being implemented.</p>

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Brielle, Borough of	Reinforce the First Aid Building to be used as an emergency shelter. Retrofit and make improvements to a dedicated emergency shelter located out of flood-prone areas. The improvements would make the shelter resistant to loss of power during hurricanes, nor'easters, and other high wind storms. It would also harden the structure against utility outages due to extreme temperatures.		Hurricanes, loss of power, winter storms, nor'easters, heat wave, flooding, storm surge	Brielle OEM, Mayor and Council	<input checked="" type="checkbox"/>							
Brielle, Borough of	Multiple Bulkhead restoration projects throughout the Borough with priority being Ocean Avenue to prevent the end of the roadway from collapsing, which would undermine the adjacent properties and can cause flooding during a period of high tide. Any storm that creates a tidal surge would then pose a severe threat to the area and further undermine		Flooding, storm surge, hurricanes, nor'easters	Brielle OEM, Mayor and Council			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		The building now functions as a shelter and continues to be part of the emergency plan; however, the mitigation strategy is complete.  These projects would be a secondary priority post-Hurricane Sandy in favor of elevation of private homes. The design of the project would be revised based on the current ABFE, if funding is identified.
<b>Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: The Borough's mitigation emphasis will be to facilitate and support the elevation of private homes that have been identified as at-risk in the FEMA ABFEs released earlier in 2013. The Borough completed activities to create adequate storm shelter for residents since the last plan; thus, that item of the plan is no longer an applicable activity.</b>												

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<b>Colts Neck, Township of</b>	<b>Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan:</b> Since the last version of the plan was prepared, the Township has been impacted by two hurricanes. Each event has disrupted major portions of the town with power outages. Because Colts Neck is a well and septic community, no power means no water or sewer either. Therefore, the Township's focus has shifted away from outreach and more toward mitigation of tree related hazards that can impact power supply and transmission.												
Colts Neck, Township of	Action 2A - Expand and disseminate GIS and other hazard information on the internet	M	All	Township Administration		X			Continuing to evolve the connectivity between the Township and our residents. The County has GIS mapping available to internet users.		X	Established continuance of updated mapping. Change of Mitigation priority to keeping residential power through Utility pole replacement and tree trimming.	
Colts Neck, Township of	Action 2B - Create mitigation outreach program that helps residents and businesses prepare for disasters	M	All	Township Administration		X			Continuing to evolve the connectivity between the Township and our residents.		X	Established continuance of outreach. Change of Mitigation priority to keeping residential power through Utility pole replacement and tree trimming.	
Colts Neck, Township of	Action 11B - Educate residents about driving in winter storms and handling winter related health effects	M	Winter storms and nor'easters	Township Administration		X			Continuing to educate and promote through Website and reverse 911 messaging.		X	Established continuance of resident education. Change of Mitigation priority to keeping residential power through Utility pole replacement and tree trimming.	
Colts Neck, Township of	Action 11C - Promote ice and windstorm resistant trees and trimming to reduce tree related hazards	M	Winter storms and nor'easters	Township Administration		X			Continuing to educate and promote through Website and reverse 911 messaging.		X	Established continuance of resident education. Change of Mitigation priority to keeping residential power through Utility pole replacement and tree trimming.	

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Deal, Borough of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: Poplar Brook has always been our trouble spot for flooding over the years and was the top priority during the last version. With improvements that have been made both in Deal, and upstream in Ocean Township, we are now starting to focus on roadways with poor drainage. In addition, Hurricane Sandy has shifted most attention to rebuilding and reinforcing the beachfront areas that were so dramatically impacted.											
Deal, Borough of	Set up detention pond and berm system to prevent future flooding for Poplar Brook between Norwood Ave and Ocean Ave	H	Hurricane, tropical storm, nor'easter, winter storm, flood, storm surge, tsunami	Business Admin, DPW, OEM, Borough Engineer, Army Corps, State DEP	X				Some work has been done both in Deal and upstream in Ocean Township which has improved the situation. The berm system and retention pond has been determined by engineers to not be a benefit and has been abandoned.	XXXX		Relevant work has been completed, the rest abandoned.
Deal, Borough of	Widen culverts under roadways in three different streets for Poplar Brook (Norwood Ave, Almyr Ave, Ocean Ave)	H	Hurricane, tropical storm, nor'easter, winter storm, flood, storm surge, tsunami	Business Admin, DPW, OEM, Borough Engineer, Army Corps, State DEP, County Bridge Dept, State DOT	X				Ocean Avenue has been completed. The two remaining are owned by outside agencies and there has been no funding provided to complete projects to date.	XXXX		Project completed for Ocean Avenue. Almyr Avenue is owned by the County and no funding has yet been provided and no work done. Norwood Avenue is owned by the State and also no funding or work has been done. We will continue to keep the remaining two locations pending for possible future completion.

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<b>Eatontown, Borough of</b>	<b>Our priorities are have not changed, the number one priority is to have the brook dredged this will enable the creeks to take off and drain water much better reducing flooding. Acquiring generators for our evacuation sites is second we are now looking at the GSA Excess program which is acquiring excess government property. Our last program has been completed.</b>												
Eatontown, Borough of	Dredge Husky Brook that runs through town, Fix Lewis Street	H (#1)	Hurricane and tropical storms, nor'easters, storm surge, flooding	Mayor/Council, Borough Engineer				x					
Eatontown, Borough of	Add generators to shelters for emergency power and telecommunications	M (#2)	Hurricane and tropical storms, nor'easters, storm surge, flooding	Mayor/Council, Board of Education, Borough Engineer				x					
Eatontown, Borough of	Purchase NOAA Radios and educate residents about storms	M (#3)	Hurricane and tropical storms, nor'easters, storm surge, flooding	OEM Coordinator									

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Englishtown, Borough of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: Overall, the Borough's local priorities from the last plan have not changed and mitigation of flood hazards via stream cleaning will remain a focus. Since the last version of the plan was prepared, there is a new focus on mitigating the effects of high winds, primarily with regard to downed trees on power lines and associated power outages.		Flooding, heavy rain events, nor'easters and hurricanes, spring thaw	Mayor, Council	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This project has not changed from the 2009 Plan. This is an ongoing project that requires coordination with County agencies, which have the manpower and equipment to complete the tasks.
Englishtown, Borough of	Conduct routine stream maintenance program and seek financial assistance to clean out stream segments with heavy sediment deposits, Weamaconk Creek and McGeallards Brook	H			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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Fair Haven, Borough of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: PRIORITIES HAVE NOT CHANGED POWER OUTAGES IS STILL OUR MAJOR CONCERN.												
Fair Haven, Borough of	Place power transmission lines underground	1	Downed power lines during wind or ice storms	JCP&L									
Fair Haven, Borough of	Replace older damaged utility poles with newer, up-to-date poles	2	Downed power lines during wind or ice storms	Verizon									
Fair Haven, Borough of	Remove or trim trees that would have the potential of falling during a storm	3	Threat of injury to the public and damage to property	DPW, JCP&L									

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<b>Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: Irene and Sandy have brought forth a new perspective on the value of mitigation and preparedness and how being proactive could be cost effective</b>												
Farmingdale, Borough of	Harden existing shelters for storm resistance	M	All	HTOEM	x				Funding - in conjunction with Howell Township	x		Moved forward in securing generator.
Farmingdale, Borough of	Increase shelter in place capabilities	M	All	HTOEM		x			Funding-in conjunction with Howell Township	x		Initiated public outreach program.
Farmingdale, Borough of	Purchase, raise or address repetitive flood areas and properties	L	Nor'easter, winter storms, tornado, hurricane	HTOEM	x				Funding needed and man power to investigate and report on	x		No change from 2009
Farmingdale, Borough of	Redundant dispatch and EOC upgrade	H	All	HTOEM, HTPD	x				Funding has been confirmed.		x	Identified permanent EOC location & securing generator.
Farmingdale, Borough of	Standby power for emergency needs	H	All	HTOEM, HTPD, HTDPW	x				Funding required for purchase and reallocation of generators	x		In process of reallocating generators.
Farmingdale, Borough of	Backup water purification for shelter and utility outage	H	All	HTOEM, HEALTH	x				Funding for the mitigation action has not yet been fully identified	x		No change from 2009

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Freehold, Borough of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: There is more emphasis on a shade tree program to remove trees that are a hazard since the Borough of Freehold experienced the Super Cell Storm in July 2012 and Hurricane Sandy in 2012. Also the Borough Officials have worked with Jersey Central Power and Light Company to provide additional power paths to Hudson Manor Senior Citizen Building and Rug Mill Towers Apartment Building.													
Freehold, Borough of	Planning and funding to update communications and backup power systems in the EOC	H	All	Mayor, Council and Business Administrator										Applying for Grant Funding to upgrade power system for EOC
Freehold, Borough of	Emergency generators installed in our grammar schools that are designated as evacuation centers	H	All	Mayor, Council and Local school board										Applying for Grant Funding to install back up generators in evacuation centers and shelters
Freehold, Borough of	Create an outreach program to help residents plan for disasters	L	All	OEM, Mayor and Council										Will be using email blasts and reverse 911 system to notify and educate and aid residents plan for disasters

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Freehold, Township of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: While flooding remains a priority, power loss has become a growing priority. Ongoing programs of tree trimming/removal will be explored with private/public entities. Alternate sources of power also will be explored to maintain public services and safety.											
Freehold, Township of	Action 4E - Conduct routine stream maintenance program to identify areas prone to flooding and seek financial assistance to clean out problem segments	H	Flooding, heavy rain events	OEM, Public Works, County, State and Federal agencies		X	Continuing Maintenance Program	X				Public Works will continue to monitor waterways prone to flooding and continue a maintenance program
Freehold, Township of	Action 2B - Create mitigation and preparedness outreach program by providing information that helps residents and property owners prepare for disasters	H	All	OEM		X	Continuing Information Program	X				OEM will continue outreach program and expand where necessary.
Freehold, Township of	Action 11B - Educate residents about driving in winter storms and handling winter related health hazards	H	Winter storms and nor'easters	OEM		X	Continuing Information Program		X			Not a viable option for overall mitigation.

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<b>Hazlet, Township of</b>															
<b>Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: Hazlet Township is refocusing these priorities to mitigating flooding in areas of the township. Clearing creeks, waterways, drainage etc.</b>															
Hazlet, Township of	10A- Develop a mapping of wildland/urban interface areas with assistance of the NJFS	H	Wildfires	OEM and Fire Chiefs				X	CHANGE OF FOCUS. STAFF AVAILABILITY, CHANGE IN POLITICAL SUPPORT.	X				The current Township Committee feels that this is no longer an immediate need. Need to focus on flood issues.	
Hazlet, Township of	10B- Put together a list of addresses for route altering during wildfire emergencies that require public warning	H	Wildfires	OEM				X	CHANGE OF FOCUS. STAFF AVAILABILITY, CHANGE IN POLITICAL SUPPORT.	x				The current Township Committee feels that this is no longer an immediate need. Need to focus on flood issues.	
Hazlet, Township of	10I - Mitigation for streets, highways, and roads that provide key fire access and fuelbreaks	M	Wildfires	Hazlet Public Works				X	CHANGE OF FOCUS. STAFF AVAILABILITY, CHANGE IN POLITICAL SUPPORT.	x				The current Township Committee feels that this is no longer an immediate need. Need to focus on flood issues.	
Hazlet, Township of	10I - With assistance of NJFS, widen all paths in the wildland area for better access	M	Wildfires	OEM, NJFS				X	Budgetary constraints	x				The current Township Committee feels that this is no longer an immediate need. Need to focus on flood issues.	

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Highlands, Borough of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: Flooding has always been a concern in the Borough and remains a large concern today especially in the wake of the storm events we've experienced over the past several years. As such, the importance of providing mitigation measures and protection of the Borough's facilities and infrastructure is of the utmost importance. Equally important is to ensure that the privately owned structures are also following the Borough's Flood Damage Prevention Ordinance with regards to elevating and mitigating them as appropriate.										
Highlands, Borough of	Action 1E - Update Highlands Flood Mitigation Plan 1999. Use existing flood damage prevention ordinance 0-98-12. flood ID survey results, surface flooding drainage study, and repetitive loss survey results. Include damage surveys and repair cost estimates.	H	Flooding	Mayor and Council	X				X		The Flood Mitigation Ordinances will be revised to comply with future requirements set forth by FEMA and the NDEP.
Highlands, Borough of	Action 4E - Use flood ID survey results in Highlands Mitigation plan to mitigate damage and losses due to flooding. Specifically undersized drainage pipes, pumping station, and bulkheads. Stormwater runoff from hill sections, tidal conditions and coastal flooding create severe flooding conditions (pumps, storm drain replacement and repair)	H	Flooding due to stormwater runoff, tidal flooding, and coastal floods. Hurricanes and nor'easters	Mayor and Council		X		The Borough has identified and designed a storm system improvement project to reduce flooding in a portion of the downtown area. Lack of funding has prohibited the project from being implemented. There will be other phases of the project in the future as additional funding becomes available.	X		The Borough has identified and designed a storm system improvement project to reduce flooding in a portion of the downtown area. The project will be implemented as funding becomes available.
Highlands, Borough of	Action 7B - Reduce the possibility of damage and losses due to coastal erosion and wave action (bulkheads, repair wharves)	H	Flooding due to inland and coastal floods, hurricanes and nor'easters	Mayor and Council			X	The Borough visually evaluates the conditions of various bulkheads on a regular basis. Troubled areas are identified and addressed appropriately. The Army Corps of Engineers is also proposing a mitigation project along the waterfront.	X		The Army Corps of Engineers is currently advancing conceptual designs and alternatives for protection along the Borough's waterfront areas.
Highlands, Borough of	Action 9D - Reduce the possibility of damage and losses due to landslides. Highlands has specific areas identified (9A) prone to landslides. Damage as a result of a landslide currently has Bayside Drive closed.	H	Landslides due to steep slopes and slump blocks	Mayor and Council			X	The Borough has revised it's steep slope disturbance policies from a design waiver to a variance. This requirement puts any proposed project within a steep slope area under more scrutiny.	X		The steep slope areas are valid areas of concern and are consistently being monitored for potential revisions to the current Ordinance.
Highlands, Borough of	Action 2C - Planning for and funding improvements to telecommunication and electrical systems at critical facilities including facilities used for EOC and as local shelters.	M	All	Mayor and Council		X		Many of the Borough's telecommunications and electrical systems at critical facilities were adversely impacted due to Superstorm Sandy. Stand-by back up generation power, transfer switches, telecommunication equipment, dispatch DPW yard are currently uninhabitable due to damaged facilities with the exception of the firehouse and DPW yard are currently uninhabitable due to damaged facilities or possibly relocate to other areas within town.	X		Critical electrical and telecommunication infrastructure will have to be repaired and or replaced throughout the entire Borough due to Superstorm Sandy. These areas include the EOC, warning systems, dispatch center, designated shelters, pump stations, The Borough will either mitigate existing uninhabitable Borough facilities or possibly relocate to other areas within town.
Highlands, Borough of	Action 13E - Install hurricane clips and wind shutters on existing development particularly emergency facilities and shelters built before existing codes were adopted to offer some degree of protection	M	Wind events	Mayor and Council			X	Many of the Borough's facilities were adversely impacted due to Superstorm Sandy. Damage assessments have been completed and levels of protection have been identified. Recommendations are currently being developed.	X		The Borough is currently developing recommendations to mitigate flooding to it's facilities including damage from Superstorm Sandy.
Highlands, Borough of	Action 14A - Reduce the possibility of damage to emergency facilities by conducting an evaluation to determine existing level of protection, particularly to flooding and implementing recommendations.	M	All (particularly flooding)	Mayor and Council	X						

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					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated	Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy		
Holmdel, Township of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: Failure of an emergency generator at a sewer pump station during Sandy led to an Engineering review of the township sanitary sewer infrastructure to identify necessary upgrades/repairs to mitigate potential failures due to age. An Engineering inspection has determined that various Sanitary Sewer pump stations and some sewer lines require either repair, reconstruction or replacement. It is likely that this project will require further investment during the next several years.													
Holmdel, Township of	Retrofit existing sewer pump stations with hurricane clips/straps as needed to reduce the possibility of loss of municipal sewer service due to windstorms/hurricanes	H	Wind events	Township Administrator										
Holmdel, Township of	Require mulch on or adjacent to commercial shopping area parking lots to be fire resistant	H	Fire	Township Committee										

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Howell, Township of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: Acquired structures in flood prone area and demolish structures to reduce flood issues. Adopted a community wide hazard review program. After Irene and Hurricanes Sandy there are additional areas of the Township that required mitigation. There was a significant damage to structures and infrastructure. Further armoring of certain areas, being prepared for outages, and securing emergency generators was and is vital and needed to protect both private homes and public infrastructure. Acquisitions of certain properties have allowed the Township to reduce the impact of hurricanes. Securing emergency generators and power supplies will help minimize the impact in the future.										If you checked the box that the project is being carried forward to the updated mitigation strategy, describe if and how it has changed from the 2009 Plan. If you checked the box that the project is being omitted from the updated mitigation strategy, provide a brief explanation.
Howell, Township of	Harden existing shelters for storm resistance	M	All	HTOEM	X			Funding	X		Moved forward in securing generator.
Howell, Township of	Increase shelter in place capabilities	M	All	HTOEM		X			X		Have implemented aggressive public outreach program.
Howell, Township of	Purchase, raise or address repetitive flood areas and properties	L	Nor'easter, winter storms, tornado, hurricane	HTOEM	X			Funding has been confirmed. Waiting for completion for com	X		Have identified other areas of concern.
Howell, Township of	Redundant dispatch and EOC upgrade	H	All	HTOEM, HTPD	X			Funding	X		Identified permanent EOC location & securing generator.
Howell, Township of	Standby power for emergency needs	H	All	HTOEM, HTPD, HTDPW	X			Funding	X		In process of reallocating generators.
Howell, Township of	Backup water purification for shelter and utility outage	H	All	HTOEM, HEALTH			X	Funding	X		No change from 2009/

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Keansburg, Borough of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: Since Super Storm Sandy the Borough residents that sustained substantial damage must now raise their homes.										
Keansburg, Borough of	1A - Enact hazard zoning ordinances	H	Flooding	Mayor and Council, Zoning Board, Planning Board, Code Officials	x			ongoing issue	x		Hazard Zoning Ordinances still enforced
Keansburg, Borough of	1B - Specifically allow variances on foundations of newly built structures	H	Flooding due to inland and coastal floods, hurricanes, nor'easters, and storm surges	Mayor and Council, Zoning Board, Planning Board, Code Officials	x			a case by case basis is needed due to the newly adopted maps	x		Due to the newly adopted maps elevations have changed.
Keansburg, Borough of	Develop mitigation steps to reduce damage and losses due to flooding, through the control of water flow and a more efficient drainage	H	Flooding due to inland and coastal floods, hurricanes, nor'easters, and storm surges	Mayor and Council, Borough Manager, Water Plan, Borough Engineer, Public Works	x			not enough funding available at this time	x		Pumping station not complete, bulkhead soon to be started
Keansburg, Borough of	Create an outreach program to help residents prepare for disasters	H	Flooding due to inland and coastal floods, hurricanes, nor'easters, and storm surges	Mayor and Council, Borough Manager, OEM Coordinators	x			funding for a phone system is needed.	x		Brochures were made and distributed throughout the borough
Keansburg, Borough of	Develop a plan and seek funding for backup electric in critical care facilities	H	Flooding due to inland and coastal floods, hurricanes, nor'easters, and storm surges	Mayor and Council, Borough Manager, OEM Coordinators				no funding available	x		generators are being placed in designated buildings
Keansburg, Borough of	Reduce water use for landscaping by imposing mandatory water use restrictions	L	Droughts	Mayor and Council, Borough Manager, OEM Coordinators, Water Department, Supervisor of Public Works	x				x		still active

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					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated	If not completed, identify barriers to implementation (i.e., lack of political support, funding, staff availability, etc.) or explain why the action is an ongoing one (i.e., acquisition of hazard prone land for open space can be completed for a given parcel or group of parcels, but there may be many more opportunities in the community and so the activity may be carried forward)	Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	If you checked the box that the project is being carried forward to the updated mitigation strategy, describe if and how it has changed from the 2009 Plan. If you checked the box that the project is being omitted from the updated mitigation strategy, provide a brief explanation.	
Keypoint, Borough of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: Since the last version of the plan, the borough of Keypoint sustained damage as a result of superstorm sandy. Some flooding hazards were alleviated to Broad and 1st street by raising the road elevation at that location. completion of a waterfront park with the elevation of a bulkhead with promenade further alleviated moon high tide flooding. since sandy, it has become evident that placement of bulkheads in flood prone areas and the raising of roadways does reduce property damage.												
Keypoint, Borough of	Fireman's Park bulkhead extension from bulkhead elevation 8.1 to Monmouth County bridge on W. Front Street	H	Flooding, wave action	Mayor and Council					X	Funding and acquisition of tidelands and bulkhead right of way.	X	Priority shift to bulkhead with acquisition rights.	
Keypoint, Borough of	Raising of Green Grove Avenue at Chingarora Creek culvert crossing to alleviate storm flooding of this coastal evacuation route	H	Flooding	Mayor and Council					X	Cooperative measures needed with adjoining municipality and county.	X	Drainage and curbing on Green Grove Road.	

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Lake Como, Borough of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: Action 1C. The Borough adopted the Advisory Base Flood Plan Elevation Ordinance in May 2013. The ordinance addresses the height of homes in flood areas and is enforced by the Building Department. Item 2: The Borough has worked with the Boroughs of Spring Lake and Belmar, and South Monmouth Regional Sewer Authority in mitigating the outfall pipe from Como Lake to the ocean and a new outfall pipe was installed in May 2013 and 4 pipes were installed to allow water to be pumped underground from the lake to the ocean. Spring Lake has applied for mitigation for the lake to install a new pipe and the Boroughs plan to continue working together to prevent flooding from the lake into the flood areas.											
Lake Como, Borough of	Action 1C - Enact hazard zoning/ordinances on height of homes in flood areas to place foundations above floodplain	H	Flooding	Mayor and Council	X			Completed by adoption of ordinance.				Completed.
Lake Como, Borough of	Develop mitigation action steps to reduce damage and losses due to flooding caused by inland and coastal floods (hurricanes and nor'easters), which impact Lake Como. This would be achieved by controlling the water flow by a more efficient drainage system into the ocean. Specifically by utilizing pumps at Lake Como to control floodwaters	H	Flooding, hurricanes, and nor'easters	Mayor and Council		X		Barrier: Funding. The boroughs of Lake Como, Spring Lake and Belmar in conjunction with South Monmouth Regional Sewerage Authority have completed mitigation of the outfall pipe to Pre-Sandy condition, and have installed 4 pipes under the outfall that allow the water to be pumped from the lake to the ocean. We will continue to work on mitigation to have a permanent solution of a larger outfall pipe, dredging and raising the level of the lakefront property.	X	N/A		No changes since 2009, however, Superstorm Sandy has proven that this is a necessary project.

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Little Silver, Borough of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: The Borough has actively worked on addressing local priorities. Since the 2009 Mitigation Plan the Borough has been successful in addressing and completing Action 4E. Likewise, the Borough has pursue cleaning of the Borough Streams since Super Storm Sandy										
Little Silver, Borough of	Action 4E - Develop mitigation steps to reduce damage and losses due to flooding caused by coastal flooding, hurricanes, nor'easters at the end of Little Silver Point Road (Howard's Beach) specifically by new outfall structure for storm drainage system	H	Flooding due to coastal storms, hurricanes, nor'easters and storm surge	Mayor and Council	<input checked="" type="checkbox"/>			The Borough has completed drainage improvements and new outfall structure at the end of Little Silver Point Road (Howard's Beach).	<input checked="" type="checkbox"/>		The Borough has completed this project.
Little Silver, Borough of	Action 4F - Reduce the possibility of flood damage by conducting a stream maintenance plan	M	Flooding due to heavy rain events, hurricanes, nor'easters, and storm surge	Mayor and Council		<input checked="" type="checkbox"/>		Ongoing currently working with NJDEP cleaning Town Neck Creek and Parkers Creek Tributaries.	<input checked="" type="checkbox"/>		The Borough continues to work on stream maintenance as funding is made available.
Loch Arbour, Village of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan:										
Loch Arbour, Village of	Action 4E - Develop mitigation steps to reduce damage and losses caused by inland and coastal floods, hurricanes and nor'easters at Deal Lake through control of water flow and more efficient drainage to the Atlantic Ocean by electrification of Deal Lake flume gates. Note: The Village is a member of the NEFP and has implemented a local warning system.	H	Flooding due to inland and coastal floods, hurricanes and nor'easters	Deal Lake Commission, DEP, area municipal governing bodies							
Loch Arbour, Village of	Action 4F - Reduce the possibility of flood damage by conducting stream maintenance and clearing sediment from Deal Lake and surrounding streams in the watershed	H	Flooding due to inland and coastal floods, hurricanes and nor'easters	Deal Lake Commission, DEP, area municipal governing bodies, county and state							
Loch Arbour, Village of	Action 4H - Reduce the possibility of flooding at the eastern terminus of Deal Lake by implementing stormwater retention projects identified by the Deal Lake Commission in the Regional Stormwater Management Plan for the Deal Lake Watershed	H	Flooding due to inland and coastal floods, hurricanes and nor'easters	See above							

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<b>Long Branch, City of</b>	<b>Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan:</b> Due to the effects of Hurricane Sandy the City's priorities have shifted to funding projects that were in place pre-Sandy. The City has suffered significant infrastructure damage and new priorities have been established. There are also several storm surge mitigation projects such as duck bill assemblies on outflows and one-way check valves which are being designed and estimated.										
Long Branch, City of	Enact updated hazard zoning/ordinances. Specifically to conform to FEMA's new FIRM program	H	Flooding	Mayor and Council							
Long Branch, City of	Develop mitigation steps to reduce damage and losses due to flooding caused by inland and coastal floods, hurricanes and nor'easters. Through control of water flow and through more efficient drainage to ocean and river. Specifically install drainage and storm water pipe to control flood waters and increase strategic locations to control flow.	H	Flooding due to inland and coastal floods, hurricanes and nor'easters	Mayor and Council					X		
Long Branch, City of	Develop mitigation steps to reduce damage and losses due to flooding caused by excessive precipitation in areas surrounding City Hall from Broadway to Morris Avenue	H	Flooding due to excessive precipitation and improper pipe sizing for increased development	Mayor and Council					X		
Long Branch, City of	Reduce the likelihood of flood damage by creating and executing a stream and lake maintenance plan	M	Inland and coastal flooding	State DEP, Mayor and Council					X		
Long Branch, City of	Develop and implement a mitigation plan to control flash flooding condition under NJ Transit Railroad trestle near train station	M	Poor elevation and complicated by poor drainage and improper pitch of roadways	Mayor and Council					X		

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Manalapan, Township of	Action 1 - Holiday Lake dredging project. Temporary dewatering and removal of sediment, stream bank stabilization. Construction of an outlet control structure (sluice gate) between gate and existing headwall		Flooding, nor easterly, and hurricanes	Township Committee, Municipal Engineers	Completed	If not completed, identify barriers to implementation (i.e., lack of political support, funding, staff availability, etc.) or explain why the action is an ongoing one (i.e., acquisition of hazard prone land for open space can be completed for a given parcel or group of parcels, but there may be many more opportunities in the community and so the activity may be carried forward)	Still Relevant - Carry Forward to Updated	If you checked the box that the project is being carried forward to the updated mitigation strategy, describe if and how it has changed from the 2009 Plan. If you checked the box that the project is being omitted from the updated mitigation strategy, provide a brief explanation.
Manalapan, Township of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: The Township has completed the sole project that was identified as a priority within the prior version of the plan. The Township continues to develop new strategies to mitigate flooding, which is the most relevant hazard impacting this community.				Initiated but Not Completed		No Longer Relevant - Omit from Updated	
Manalapan, Township of					Ongoing Type of Activity			
Manalapan, Township of					Not Initiated			
Manalapan, Township of					Completed	The project was successfully completed using the resources of the Manalapan Township DPW and Monmouth County Mosquito Commission.	X	The project was completed.

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Manasquan, Borough of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: In the wake of Hurricane Sandy, Manasquan has been actively identifying mitigation activities that will make our critical infrastructure, and emergency response systems more resilient to large-scale natural disasters. This includes providing back-up power systems, redundant communication and public warning systems, and providing fail-back emergency and governmental operations centers. Manasquan is also actively pursuing the elevation and floodproofing of residences and businesses in floodzones. Manasquan is also investigating projects that include elevating roadways and infrastructure in the flood-prone areas to make more resilient to coastal storms, and exploring property buyouts and open space preservation for severe repetitive loss areas. Manasquan has undertaken a wholesale review of our mitigation efforts and is committed to undertaking large-scale flood control projects, including watershed and flood studies and flood mitigation projects on all waterways that contribute to flooding within the municipality, all subject to available funding assistance.										If you checked the box that the project is being carried forward to the updated mitigation strategy, describe if and how it has changed from the 2009 Plan. If you checked the box that the project is being omitted from the updated mitigation strategy, provide a brief explanation.
Manasquan, Borough of	Increase Public Warning Capabilities: Upgrade existing AM Radio station, increase warning siren coverage, implement Reverse911 system, install electronic sign system	H	All	Office of Emergency Management with approval from governing body	X			Barriers include funding.	X		Please remove "Upgraded existing AM Radio station." Please change "install electronic sign system" to "upgrade electronic sign system coverage". Please add "improve use of web-based programs and social media" in this item.
Manasquan, Borough of	Develop Residential Mitigation Strategies: Develop specific hazard mitigation actions that home/business owners can undertake that will reduce property damage resulting from coastal storms	H	All	Office of Emergency Management with approval from governing body	X			Barriers include funding & staff availability		X	Please change "resulting from coastal storms" to "resulting from natural disasters". Please add "This includes specific hazard mitigation activities including elevating structures & property buyouts in repetitive loss areas."
Manasquan, Borough of	Develop Public Outreach Program: Implement a public outreach program that includes hazards identification, public warning systems and mitigation activities that home/business owners can undertake	H	All	Office of Emergency Management	X			Barriers include funding & staff availability	X		Please add "Develop a Program For Public information that will undertake a systematic approach towards hazard identification, mitigation, public safety and post-disaster recovery public information dissemination"
Manasquan, Borough of	Develop digital GIS flood inundation mapping: Develop inundation mapping based upon aerial topographic mapping and incorporating the latest SLOSH values from the US Army Corps	H	Hurricanes, Nor'easters, Flooding & Storm Surge	Office of Emergency Management with approval from governing body	X			Barriers include funding, technical capabilities, training & staff availability		X	GIS inundation mapping is already available from federal agencies for the regulatory floodplain as well as surge zones.

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Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: The priorities have remained constant however we will be redefining our actions to include more specific projects as related to our stream cleaning program.												
Marlboro, Township of	Action 2D - Establish a stream cleaning program for Deep Run and its tributaries into Old Bridge Township to its deposit into the New Jersey American Water facility in Old Bridge Township	H	Flooding	Engineering		X			The stream cleaning program will be ongoing throughout the municipality. Priorities are established based on prevailing issues, available manpower and funding.	XX		The project will be redefined into more specific sections to allow for more thorough reporting.
Marlboro, Township of	Action 2D - Establish a stream cleaning program for the Yellow Brook and its tributaries up to Buck's Pond in Colts Neck Township	H	Flooding	Engineering		X			The stream cleaning program will be ongoing throughout the municipality. Priorities are established based on prevailing issues, available manpower and funding.	XX		The project will be redefined into more specific sections to allow for more thorough reporting.
Marlboro, Township of	Action 2D - Establish a stream cleaning program for the Barclay Brook and its tributaries through Old Bridge Township to its deposit in the Matchaponix Brook	H	Flooding	Engineering		X			The stream cleaning program will be ongoing throughout the municipality. Priorities are established based on prevailing issues, available manpower and funding.	XX		The project will be redefined into more specific sections to allow for more thorough reporting.
Marlboro, Township of	Action 2D - Establish a stream cleaning program for Melvins Brook and its tributaries through Manalapan Township to its deposit in McCallairds Brook	H	Flooding	Engineering		X			The stream cleaning program will be ongoing throughout the municipality. Priorities are established based on prevailing issues, available manpower and funding.	XX		The project will be redefined into more specific sections to allow for more thorough reporting.
Marlboro, Township of	Action 4A - Increase public awareness relating to the risks associated with severe weather events and the importance of personal preparedness	H	All	Administration			X		There has been staff discussion on the various means and methods to accomplish the action. Other issues have forced this to a lower priority however action will be initiated this year.	XX		The project will remain as it was originally posted.
Marlboro, Township of	Action 1D - Improve the Township's ability to alert and warn the public in the event of impending severe events	H	All	Office of Emergency Management			X		The Township has increased the use of Social Media as a way to inform the public during emergencies, including Facebook, Twitter and the Township website. Options for a local emergency radio system are being researched and hope to be acted upon within the next year.	XX		The project will remain as it was originally posted.

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Matawan, Borough of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: Local Priorities have remained the same except for the additional mitigation action of adding auxiliary power to the Matawan Municipal Community Center/Borough Hall Complex. Has risen to a major priority in addition to the replacement of both dams, following Super Storm Sandy.												
Matawan, Borough of	Replacement of the Lake Lefferts Dam	L	Flooding due to inland flooding, hurricanes and nor'easters	Mayor/Council, Monmouth County Engineering Dept.				X	Joint Project between Monmouth County & Matawan	X			The Project is currently in the engineering & design phase.
Matawan, Borough of	Replacement of the Lake Matawan Dam	L	Flooding due to inland flooding, hurricanes and nor'easters	Mayor/Council, Monmouth County Engineering Dept.				X	Monmouth County is currently issuing RFP for engineering services	X			Project has not changed from the 2009 Plan.
Matawan, Borough of	Reduce flooding frequency of Aberdeen Road - downstream from Lake Lefferts - elevate roadway	M	Flooding due to inland flooding, hurricanes and nor'easters	Mayor/Council, Borough Engineer					Funding is barrier to implementation. Awaiting on HMGP	X			Project has not changed from the 2009 Plan.

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Interlaken, Borough of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: Storm water management continues to be a top priority within the Borough of Interlaken. Drainage is being improved a little at a time with the ultimate goal of having all drainage systems updated and adequate.		nor'easters, hurricanes, flooding caused by inland and coastal floods, storm surge	Mayor and Council, Deal Lake Commission	<input type="checkbox"/> Completed <input checked="" type="checkbox"/> Initiated but Not Completed <input type="checkbox"/> Ongoing Type of Activity <input type="checkbox"/> Not Initiated	<p>If not completed, identify barriers to implementation (i.e., lack of political support, funding, staff availability, etc.) or explain why the action is an ongoing one (i.e., acquisition of hazard prone land for open space can be completed for a given parcel or group of parcels, but there may be many more opportunities in the community and so the activity may be carried forward)</p>	<input type="checkbox"/> Still Relevant - Carry Forward to Updated Mitigation Strategy <input type="checkbox"/> No Longer Relevant - Omit from Updated Mitigation Strategy	<p>If you checked the box that the project is being carried forward to the updated mitigation strategy, describe if and how it has changed from the 2009 Plan.            If you checked the box that the project is being omitted from the updated mitigation strategy, provide a brief explanation.</p>
Interlaken, Borough of	Develop mitigation steps to reduce damage and losses due to flooding through control of stormwater runoff and more efficient drainage and discharge to ocean waters		nor'easters, hurricanes, flooding caused by inland and coastal floods, storm surge	Mayor and Council, Deal Lake Commission	<input checked="" type="checkbox"/> Completed <input type="checkbox"/> Initiated but Not Completed <input type="checkbox"/> Ongoing Type of Activity <input type="checkbox"/> Not Initiated	Work has been done a little at a time to slowly improve all drainage systems as the ultimate goal.	<input type="checkbox"/> Still Relevant - Carry Forward to Updated Mitigation Strategy <input type="checkbox"/> No Longer Relevant - Omit from Updated Mitigation Strategy	Nothing has changed, a limited amount of funding is allocated each year to slowly make improvements. Ongoing project.

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					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated	Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy		
Little Silver, Borough of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan:											
Little Silver, Borough of	Action 4E - Develop mitigation steps to reduce damage and losses due to flooding caused by coastal flooding, hurricanes, nor'easters at the end of Little Silver Point Road (Howard's Beach) specifically by new outfall structure for storm drainage system	H	Flooding due to coastal storms, hurricanes, nor'easters and storm surge	Mayor and Council								
Little Silver, Borough of	Action 4F - Reduce the possibility of flood damage by conducting a stream maintenance plan	M	Flooding due to heavy rain events, hurricanes, nor'easters, and storm surge	Mayor and Council								
Loch Arbour, Village of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: Local priorities have remain ongoing between the Village and Deal Lake Commission. The Village has continued to work with the Commission in making improvements to Deal Lake as funding is made available.											
Loch Arbour, Village of	Action 4E - Develop mitigation steps to reduce damage and losses caused by inland and coastal floods, hurricanes and nor'easters at Deal Lake through control of water flow and more efficient drainage to the Atlantic Ocean by electrification of Deal Lake flume gates. Note: The Village is a member of the NRP and has implemented a local warning system.	H	Flooding due to inland and coastal floods, hurricanes and nor'easters	Deal Lake Commission, DEP, area municipal governing bodies								
Loch Arbour, Village of	Action 4F - Reduce the possibility of flood damage by conducting stream maintenance and clearing sediment from Deal Lake and surrounding streams in the watershed	H	Flooding due to inland and coastal floods, hurricanes and nor'easters	Deal Lake Commission, DEP, area municipal governing bodies, county and state								
Loch Arbour, Village of	Action 4H - Reduce the possibility of flooding at the eastern terminus of Deal Lake by implementing stormwater retention projects identified by the Deal Lake Commission in the Regional Stormwater Management Plan for the Deal Lake Watershed	H	Flooding due to inland and coastal floods, hurricanes and nor'easters	See above								

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<b>Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan:</b> We are reviewing the affects of Hurricane Sandy on items including but not limited to Shoreline protection, stream and wetland systems, building codes and construction, new ABFEs.												
Middletown, Township of	Action 1C Enact Hazard Zoning/Ordinances. Township recently amended ordinance for height flexibility. Height can be measured after the lot is filled to place foundations above floodplain. Note: Township is a member of NFP (JA) and has a Stormwater Management Plan (SE)		100yr flood	Planning and Building Department	x						x	The updates are completed as needed for CRS program
Middletown, Township of	Within the flood hazard areas, raise dwelling units one foot above base flood elevation	H	100yr flood	State DEP and Planning Department		x					x	Elevation continues to be a mitigation strategy.
Middletown, Township of	Action 4F - Conduct a routine stream and ditch maintenance program in floodprone areas	M	mosquito control	In conjunction with Monmouth County Mosquito Control Commission - Regular program of stream and ditch maintenance			x				x	In the post Sandy environment more than stream and ditch maintenance. We need a high priority flood and mosquito control project in partnership with other agencies including County Public Works to desilt and dredges streams and ditches
Middletown, Township of	Wetlands maintenance and removal of invasive plant species	H	Flooding and fire hazards	Mayor and Township Committee			x				x	Project is ongoing. Steps include staff training, develop wetlands and maintenance program and implementation plan
Middletown, Township of	Maintenance and upgrade of stormwater management structures and facilities	H	Flood and mosquito control	Mayor and Township Committee		x					x	We are continuing to review shoreline protection in the post Sandy environment regarding maintenance and upgrades

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					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated	If not completed, identify barriers to implementation (i.e., lack of political support, funding, staff availability, etc.) or explain why the action is an ongoing one (i.e., acquisition of hazard prone land for open space can be completed for a given parcel or group of parcels, but there may be many more opportunities in the community and so the activity may be carried forward)	Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Mitigation Strategy Omit from Updated Mitigation Strategy	Forward to Updated Mitigation Strategy	If you checked the box that the project is being carried forward to the updated mitigation strategy, describe if and how it has changed from the 2009 Plan. If you checked the box that the project is being omitted from the updated mitigation strategy, provide a brief explanation.			
Millstone, Township of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: Millstone's priorities have not changed since the last version of the plan. The Township still operates on private wells and septic systems and is totally dependent on electric power for running water and other basic toileting and bathing needs. The Township continues to have a high degree of long duration outages, primarily from downed trees and flooding that results from storm activities. Additionally, as a result of power outages, communications to residents continue to be a major obstacle that we must contend with during most emergencies making responses and remediation that much more difficult. Finding workable solutions to these problems continue to be Millstone's biggest challenges.															
Millstone, Township of	Develop mitigation steps to reduce damage and losses due to flooding through control of stormwater runoff and more efficient drainage and discharge to five major streams	H	Severe thunderstorms, hurricanes, nor'easters, storm surge	Mayor and Township Committee and OEM Coordinator				X							This is an ongoing strategy for the Township as they work to improve and control stormwater runoff.	
Millstone, Township of	Develop mitigation steps to reduce significant damage from losses due to wildfires	H	Wildfires, thunderstorms, fallen electrical wires, plane crashes and motor vehicle accidents	Mayor and Township Committee and OEM Coordinator				X								This is an ongoing strategy for the Township as they work to improve and control wildfires.

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<b>Monmouth Beach, Borough of</b>	<b>Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: As a result of Sandy, priorities have changed in that areas of town are not draining as well as in the past and erosion is becoming a concern on public park land.</b>												
Monmouth Beach, Borough of	Install drainage to relieve flooding from flood prone areas. Example - Johnson St./Anderson St./Drew Ct./Valentine St.	H	High tide flooding, northeast storms, flash flooding due to heavy rains, hurricane, snow event	Local government									

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Neptune City, Borough of	Our priorities have changed over the past three to four years due to the fact that power outages have been frequent during this time. Our priority has become more focussed on providing generators to public buildings to continue government operations and to provide shelter for our emergency personnel. We have also identified several areas which are prone to severe flooding. Since Hurricane Sandy the tides of the Shark River are exceptionally low and exceptionally high. During rain events, the drainage has been diminished.											
Neptune City, Borough of	Action 2C - Implement a public awareness campaign on the use of grounded electric outlets and surge protectors	H	Lightning strikes	Office of Emergency Management	x			Over the past few years, the focus of the Neptune City Office of Emergency Management has changed, and although this education movement is still a priority, other concerns have taken priority.	x			No longer a priority at this time.
Neptune City, Borough of	Action 11B - Implement a public awareness campaign on driving in winter storms and handling related health effects	H	Winter storms and nor'easters	Office of Emergency Management	x			Over the past few years, the focus of the Neptune City Office of Emergency Management has changed, and although this education movement is still a priority, other concerns have taken priority.		x		No longer a priority at this time.
Neptune City, Borough of	Action 2C - Develop a plan and seek funding for backup electric for shelters	M	All	Mayor and Council			x	The Borough is actively pursuing options to create comfort stations for the Public and facilities for First Responders and their families to stay during stand by time, and during emergencies. Generators have been purchased, locations have been chosen.			x	This project is ongoing and the Borough has applied for a HM grant to help fulfill this.

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					Completed	Initiated but Not Completed	Not Initiated		Still Relevant - Carry Forward to Updated	Mitigation Strategy	Omni from Updated	
<b>Neptune, Township of</b>	<b>After Hurricane Sandy there are additional areas of the Township that require mitigation. There was a significant storm surge in coastal areas. Further bulkheading and armoring of these areas is needed to protect both private homes and public infrastructure. In addition there are structures that need to be elevated. There is bulkheading that needs to be elevated and additional bulkheading needed to protect adjacent properties. There are pump stations that need water tight doors and acquisitions of low lying properties so as to minimize their impact in the future.</b>											
Neptune, Township of	Identify outfalls to Category One waterways and other receiving bodies, retrofit with Trieflex or equivalent and install stormceptors prior to discharge to waterbody	H	Flooding, environmental, wind, storm	Township Committee, Engineering	X			Barriers are due to funding staffing	X			A portion of this work has been completed and additional funding is being sought.
Neptune, Township of	Seek funding for dredging of Shark River. Coordination with adjoining municipalities	H	Flooding, environmental, storm	Township Committee, Engineering	X			Barriers to funding available, permittable Land for containment facility.	X			Several Land areas are being looked at jointly with other towns and the County; Process is moving forward
Neptune, Township of	Seek funding for replacement of bulkhead along Shark River.	H	Flooding, storm, environmental	Township Committee, Engineering, Public Works	X			Awaiting funding from Irene and reapplied for funding post Sandy	X			Portions of this work was completed post Irene with FEMA funding, additional portions of bulkhead moving forward.
Neptune, Township of	Implement GIS based hazard data on the Neptune website and through publications made available to the public	H	Flooding, wind, storm	Township Committee, Building, Construction	X			Funding and staffing: Consultant retained to update mapping	X			Update of maps of storm drains and open space/ ongoing
Neptune, Township of	Encourage public to build/modify to be more disaster resistant building. Further educate construction department to aid public in same	H	Flooding, storm, wind, hurricane	Township Committee, Building, Construction, Zoning	X			Adopted stricter regulations for rebuilding in Flood Hazard Areas.	X			Further education and Public outreach coordination needed.
Neptune, Township of	Include in Neptune Day a public awareness information booth. Preparation of informational packets for safety, mitigation, evacuation routes and available resources	H	Flood, wind, storm	Building, Construction	X	X		Yearly activity for Public outreach and awareness	X			Yearly event to educate the Public;
Neptune, Township of	Preparation of study of streams and capacity and prioritize. Preparation and analysis of access and plan to desnag/desilt streams and waterways	M	Flooding, storm, environmental	Township Committee, Engineering	X			Staffing and funding	X			Still a priority. Based on storms and recent flooding events
Neptune, Township of	Seek funding for bank stabilization along Shark River. Prepare plan and specifications for Bank Stabilization location, extents and cross-section	M	Flooding, storm	Township Committee	X			Staffing support and funding	X			Portions of this work have been completed. Awaiting additional funding to continue this project.
Neptune, Township of	Seek funding for lake dredging, preparation of plans and specifications for dredging of Lake Fletcher/Wesley/Alberta	M	Flooding, storm, environmental	Township Committee, Environmental	X	X		Obtained funding from NRCS for Wesley/Fletcher; still need funding for Alberta	X			Funding received; permitting, testing plans and specs in process.
Neptune, Township of	Preparation of plans and specifications for construction of salt dome	M	Storm, environmental	Township Committee, Engineering	X			Completed		X		Project completed.
Neptune, Township of	Preparation of hazard overlay zones	L	Storm, flooding	Township Committee	X	X		Ongoing with GIS consultant based on change in mapping	X			Can not be completed until adaption of final maps.
Neptune, Township of	Study to determine extent of beach replenishment at Ocean Grove. Preparation of plans and specifications for same	L	Flooding, storm	Township Committee, Engineering	X			Working with ACOE on project plans and specs for completion	X			Awaiting ACOE project post Sandy Beach replenishment.

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Ocean, Township of	Set up detention pond and berm system to prevent future flooding for Poplar Brook	H	Hurricane, tropical storm, nor'easter, winter storm, flood, storm surge, tsunami	Twp Manager, DPW, OEM, Twp Engineer, Army Corps, State DEP					X		Looking for funding and assistance to perform studies
Ocean, Township of	Widen culverts under roadways in three different streets for Poplar Brook	H	Hurricane, tropical storm, nor'easter, winter storm, flood, storm surge, tsunami	Twp manager, DPW, OEM, Twp Engineer, Army Corps, State DEP, County Bridge Dept., State DOT					X		Held meetings with County Officials (county property involved) to try to come up with a study to perform and try to seek grant money.
Ocean, Township of	Build a detention pond to gather more water and prevent large amounts of water to move downstream in Whalepond Brook	H	Hurricane, tropical storm, nor'easter, winter storm, flood, storm surge	Twp Manager, DPW, OEM, Twp Engineer, Army Corps, State DEP				X			County officials are now on board
Ocean, Township of	Widen culverts under roadways in three different streets for Whalepond Brook	H	Hurricane, tropical storm, nor'easter, winter storm, flood, storm surge, tsunami	Twp manager, DPW, OEM, Twp Engineer, Army Corps, State DEP, County Bridge Dept., State DOT					X		Held meetings with County Officials (county property involved) to try to come up with a study to perform and try to seek grant money.
Ocean, Township of	Planning and funding improvements to telecom and electrical systems at critical facilities including facilities used for EOC and as local shelters	M	Hurricane, tropical storm, nor'easter, winter storm, flood, storm surge, tsunami	Twp Manager, DPW, OEM			X				Looking for funding and assistance to perform studies
<b>After Hurricane Sandy there are additional areas of the Township that require mitigation. There is a significant storm surge in coastal areas. Especially with the head walks in the waterway which is needed to move water from the structures and the infrastructure. In addition there are structures that need to be elevated or demolished. There are some pumping stations that need water tight doors in low lying properties so as to minimize their impact in the future.</b>											

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<b>Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: Irene and Sandy have brought forth a new perspective on the value of mitigation and how it could be cost effective to take proactive actions prior to an event</b>											
Oceanport, Borough of	Infrastructure-critical facility - relocation of borough hall and DPW, Phase 1 -acquire property for relocation	H - Priority 1	Hurricane and tropical storms, nor'easter, storm surge, flood	Mayor/Council, Borough Engineer				X		X	Still important project to get done, now that Boro Hall has limited use
Oceanport, Borough of	Infrastructure-critical facility - relocation of borough hall and DPW, Phase 2 - Construction of New Facility	H - Priority 1	Hurricane and tropical storms, nor'easter, storm surge, flood	Mayor/Council, Borough Engineer				X		X	Still important project to get done, now that Boro Hall has limited use
Oceanport, Borough of	Remediation of Turtle Mill Floodway - stream cleaning	M - Priority 2	Hurricane and tropical storms, nor'easter, storm surge, flood	Borough Engineer				X		X	County has worked out a plan with DEP for permitting and towns supply engineering and some related costs
Oceanport, Borough of	Infrastructure - examination of storm water system, Port-au-Peck section; Phase 1	M - Priority 3	Hurricane and tropical storms, nor'easter, storm surge, flood	Borough Engineer				X		X	since storm, important to get the system cleaned of debris and function properly
Oceanport, Borough of	Infrastructure - examination of storm water system, Port-au-Peck section; Phase 2	M - Priority 3	Hurricane and tropical storms, nor'easter, storm surge, flood	Borough Engineer				X		X	since storm, important to get the system cleaned of debris and function properly
Oceanport, Borough of	Infrastructure - Remediation Roadway Flooding - Grading, Elevating, or backflow preventers	L - Priority 4	Hurricane and tropical storms, nor'easter, storm surge, flood	Borough Engineer				X		X	Where needed, engineer now considers using curbing to help direct water and install new style storm drains

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Red Bank, Borough of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: <b>The loss of Infrastructure + Property due to Irene + Sandy has prioritized mitigation efforts.</b>											
Red Bank, Borough of	Enact hazard zoning/ordinances. Specifically, allow variances on height of homes in flood areas to place foundations above floodplain	H	Flooding	Mayor and Council								
Red Bank, Borough of	Develop plans for a community emergency alerting system	H	All	Mayor and Council, Police/Fire/OEM				X				Variances most are not in flood plain
Red Bank, Borough of	Develop plans and mitigation steps to reduce or eliminate flood and erosion to Marine Park	H	Flooding due to coastal floods, hurricanes and nor'easters	Mayor and Council				X				Being damaged equipment continue to maintain.
Red Bank, Borough of	Reduce the possibility of flood damage by conducting a storm management maintenance plan and cleaning and maintaining the existing system	M	All	Mayor and Council				X				Bulkhead replaced Electrical equipment to be relocated.
Red Bank, Borough of	Planning for and funding improvement to infrastructure system of the borough water and sewer system	M	All	Mayor and Council				X				Ongoing maintenance.
Red Bank, Borough of	Reduce the possibility of damage to emergency facilities by conducting an evaluation to determine existing level of protection and implementing recommendations	M	All	Mayor and Council				X				Some mitigation underway
Roosevelt, Borough of	Did not participate in the 2009 Plan			Mayor and Council				X				Additional work required. Evaluation completed recommendations made

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Rumson, Borough of	Implement early flood warning system for Shrewsbury and Navesink Rivers as a shared service with other towns along the rivers	M - #1	Flooding, nor'easter, hurricane, storm surge	Mayors and Council members of all river towns; Monmouth University; Stephens Institute of Technology	X		X	Ongoing expansion of equip, ongoing information being provided for data base and ongoing maint for system.	X	No Change	
Rumson, Borough of	Enact new FEMA flood maps as part of planning and zoning regulations	M - #2	Flooding, nor'easter, hurricane, storm surge	Mayor and Council, Planning Board, Zoning Board	X		X	ABFE adopted, awaiting new BFE Maps in late 2013 or early 2014.	X	Awaiting the new Final BFE Maps to be adopted by FEMA, NFIP and the State of NJ.	
Rumson, Borough of	Implement stream and pond cleaning to speed drainage of flood prone areas and follow up with regular maintenance	M - #3	Flooding, heavy rain, nor'easter, hurricane, storm surge	Mayor and Council, Public Works, Monmouth County Mosquito Commission		X	X	Work was completed to the extent the Borough could complete the same given our current equipment available to us.	X	In addition to items listed, the Borough plans to add the cleaning, clearing and general maintenance of Storm Drain Tide Valves.	
Rumson, Borough of	Upgrade shelter facility located at Rumson Fair Haven Regional High School, including emergency power facility	H - #4	Flooding, nor'easter, hurricane, extreme heat, winter storm	Mayor and Council, Board of Education, OEM			X	Lack of Funding for the emergency power installations.	X	During Irene and Sandy, the need for facilities with emergency power was noted. The Borough will be adding the Rumson Middle School Cafeteria to the list of buildings requiring Emergency Power.	
Rumson, Borough of	Continue to maintain current warning systems that are already operational including website, AM radio, Reverse911 calling system and emergency siren alerting system.	H - #5	Nor'easter, hurricane, flooding, storm surge, extreme heat, winter storm	Mayor and Council, OEM Director, Police		X	X	All were continued since 2009 and will be continued into the future.	X	The Borough plans to expand the ways it provides information to its residents in the near future, based on the knowledge gained from Irene and Sandy.	
Rumson, Borough of	Tree maintenance of shade trees along streets in community; increase effectiveness of Public Works to clear trees in event of storm	M/H - #6	Wind and rain events, winter storms	Mayor and Council, OEM Director, Public Works		X	X	Ongoing maintenance of trees including Borough owned park trees and street trees was completed by the Borough.	X	No Change	
<b>Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: Given Hurricane Sandy, we are updating all our planning and our needs going forward. We have applied for planning Grants and are in the process of expanding our vision given the significant damage due to storm surge not seen in the Borough before.</b>											

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<b>Sea Bright, Borough of</b>											
<b>Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: Since super storm Sandy we have become more proactive than reactive.</b>											
Sea Bright, Borough of	Develop a storm, flood and wind action plan which will include police, fire, and public works volunteer groups to allow Sea Bright to be methodically protected during a storm or flood event	H	Flood, wind, storm, surge, wave action, Hurricanes, Nor'easter	Mayor & Council, Emergency Management	X			Not Initiated			
Sea Bright, Borough of	Explore and implement a project to elevate private homes in flood prone areas with state or federal funds	H	Flood, wind, storm, surge, wave action, Hurricanes, Nor'easter	Construction Office	X			Initiated but Not Completed		X	OEM runs monthly meetings with police, fire and public works to review plans and discuss procedures and policy.
Sea Bright, Borough of	Support and create a hazardous material response team including training and equipment to protect by the citizens of Sea Bright and the environment, rather than relying on state, federal or county agencies	H	Flood, wind, storm, surge, wave action, Hurricanes, Nor'easter	Emergency Management				Completed		X	LACK OF INFORMATION AND A STRUCTURE FOR OBTAINING FUNDS
Sea Bright, Borough of	Develop a town wide strategy to aid both local, county, state and federal officials to provide the replacement of sand along the Atlantic Ocean Beach for protection of both the NJSH Route 36 corridor, local residences, businesses and bulkheads	H	Flood, wind, storm, surge, wave action, Hurricanes, Nor'easter	Mayor and Council				Completed		X	Borough does not have the equipment or funding to staff this program.
Sea Bright, Borough of	Develop a town wide strategy to aid both local, county, state and federal officials to provide the reconstruction of bulkheads along the Shrewsbury River for protection of both the NJSH Route 36 corridor, local residences, businesses and bulkheads	H	Flood, wind, storm, surge, wave action, Hurricanes, Nor'easter	Mayor and Council				Completed		X	Borough is currently creating emergency Berms to protect vulnerable areas. Beach Replenishment from Army Corps of Engineers has been completed.
Sea Bright, Borough of	Encourage citizens and businesses when rebuilding or modifying their buildings to provide underground utilities in order to promote utilities that are generally not prone to damage during high winds and flooding incidents	M	Flood, wind, storm, surge, wave action, Hurricanes, Nor'easter	Mayor and Council, Building Department				Completed		X	Anchorage bulkhead is completed. Facility at anchorage is in progress. FEMA projects are currently being reviewed for a scope change. In conversations with state and federal agencies for riverfront bulkheads.
Sea Bright, Borough of	Include in Sea Bright Day a public education and awareness component for hazard mitigation, citizen safety, include mitigation techniques highlighting our available resources	M	Flood, wind, storm, surge, wave action, Hurricanes, Nor'easter	Mayor and Council, Clerk				Completed		X	Residents have expressed interest in this through the Sea Bright 2020 process. There is a committee dedicated to researching this issue and discussions are ongoing with utility companies to see how to proceed with this.
Sea Bright, Borough of	Provide additional support and training for the Building Department on wind and flood resistant structures, including information on hurricane clips, wind shutters, beyond the minimum building code	M	Flood, wind, storm, surge, wave action, Hurricanes, Nor'easter	Building Department				Completed		X	The Mayor and Council hold public meetings three times a month and discuss this information with community members in a public forum. The Borough also updated the website with additional resources for residents. The Borough has also applied for reentry to the CIS.
Sea Bright, Borough of								Completed		X	In an effort to make the building process as easy as possible for residents and business owners, the Borough has hired additional staff and extended hours for professionals. Additionally, continuing education for the Floodplain manager and OEM Coordinator has been a priority, ensuring that our professionals are up to date on the current codes and standards.

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Sea Girt, Borough of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: The borough of sea girt has identified four main areas of concern since our last plan - 1. stormwater management and the outflow of such through the outflow pipes - inadequate 2. public information - need for an AM radio station, public warning signage, alert warning sirens and PA for the town 3. protection and management of low lying areas and houses susceptible to flooding and damage from tidal water - increased dunes, dune height and enacting local zoning mitigation ordinances when necessary - this also includes raising of houses in low lying areas ; accurate flood mapping is an absolute necessity 4. increased protection and operations of our CIS and operational centers during storm period; back-up generators are necessary for this purpose. Infrastructure improvements, including hardening of protective measures in and around the Stockton Substation (JCP&L) are necessary as well.											
Sea Girt, Borough of	Enact hazard zoning/ordinances. Specifically allow variances to height of homes in flood areas to place foundations above floodplain	H	Flooding	Mayor and Council		x			houses in the low lying areas were subject to flooding, Houses in the susceptible area on the beachfront, would be candidates for raising but property owners have not shown interest.	x		Houses in flood zones need to be addressed with possible raising; also, restoration of the dune system in conjunction with the plan prepared by Dr. Stewart Farrell of Stockton College should help mitigate future damage.
Sea Girt, Borough of	Develop mitigation steps to reduce damage and losses due to flooding caused by inland and coastal floods, hurricanes and nor'easters at local ponds (Wreck Pond) through control of water flow and through more efficient drainage to ocean. Specifically, pumps at Wreck Pond to control floodwaters and use of weirs in strategic locations to control flow (all done in conjunction with Spring Lake).	H	Flooding due to inland and coastal floods, hurricanes and nor'easters	Mayor and Council		x		Wreck Pond outflow handled by spring lake and it is open for flood control, south end of town stormwater drains were replaced, to help drainage, outflow pipe at Baltimore Blvd. needs replacing	x			cut in dune and pumps installed by SPLK has helped this issue; lengthening of the outfall pipes at Baltimore and Trenton Blvds. should be included in future mitigation projects, especially with the renourishment of SG beaches expected to be completed by March 2014 to avoid any detrimental consequences.
Sea Girt, Borough of	Reduce the possibility of flooding at Wreck Pond by implementing stormwater retention projects identified by the Wreck Pond Regional Stormwater Management Committee in Subregion 12 watershed	H	Flooding due to inland and coastal floods, hurricanes, and nor'easters	Mayor and Council		x		handled by spring lake - pond is open for tidal flow now	x			see above; measures taken by Spring Lake must be reviewed and vetted for potential impact on the Sea Girt side of the pond.
Sea Girt, Borough of	Reduce the possibility of flood damage by conducting a Stream Maintenance Plan and cleaning out sediment at Wreck Pond and Black Creek - will need to work with Spring Lake, Spring Lake Heights, and Wall on this.	M	Inland and coastal flooding (has additional impact on health and beach environment)	State DEP, Mayor and Council		x		dredging in the works w DEP	x			pond needs to be dredged - was in works with DEP to complete
Sea Girt, Borough of	Planning for and funding improvements to communications and electrical systems at critical facilities including facilities used for EOC and as local shelters	H	All	Mayor and Council		x		needs new alert system, am station, generators needed, at cr	x			applied for HMGP funding for new alert system, public signage, am radio station and generator funding for CIS
Sea Girt, Borough of	Reduce the possibility of damage to emergency facilities by conducting an evaluation to determine existing level of protection, particularly to flooding, and implementing recommendations	M	All	Mayor and Council		x		The acquisition of generators for critical facilities is our goal; HMGP grants will be sought to offset some of the costs.			x	The Borough is still seeking funds to install generators at critical facilities, but upon review, the installation of a bulkhead at this location was found to be a less effective flood control measure than originally projected.

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<b>Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: Borough has taken additional steps to better maintain existing infrastructure that contributed to flooding in the past. Financing future projects is uncertain due to lack of capital funding.</b>												
Shrewsbury, Borough of	Upgrade stormwater infrastructure on Haddon Ave	H	Flooding	Borough Engineer	X			Funding limitations preclude replacement/upgrade of drainage infrastructure. NIDOT corrected downstream piping defect and improved situation.	X			Limited improvement due to NIDOT work. Awaiting capital funding.
Shrewsbury, Borough of	Upgrade stormwater infrastructure on Monroe Ave	H	Flooding	Borough Engineer, Monmouth County, NIDEP oversight		X		Funding limitations preclude replacement/upgrade of drainage infrastructure. Design progressed through preliminary stages to permitting point. Awaiting capital funding to complete.	X			Awaiting capital funding for the project. Low priority at this point.
Shrewsbury, Borough of	Upgrade stormwater infrastructure on Trafalgar Pl	H	Flooding	Borough Engineer		X		Routine cleaning and deslagging by DPW has been effective at controlling flooding. Awaiting funding for capital upgrade.		X		Tidal waters infiltrate the storm sewer system during storms but routine maintenance and cleaning lessens the impact. Low priority with capital funding at this time.
Shrewsbury, Borough of	Stream Management	H	Flooding	Borough Engineer/DPW, NIDEP permits required		X		Jurisdiction deferred to Monmouth County. Stream cleaning by Mosquito Commission on-going.	X			Recent storms have accelerated projects by Mosquito Commission. Awaiting County commitment.
Shrewsbury, Borough of	Upgrade stormwater infrastructure on Newman Springs Road	H	Flooding	County and Borough Engineer			X	No action by Monmouth County thus far. Borough lacks jurisdiction to initiate improvements.			X	Monmouth County has jurisdiction over this county road and infrastructure.
Shrewsbury, Borough of	CERT programs and public outreach, including potable water conservation and drought limitations	M	Various	OEM		X		Continuous effort.			X	Expanded CERT program with additional members and training. Identified private wells

Jurisdiction	Mitigation Action	Previous Priority	Hazard(s) Addressed	Responsible Party/Parties to Implement	Status - Check One				Status Details	Relevance - Check One			Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy		
Shrewsbury, Township of													
Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: No major changes since 2009, no new development or changes to the Townships infrastructure													
Shrewsbury, Township of	Action 2C - Planning for funding and improvements to telecomm and electrical systems at critical facilities including EOC and local shelters	M	All	Mayor and Council	X				This project hasn't been completed due to lack of funding	X			We are going to work on getting this project done in steps. Previously the Township used shared service for OEM , currently we have our own OEM staff and they are working on a plan to get the communications equipment updated and an updated EOC. First step is getting new Radio Equipment.
Shrewsbury, Township of	Action 1E - Develop storm water management plan	M	Health and environment	Mayor and Council		X			We have implemented and maintained and active plan to manage our storm water needs	X			No new issues have arose since 2009 we will stick with our current management plan and maintained schedule

Jurisdiction	Mitigation Action	Previous Priority	Hazard(s) Addressed	Responsible Party/Parties to Implement	Status - Check One			Status Details	Relevance - Check One		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity		Not Initiated	Still Relevant - Carry Forward to Updated Mitigation Strategy	
<p><b>Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan:</b> Priorities have changes in that it is critical that a solution to controlling inflow and out flow of water into and out of Lake Como and werck pond is a necessity. Working on a multi-jurisdictional solution with surrounding towns to control run off. Looking to upgrade infrastructure to meet current codes and standards of outside agencies.</p>											
Spring Lake, Borough of	Action 1C - Enact hazard zoning/ordinances. Specifically allow variances on heights of homes in flood areas to place foundations above floodplain.	H	Flooding	Mayor and Council	x			enacted after hurricane Irene and amended after Sandy to be between 4 and 5 feet above previous base flood elevation	x		Ordinance is adopted.
Spring Lake, Borough of	Action 4E - Develop mitigation steps to reduce damage and losses due to flooding caused by inland and coastal floods, hurricanes and nor'easters at local ponds (Wreck Pond and Lake Como) through control of water flow and through more efficient drainage to ocean. Specifically, pumps at Wreck Pond and/or Lake Como to control floodwaters and sue of weirs in strategic locations to control flow.	H	Flooding due to inland and coastal floods, hurricanes, and nor'easters	Mayor and Council	x		Both Wreck pond and Lake Como are still in the permitting process.	x			No change from 2009 plan, more emphasis being place on this project. Spring lake Boro taking priority to control flooding in both bodies of water.
Spring Lake, Borough of	Action 4F - Reduce the possibility of flood damage by conducting a stream maintenance plan and cleaning out sediment at Wreck Pond and Black Creek	M	Inland and coastal flooding, (has additional impact on health and beach environment)	State DEP, Mayor and Council	x			Minor maintenance sediment removal has and continues to take place. Full sediment dredging will only be possible after the USACE study to be conducted at Wreck pond.	x		No change from 2009 plan.
Spring Lake, Borough of	Action 4H - Reduce the possibility of flooding and increase early warning of potential flood conditions at Wreck Pond by implementing stormwater retention projects identified by the Wreck Pond Brook Regional Stormwater Management Plan (RSWMP) committee in Subregion 12 watershed and by implementing sensor systems (preferably USGS) in the watershed	H (highest priority)	Flooding (due to inland and coastal floods, hurricanes, and nor'easters)	Mayor and Council	x			Use reverse 911 to notify residents of flooding at Wreck Pond. Decision on sensor waiting on USACE study and funding.	x		completed
Spring Lake, Borough of	Action 2C - Planning for funding and improvements to telecomm and electrical systems at critical facilities including EOC and local shelters	M	All	Mayor and Council	x			Improved telecommunications system in EOC. Emergency generators purchased for critical facilities and shelter.	x		completed
Spring Lake, Borough of	Action 14A - Reduce the possibility of damage to emergency facilities by conducting an evaluation to determine existing level of protection, particularly to flooding, and implementing recommendations	M	All	Mayor and Council	x			Implementing identified improvements	x		completed

Jurisdiction	Mitigation Action	Previous Priority	Hazard(s) Addressed	Responsible Party/Parties to Implement	Status - Check One			Status Details	Relevance - Check One		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
Spring Lake Heights, Borough of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: Concerns of electrical power outage incidences have become more frequent										
Spring Lake Heights, Borough of	Action 1C - Explore the need for hazard zoning and high risk hazard land use ordinances, raising utilities, exceeding height requirements	H	Flooding, nor'easters, hurricanes, storm surge, heavy rain events	Mayor and Council	X			awaiting grant funding, awaiting formal adoption ABFE/working flood maps.	X		Proposed flood mapping will impact height requirements.
Spring Lake Heights, Borough of	Action 4D - Continue to implement the best mitigation practices for floodplain areas	H	Flooding, nor'easters, hurricanes, storm surge, heavy rain events	Mayor and Council	X			awaiting grant funding, awaiting formal adoption ABFE/working flood maps.	X		Proposed flood mapping will impact height requirements.
Spring Lake Heights, Borough of	Action 2B - Create a mitigation outreach program to prepare residents for disaster	H	Flooding, nor'easters, hurricanes, storm surge, heavy rain, drought, extreme heat, winter storm	Mayor and Council			X	personnel and funding issues	X		Utilizing Reverse 911 and Borough Web Site for Emergency and Disaster related information

Jurisdiction	Mitigation Action	Previous Priority	Hazard(s) Addressed	Responsible Party/Parties to Implement	Status - Check One			Status Details	Relevance - Check One		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity		Not Initiated	Still Relevant - Carry Forward to Updated Mitigation Strategy	
Tinton Falls, Borough of	<b>Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan:</b> Local priorities remain essentially unchanged since the last version of the plan. However, personnel responsible for implementing portions of the plan have better understanding of their roles and responsibilities.										
Tinton Falls, Borough of	Action 1E - Develop a stormwater management plan that includes subdivision regulations to control runoff; both for flood reduction and to minimize saturated soils on steep slopes that can cause landslides. (Sycamore Avenue storm drainage, Water Street erosion (Pine Brook))	H	Flooding Landslides	Mayor and Council	X			Stormwater management ordinance is in place. Portion of Water Street streambank was restored after damages by hurricane Irene. Other sections of Water Street along Pine Brook continue to be monitored.	X		Stormwater management ordinance in place. Continued monitoring of development within Pine Brook watershed.
Tinton Falls, Borough of	Action 11C - Ice and windstorm resistant trees and landscaping practices to reduce related hazards (throughout municipality)	H	Winter storms	Mayor and Council	X			Tree maintenance program to address potentially hazardous trees and limbs. New shade tree installations take consideration to ice and windstorm hazards.	X		Tree maintenance program to address potentially hazardous trees and limbs. New shade tree installations take consideration to ice and windstorm hazards.
Tinton Falls, Borough of	Action 9B - Locally identify and map specific areas of potential slope failure and limit future development in these areas (Water Street into Pine Brook)	H	Landslides	Mayor and Council	X			Adoption of FEMA Flood Hazard Ordinance and updated FEMA DFIRM (and ABFE and Preliminary Work Maps as applicable)	X		Adoption of Preliminary Work Maps from FEMA as applicable.
Tinton Falls, Borough of	Action 4F - Conduct a routine maintenance program and seek financial assistance to clean out stream segments with heavy sediment deposits (Whale Pond Brook, Jumping Brook)	H	Flooding by hurricanes, severe storm, nor'easters	Mayor and Council	X			Coordinating efforts with Monmouth County Mosquito Commission and adjoining Municipalities	X		Coordinating efforts with Monmouth County Mosquito Commission and adjoining Municipalities
Tinton Falls, Borough of	Action 4G - Develop specific mitigation solutions for flood-prone roadways and intersections under the leadership of NUDOT. Develop a work plan for when sites will be surveyed and what role the Borough can play in selection and implementation of mitigation activities (County Highway 13A, County Highway 16, Hope Road)	H	Flooding by hurricanes, severe storm, nor'easters	Mayor and Council	X			Coordinating efforts with NJDOT and Monmouth County Engineering for various areas identified. More specifically at Sycamore Avenue and Homestead Parkway East; Sycamore Avenue and Old Farm Road; and Asbury Avenue at Pine St and Essex Road	X		Continue coordination with applicable agencies to advance programs.
Tinton Falls, Borough of	Action 4H - Implement identified stormwater recharge, rate or volume projects identified in Regional Stormwater Management Plans to decrease 'flash' in streams during/after storm events	H	Flooding by hurricanes, severe storm, nor'easters	Mayor and Council	X			Stormwater management ordinance is in place.	X		Stormwater management ordinance is in place.
Tinton Falls, Borough of	Action 9D - Consider adopting a steep slope ordinance, if one is not already in place, to regulate development on these higher risk areas (Water Street, Jumping Brook)	H	Landslides	Mayor and Council		X		Steep Slope ordinance is not yet in place, but the more critical stormwater management ordinance is in place and being enforced.	X		Mitigation strategy has not changed.
Tinton Falls, Borough of	Action 2B - Create a mitigation outreach program to prepare residents for disasters. Build and support local capacity to enable the public to prepare for, respond to, and recover from disasters.	M	All	Mayor and Council		X		Introduction of Code Red (reverse 911) to alert residents of impending hazards has been utilized during recent events. Code Red Week has increased enrollment significantly since inception.	X		Continue use of Code Red for emergency notifications.
Tinton Falls, Borough of	Action 2E - Support and fund Community Response Team (CERT) programs that also include a mitigation component. Build and support local capacity to enable the public to prepare for, respond to, and recover from disasters (note: borough has existing CERT program)	M	All	Mayor and Council		X		Significant investments made in CERT and OEM programs during current administration	X		Continue evaluation of CERT and OEM programs to build on current success.
Tinton Falls, Borough of	Action 10A - In consultation with NJFFS, local fire service, develop mapping of wildland/urban interface areas	M	Wildfires	Mayor and Council, NJFFS, local fire service		X		Work with fire service	X		Mitigation strategy has not changed.
Tinton Falls, Borough of	Action 10C - In consultation with NJFFS, local fire service, review local EOPs for possible wildfire components regarding fire rescue, alert warning, and communications	M	Wildfires	Mayor and Council, NJFFS, local fire service		X		Work with fire service and community outreach	X		Mitigation strategy has not changed.

Jurisdiction	Mitigation Action	Previous Priority	Hazard(s) Addressed	Responsible Party/Parties to Implement	Status - Check One				Status Details	Relevance - Check One		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
Tinton Falls, Borough of	Action 10E - Initiate a public outreach program for homeowners to reduce the possibility of damage and losses due to wildfires	M	Wildfires	Mayor and Council, NJFFS, local fire service	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Periodic public outreach programs and Code Red alerts during times with high hazard potential	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Continue public outreach and educational programs with continued use of Code Red alerts.
Tinton Falls, Borough of	Action 10I - Mitigation for streets, Highways and roads that provide key fire access and fuel breaks	M	Wildfires	Mayor and Council, NJFFS, local fire service	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Work with fire service, Green Acres and State Parks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Mitigation strategy has not changed.
Tinton Falls, Borough of	Action 11A - Promote (or purchase, for critical facilities) NOAA weather radios	L	Winter storms	Mayor and Council	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Mitigation strategy has not changed.
Tinton Falls, Borough of	Action 11B - Educate residents about driving in winter storms and handling winter-related health effects	L	Winter storms	Mayor and Council	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Periodic public outreach programs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Continue periodic public outreach and educational programs

Jurisdiction	Mitigation Action	Previous Priority	Hazard(s) Addressed	Responsible Party/Parties to Implement	Status - Check One			Status Details	Relevance - Check One		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity		Not Initiated	Still Relevant - Carry Forward to Updated Mitigation Strategy	
<b>The Borough priorities have changed based upon some projects being completed. However, the highest priority is still the roadway elevation of Florence Avenue since this is a major access road for the Borough.</b>											
Union Beach, Borough of	Raise the roadway elevation of the floodprone section of Florence Avenue	1	Flooding	Borough Engineer			X	Lack of Funding Available.	X		The Borough has to main egress and ingress in the municipality. Both roadways flood and it is a priority of the Borough to elevate these Roadways.
Union Beach, Borough of	Raise the roadway elevation of the floodprone section of Jersey Avenue	2	Flooding	Borough Engineer	X					X	
Union Beach, Borough of	Raise the roadway elevation of the floodprone intersection of Spruce Street and Center Street	3	Flooding	Borough Engineer			X	Lack of Funding Available.	X		These two roadways are priorities for the Borough since they are located in a residential community and provide access to the park and residential structures. When these roadways flood homeowners cannot access their homes.
Union Beach, Borough of	Relocation of Harris Garden Fire Company Building to a site outside of the floodprone area	4	Flooding	Mayor and Borough Council, Office of Emergency Management, Fire Department			X	Lack of Funding Available.	X		This is priority for the Borough in order for them to continue to provide firefighting services during flooding events.
Union Beach, Borough of	Raise the elevation of the floodprone Scholer Park parking lot	5	Flooding	Borough Engineer	X					X	
Union Beach, Borough of	Maintenance of the existing shore protection features (bulkhead, beach area)	6	Coastal erosion and wave action	Borough Engineer, Public Works			X	The Borough continues to maintain these features through their existing capital budget and/or when need apply for funding through other grant programs.	X		This is the borough's first line of defense against wave actions and flooding during storm events.
Union Beach, Borough of	Cleaning and maintenance of the existing storm drains and inlets	7	Flooding	Public Works			X	The Borough continues to maintain these features through their existing capital budget	X		These are priority for the Borough in order to ensure property drainage of flood waters and to reduce flooding events in the Borough.
Union Beach, Borough of	Cleaning and maintenance of receiving waterways and creeks	8	Flooding	Public Works, County Mosquito Commission			X	The Borough continues to maintain these features through their existing capital budget	X		These are priority for the Borough in order to ensure property drainage of flood waters and to reduce flooding events in the Borough.
Union Beach, Borough of	Installation of flood warning signs in floodprone areas	9	Flooding	Office of Emergency Management				Lack of Funding Available.	X		Since many roads in the borough flood it is imperative for the borough to have proper signage in order to reduce risk and damage to personal property.
Union Beach, Borough of	Upgrade Borough's existing warning system	10	Flooding, coastal erosion, and wave action	Office of Emergency Management, Police Department			X	Lack of Funding Available.	X		Upgrading the existing system will keep the system capable with surrounding communities and the county.
Union Beach, Borough of	Upgrade emergency generator at police headquarters	11	Flooding, coastal erosion, and wave action	Office of Emergency Management, Police Department	X					X	
Union Beach, Borough of	Implementation of the Army Corps of Engineers Shore Protection and Flood Control Project	12	Flooding, coastal erosion, and wave action	Mayor and Borough Council, ACOE, NJDEP			X	Lack of Funding Available.	X		It has been stated by the ACOE that this project would protect the Borough against major flooding event.

Jurisdiction	Mitigation Action	Previous Priority	Hazard(s) Addressed	Responsible Party/Parties to Implement	Status - Check One			Status Details	Relevance - Check One		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity		Not Initiated	Still Relevant - Carry Forward to Updated Mitigation Strategy	
Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: LOCAL PRIORITIES FOCUS ON REPETITIVE LOSS LOCATIONS, PROACTIVELY MITIGATING THE POTENTIAL FOR FLOOD OR TO REDUCE FLOODING AND TO MITIGATE WIND DAMAGE TO REDUCE PROPERTY DAMAGE, UTILITY LOSS AND/OR ROAD CLOSURE & DAMAGE.											
Upper Freehold, Township of	Action 4D - Ellisdale Road - Installation of sheet piling, increase culvert size, construct ditching and reconstruction of 700 LF of roadway at Bridge U-52	H (#1)	Flooding due to inland flooding, hurricanes and nor'easters	Township Committee	X			Project completed in 2011.		X	Project completed
Upper Freehold, Township of	Action 4F - Cleaning of sediment and debris and removal of fallen trees which block waterways. Examples are at Bridges U-15 Breza Road and U-52 Ellisdale Road	H (#2)	Flooding due to fallen trees caused by storm drainage	Township Committee		X		Project completed in 2011. Upper Freehold Township does not have jurisdiction over these County bridges. However, Upper Freehold Township will continue to advise County of known issues as appropriate.	X		Monmouth County maintains all bridges within the Township of Upper Freehold. UFT will conduct meetings to advise Monmouth County of known issues.
Upper Freehold, Township of	Action 4D - Roadway bank protection at Bridge U-34 Sharon Station Road; Bridge U-53 Provinceline Road; and Bridges U-47 & U-48 Wainsmill Road	H (#3)	Roadway erosion caused by flooding	Township Committee		X		Project completed in 2011. Upper Freehold Township does not have jurisdiction over these County bridges. However, Upper Freehold Township will continue to advise County of known issues as appropriate.	X		Monmouth County maintains all bridges within the Township of Upper Freehold. UFT will conduct meetings to advise Monmouth County of known issues.
Upper Freehold, Township of	Educate residents about what to do before, during and after a flood	1	Flooding	OEM and Deputy OEM			X	Staff availability has been the limiting factor. This initiative will be of an on-going nature once it has launched in order to continue to advise and educate the community on flood hazards and the resources available to manage flood crisis events.		X	Education program under development. Relevant content under development for Upper Freehold Township and UFT OEM websites. Awareness campaign under development to utilize EverBridge Community Awareness/Notification Systems as well as OEM Facebook and website announcements.
Upper Freehold, Township of	Develop an inventory of addresses that could be affected by a wildfire. Use inventory and develop a route alerting system.	2	Wildfires	OEM and Deputy OEM		X		Staff availability has been the limiting factor. This initiative will be of an on-going nature once it has launched in order to maintain an updated list of potential risks as well as contact information.		X	Inventory and contact information is currently being identified and compiled. Once complete, an awareness campaign and notification/alert test will be conducted using the EverBridge Community Notification System.

Jurisdiction	Mitigation Action	Previous Priority	Hazard(s) Addressed	Responsible Party/Parties to Implement	Status - Check One				Status Details	Relevance - Check One			Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	MITIGATION Strategy - Omit from Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
<b>Wall, Township of</b>													
Wall, Township of	Action 10A - In conjunction with NJFFS and local Forest Fire Warden, develop mapping of wildland/urban interface areas	M	Wildfires	Township Committee	X			Funding & Staffing		X			The project is being omitted from the updated mitigation strategy because other mitigation actions with a higher priority need to be addressed.
Wall, Township of	Action 2B - Create a mitigation outreach program. Specifically, by using a website and media outreach to assist residents prepare for disasters	M	All	Township Committee	X						X		The project is being omitted from the updated mitigation strategy because it was successfully completed.
Wall, Township of	Action 10B - Develop inventory of addresses for route alerting during wildfire emergencies that require public warning and information. Specifically by implementing reverse telephone notification system	H	Wildfire + All	Office of Emergency Management, Police Department				Funding and Staffing		X			The project is being omitted from the updated mitigation strategy because other mitigation actions with a higher priority need to be addressed.
Wall, Township of	Action 3B - Develop and adopt an emergency water allocation strategy to be implemented during severe drought	H	Drought	Township Committee	X			NJ American Water is in the process of building a 2M gallon tank in the township's jurisdiction. The township has several different water supplies that it relies on, but an emergency allocation strategy will be finalized when the new tank is completed.			X		The project is being omitted because the New Jersey Water Supply Authority is constructing a new 2-million gallon ground level storage tank just south of the Mansquan Water Treatment Plant. The completion date of the project is scheduled to be completed prior to the mitigation strategy update.
Wall, Township of	Action 4H - Reduce the possibility of flooding at Wreck Pond by implementing stormwater retention projects identified by the Wreck Pond Regional Stormwater Management Committee in Subregion 12 watershed	H	Flooding due to inland and coastal floods, hurricanes, and nor'easters	Township Committee and Township Engineer							X		The project is being omitted because it was completed. In 2011, 4,250 cubic yards of silt runoff were excavated from the tidal pond on the boundary of Sea Girt, Spring Lake, Spring Lake Heights and Wall.

Jurisdiction	Mitigation Action	Previous Priority	Hazard(s) Addressed	Responsible Party/Parties to Implement	Status - Check One				Status Details	Relevance - Check One			Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy		
West Long Branch, Borough of	Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan: No notable changes since last plan.												
West Long Branch, Borough of	Drainage remediation project servicing West Long Branch, Long Branch, Monmouth County property, and Monmouth University property	H (#1)	Hurricane, tropical storm, nor'easter, flood	Borough Engineer				x	Lack of funding. Large multi-jurisdictional project.	x			No change from 2009 plan.
West Long Branch, Borough of	Remediation of Turtle Mill Floodway - stream cleaning	M (#2)	Hurricane, tropical storm, nor'easter, flood	Borough Engineer				x	Lack of funding.	x			No change from 2009 plan.

**APPENDIX 1.8 – WORKSHEET 6: PLAN INTEGRATION**



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Plan Integration Worksheet

For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community’s resilience to disasters. “Plan integration” can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

For this Plan Update, FEMA requires:

- a summary of each jurisdiction’s past progress in plan integration over the last planning cycle; and
- a description of plan integration activities that each jurisdiction expects to undertake over the course of the next planning cycle.

This worksheet has been set up, therefore, into two components with each portion focusing on one of the bullets above.

- Demonstration of Progress over the Last Planning Cycle – In the first component of this worksheet, we have reiterated the targeted plan integration activities that were included in the last version of the plan (Section 9, beginning on Page 9-4) in a tabular form, and are asking each community to describe their respective accomplishments since the plan was adopted five years ago.
- Targeted Plan Integration Activities for the Next Planning Cycle – Similarly, in the second component of this worksheet, we have outlined a series of plan integration activities for the next five-year planning cycle. Please document to FEMA the manner in which your community will commit to integrate the hazard mitigation plan into your local government operations from this point forward.

Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring too.

Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

Name: \_\_\_\_\_ Margaret Murnane Brooks \_\_\_\_\_

Title: \_\_\_\_\_ Deputy Coordinator, OEM \_\_\_\_\_

Representing: \_\_\_\_\_ Monmouth County \_\_\_\_\_

Email and Phone: \_\_\_\_\_ mmurnane@mcsonj.org 732-431-7400 x5798 \_\_\_\_\_

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	
<p>A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below. The updated HMP will be referenced in the Monmouth County Comprehensive Master Plan (currently the Monmouth County Growth Management Guide) and will eventually be adopted as an element of the Comprehensive Master Plan upon completion in 2014.</p>	<p style="text-align: center;">x</p>
<p>2. B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008. Various elements of the County's Master Plan (Growth Management Guide) have been updated since 2008 including the Farmland Plan, Coastal Monmouth Plan, Panhandle Plan, and the Monmouth County Road Plan.</p>	<p style="text-align: center;">x</p>
<p>D. If you checked box 2C, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below. Flooding and mitigation are referenced in the Coastal Monmouth Plan, but there is not a specific "mitigation" chapter or element of the plan.</p>	<p style="text-align: center;">x</p>
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below. Conversations within the plan include:</p> <ul style="list-style-type: none"> <li>• Strategic adjustment should be considered as an alternate approach, whereby development in hazard zones are acquired and removed as part of the Coastal Blue Acres Program</li> <li>• Bridges, culverts, and other restrictions along riparian corridors which are seriously undersized be replaced and enlarged or improved to restore riparian corridors and reduce flood hazards</li> <li>• riparian corridor protection</li> <li>• Coastal Routes Evacuation Plan and coordinated evacuation plans</li> </ul> <p>2e. (wording) Maps identify coastal floodplains as environmental features</p> <ul style="list-style-type: none"> <li>• Some conditions such as sedimentation, degraded water quality, and flooding may require a regional approach</li> <li>• Blue &amp; Grey infrastructure</li> </ul>	<p style="text-align: center;">x</p>

<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below.</p>	<p>NA</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)                  B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.                  Not under County jurisdiction</p>	<p>NA</p>
<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.                  D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.                  Not under County jurisdiction</p>	<p>na</p>
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS)                  F. Check here if your community has joined the CRS since 2009.                  G. Check here if your community has dropped out of the CRS since 2009.</p>	<p>na na na</p>
<p>5. A. Check here if your community has a local zoning ordinance.                  B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.                  Not under County jurisdiction</p>	<p>na na</p>
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.                  B. If so, describe.                  There is an overall higher awareness of the importance of Hazard Mitigation; more County Departments are involved with hazard mitigation planning and coordination efforts.</p>	<p>x</p>
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.                  B. If so, describe. Official civil service job descriptions cannot be modified, however, duties within the job description include planning related responsibilities. Monmouth County Planning Division is to assist all 51 NFIP municipalities in reaching a rating of at least a 9 As part of their 2013 Division Work Program, the Planning Division has identified assisting OEM with Hazard mitigation planning; Planning Board staff attended FEMA Hazard Mitigation workshops; Planning Board members were on the County Committee for HMGF 4086 LOI prioritization; also on the HMP Steering Committee</p>	<p>x</p>
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.                  B. Check here if capital or operating budgets already included this when the plan was first adopted.                  Budgets were not specifically revised to include a line item for mitigation however, mitigation funds are included w/in other line items</p>	<p>X</p>

<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).                  B. If so, describe. The County Board of Freeholders passed the resolutions in order for the County to apply for, and accept, PDM funding for the original HMP and the update. The Board did adopt the current plan and will adopt the update when completed.</p>	<p>x</p>
<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).                  B. If so, describe. Through the County's shared services agreement, Monmouth County DPW&amp;E will assist any municipality requesting assistance. In addition, MCDPW&amp;E inspects and cleans streams for debris and siltation.</p>	<p>x</p>
<p>11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.                  B. If so, describe. The County Planning Board addresses hazards as part of their site plan/subdivision review process</p>	<p>x</p>
<p>12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.                  B. If so, describe. Historic structures on County property are maintained by the County Park System. Internal planning to protect these sites from natural hazards is ongoing within the MC Park System.</p>	<p>x</p>
<p>13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities.                  B. If so, describe. DEP for acquisitions and permitting; DOT with County DPW and Eng for infrastructure; and NJOEM for pre and post disaster mitigation grants;</p>	<p>x</p>
<p>14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities.                  B. If so, describe. Monmouth University, Urban Coast Institute (member of County Steering Committee) and Stevens Institute of Technology, Shrewsbury River Flood Warning System; Jacques Cousteau Reserve(Rutgers University) part of the County Mitigation Steering Committee.</p>	<p>x</p>
<p>15. A. Check here if your community has a stormwater management plan.                  County does have a NJPDES Stormwater Pollution Prevention Plan for County owned facilities/infrastructure</p>	<p>x</p>
<p>B. Check here if your community has a stormwater management ordinance.                  Not under County jurisdiction</p>	<p>na</p>

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	x
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	X
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	X
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	na
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	na
B. Enforce codes and standards beyond FEMA minimum requirements.	na
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X
County Planning Board CRS initiative to assist all NFIP communities enter the program with at least a rating of 9	
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	na
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	x
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation. Official civil service job descriptions cannot be modified, however, duties within the job description include planning related responsibilities	x
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	na
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	na
11. Add hazard vulnerability to subdivision and site plan review criteria.	na
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	x
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	x
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	X
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	na
16. Protect life and property in high hazard areas by limiting densities of new development.	na
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	na
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	na
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	x
20. Implement hazard mitigation activities through existing plans and policies.	
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)FEMA Mitigation workshops offered to all municipalities in April 2013. CRS course hosted by the County in July 2013	x



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

For this Plan Update, FEMA requires:

- a summary of each jurisdiction's past progress in plan integration over the last planning cycle; and
- a description of plan integration activities that each jurisdiction expects to undertake over the course of the next planning cycle.

This worksheet has been set up, therefore, into two components with each portion focusing on one of the bullets above.

- Demonstration of Progress over the Last Planning Cycle – In the first component of this worksheet, we have reiterated the targeted plan integration activities that were included in the last version of the plan (Section 9, beginning on Page 9-4) in a tabular form, and are asking each community to describe their respective accomplishments since the plan was adopted five years ago.
- Targeted Plan Integration Activities for the Next Planning Cycle – Similarly, in the second component of this worksheet, we have outlined a series of plan integration activities for the next five-year planning cycle. Please document to FEMA the manner in which your community will commit to integrate the hazard mitigation plan into your local government operations from this point forward.

Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring to.

Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** \_\_\_\_\_ **John T. Powers**

**Title:** \_\_\_\_\_ **Emergency Management Coordinator**

**Representing:** \_\_\_\_\_ **Aberdeen Township**

**Email and Phone:** \_\_\_\_\_ **john.powers@aberdeennj.org 732-583-4200 ext. 221**

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p>	
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below.</p>	
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury).</p>	<p>x</p>

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below. The community is in the process of adopting revised FIRMs.</p>	
<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p>	<p>X</p>
<p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements. One foot above BFE.</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p>	<p>X</p>
<p>F. Check here if your community has joined the CRS since 2009.</p>	<p>N/A</p>
<p>G. Check here if your community has dropped out of the CRS since 2009.</p>	
<p>5. A. Check here if your community has a local zoning ordinance.</p>	<p>x</p>
<p>B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below. Copies of the 2009 Hazard Mitigation Plan were provided to the Zoning Department.</p>	<p>X</p>
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.</p>	
<p>B. If so, describe. Reinforcing sand berms on Cliffwood Beach beachfront.</p>	
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.</p>	
<p>B. If so, describe.</p>	
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.</p>	
<p>B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).</p>	
<p>B. If so, describe.</p>	

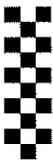
Community Name ABERDEEN

<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently). B. If so, describe.</p>		
<p>11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria. B. If so, describe. FIRMs. Planning is done in coordination with building code.</p>	X	
<p>12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards. B. If so, describe.</p>	N/A	
<p>13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe. The township applied for and received a NJDOT grant for part of the cost of the elevation project on Lakeshore Drive.</p>	X	
<p>14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe. The township has reached out to NJIT for assistance in educating residents regarding mitigation measures, such as elevation.</p>	X	
<p>15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.</p>	X	X

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	X
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan. B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	X
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating). B. Enforce codes and standards beyond FEMA minimum requirements. C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X X X
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	X
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8. Revise capital or operating budgets to include a line item for mitigation project funding.	X
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	X
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	N/A
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	X
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	X
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Plan Integration Worksheet*

For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

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Name: Robert Richter

Title: Chief of Police

Representing: Allenhurst Borough

Email and Phone: copn1301@yahoo.com 732-631-2266

Community Name: Allenhurst

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

Please check all activities that your municipality has undertaken over the last five years.

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan; hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p>	
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted BC (NJ edition). Please describe your coordination efforts in the space below. Our building Department is the State of New Jersey. Their satellite office is located in Loch Arbour. They enforce all current standards.</p>	<p>NA</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p>	<p>X</p>

Community Name: Allenhurst

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements. D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p>	<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS). F. Check here if your community has joined the CRS since 2009. G. Check here if your community has dropped out of the CRS since 2009.</p>	<p>5. A. Check here if your community has a local zoning ordinance. B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p>	<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities. B. If so, describe. <u>Rebuilding beach facilities included mitigation planning as did the Borough's Basic Plan Storm Annex</u></p>	<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation. B. If so, describe.</p>	<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding. B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable). B. If so, describe.</p>	<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and</p>
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Community Name: <u>Allenhurst</u>		cleaning debris from streams and ditches (i.e., more frequently): B. If so, describe.	
11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria B. If so, describe.		12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards. B. If so, describe.	
13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe.		14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.	
15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.			X X

Community Name Allenhurst

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	X
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	X
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	X
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	X
B. Enforce codes and standards beyond FEMA minimum requirements.	X
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	X
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	X
8. Revise capital or operating budgets to include a line item for mitigation project funding.	X
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	X
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	X

Community Name: Allenhurst

12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	X
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	X
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	X
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

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Feedback should be returned to URS Project Manager Anna Foley at by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

Name:       Daniel Panckeri

Title:               Deputy OEM

Representing:       Allentown\_Borough

Email and Phone: \_\_DPanckeri@comcast.net\_732-674-7180

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	<p>X</p>
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p>	
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	<p>X</p>
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	<p>X</p>
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below.</p>	
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury).</p>	<p>X</p>

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	
<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p>	
<p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p>	
<p>F. Check here if your community has joined the CRS since 2009.</p>	
<p>G. Check here if your community has dropped out of the CRS since 2009.</p>	
<p>5. A. Check here if your community has a local zoning ordinance.          B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p>	X
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.          B. If so, describe.</p>	
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.          B. If so, describe.</p>	
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.          B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).          B. If so, describe.</p>	
<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning.</p>	x

debris from streams and ditches (i.e., more frequently). xB. If so, describe. Before storms our DPW always inspects the dams for debris to avert possible flooding.	X
11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria. B. If so, describe.	
12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards. B. If so, describe.	
13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe.	
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.	
15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	X

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	x
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	x
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	X
B. Enforce codes and standards beyond FEMA minimum requirements.	
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	x
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	x
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	x
11. Add hazard vulnerability to subdivision and site plan review criteria.	
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	x
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	x
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	x
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	x



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

For this Plan Update, FEMA requires:

- a summary of each jurisdiction's past progress in plan integration over the last planning cycle; and
- a description of plan integration activities that each jurisdiction expects to undertake over the course of the next planning cycle.

This worksheet has been set up, therefore, into two components with each portion focusing on one of the bullets above.

- Demonstration of Progress over the Last Planning Cycle – In the first component of this worksheet, we have reiterated the targeted plan integration activities that were included in the last version of the plan (Section 9, beginning on Page 9-4) in a tabular form, and are asking each community to describe their respective accomplishments since the plan was adopted five years ago.
- Targeted Plan Integration Activities for the Next Planning Cycle – Similarly, in the second component of this worksheet, we have outlined a series of plan integration activities for the next five-year planning cycle. Please document to FEMA the manner in which your community will commit to integrate the hazard mitigation plan into your local government operations from this point forward.

Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring to.

Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

Name: \_\_\_\_\_ **kevin Keddy**

Title: \_\_\_\_\_ **OEM Coordinator**

Representing: \_\_\_\_\_ **Asbury Park**\_\_

Email and Phone: \_\_\_\_\_ **kevin.keddy@cityofasburypark.com 848-207-0534**

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p>	
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. Construction official is and has been enforcing at least the minimum standard established in the IBC</p>	<p>x</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury).</p>	<p>x</p>

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	
<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p>	
<p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p>	
<p>F. Check here if your community has joined the CRS since 2009.</p>	
<p>G. Check here if your community has dropped out of the CRS since 2009.</p>	
<p>5. A. Check here if your community has a local zoning ordinance.          B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p>	x
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.</p>	x
<p>B. If so, describe. Various departments are working more closely together discussing hazard mitigation concepts and ideas.</p>	
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.</p>	
<p>B. If so, describe.</p>	
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.</p>	
<p>B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).</p>	
<p>B. If so, describe.</p>	
<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning.</p>	x

debris from streams and ditches (i.e., more frequently). B. If so, describe.	
Yes, DPW has an aggressive program to keep all storm drains and lake flumes clear of debris.	
11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria. B. If so, describe. Extra consideration is paid to structure elevations in Floodplain Areas.	X
12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards. B. If so, describe.	
13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe. Applied for grants via State Mitigation Unit	X
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.	
15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	X X

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	x
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan. B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	x
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating). B. Enforce codes and standards beyond FEMA minimum requirements. C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	x
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	x
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	x
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	x
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	x
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	x
16. Protect life and property in high hazard areas by limiting densities of new development.	
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	x
20. Implement hazard mitigation activities through existing plans and policies.	
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

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Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring to.

Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** \_\_\_\_\_ **Adam Hubeny**

**Title:** \_\_\_\_\_ **Administrator / OEM Coordinator**

**Representing:** \_\_\_\_\_ **Borough of Atlantic Highlands**

**Email and Phone:** \_\_\_\_\_ **ahubeny@ahnj.com 732-291-1444 x3101**

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	<p>x</p>
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.  <i>Explained to PB and PB attorney the need to include these projects in the master plan review / update which is due in 2014</i>                  B. Check here if your municipality does not have a master, general, or comprehensive plan.                  C. Check here if your master, general or comprehensive was updated since 2008.                  D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.                  E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	<p>X</p>
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. (Met &amp; reviewed our plan with Construction Official who in turn spoke with each of his inspectors)</p>	<p>x</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p>	<p>x</p>

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below. <i>(Met &amp; discussed potential concerns within certain areas of the Borough. Met with several area residents who submitted LOMA forms to FEMA regarding elevations. Certain areas of the Borough received a lot of water due to the Many Mind Creek and some not at all. The ABFE's and Preliminary Maps were reviewed and we now require Base Elevation plus 12" – 1 foot.)</i></p>	
<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p> <p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements. (Base elevation plus 12" – 1 foot)</p>	x
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p> <p>F. Check here if your community has joined the CRS since 2009.</p> <p>G. Check here if your community has dropped out of the CRS since 2009.</p>	x x
<p>5. A. Check here if your community has a local zoning ordinance.</p> <p>B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below. <i>(Met with Zoning/Planning Board attorney and secretary to review Hazardous Mitigation Plan and its components)</i></p>	x x
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.</p> <p>B. If so, describe.</p>	
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.</p> <p>B. If so, describe. <i>(OEM Coordinator and Construction Official review/suggest concerns)</i></p>	x
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.</p> <p>B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	x
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).</p> <p>B. If so, describe.</p>	
<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and</p>	x

Community Name \_\_\_\_\_ Borough of Atlantic Highlands

cleaning debris from streams and ditches (i.e., more frequently). B. If so, describe. <i>(Stormwater management rules require frequent inspection and debris removal. This was reviewed with DPW Director and Street Superintendent)</i>	
11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria. B. If so, describe.	
12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards. B. If so, describe.	
13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe. <i>(NJ DEP and the USGS – United States Geological Survey) Review steep slopes on Bayside Dr</i>	x
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe. <i>(Right after Super Storm Sandy, Dr Thomas Herrington from Stevens Institute visited the Borough and reviewed the harbor area. A power point review was later submitted.)</i>	x
15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	x x

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	X
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	X
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	X
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	X
B. Enforce codes and standards beyond FEMA minimum requirements.	X
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	X
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	X
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	X
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	X
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	X
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	X
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	X
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

---

For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

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**Name: Kenneth Child**

**Title: Emergency Management Coordinator**

**Representing: Avon By The Sea**

**Email and Phone: [kenchild@optonline.net](mailto:kenchild@optonline.net) 732-904-6186**

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	<p>X</p>
<p>2. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below. Currently the Borough is planning to update the Master Plan and include Hazard Mitigation into this update. Meetings with the planner have been conducted and all parties have agreed that it will be included.</p> <p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p> <p>C. Check here if your master, general or comprehensive was updated since 2008.</p> <p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p> <p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	<p>X</p>
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. The Borough of Avon has hired a full time employee who oversees the building department. This employee is also the Floodplain Manager. OEM and the Building Department have daily ,meetings to discuss floodplain compliance and the use of current ordinances and State regulations including the IBC.</p>	<p>X</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury).</p>	<p>X</p>

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below. Currently the Borough is only enforcing the minimum requirements. The Borough OEM and Floodplain Manager continue to discuss opportunities to exceed the minimum requirements such as adopting a freeboard requirement for first floor elevations.</p> <p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p> <p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p> <p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p> <p>F. Check here if your community has joined the CRS since 2009.</p> <p>G. Check here if your community has dropped out of the CRS since 2009.</p> <p>5. A. Check here if your community has a local zoning ordinance.          B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below. This activity has not taken place yet. OEM plans to conduct a workshop in the near future.</p> <p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.          B. If so, describe.</p> <p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.          B. If so, describe.</p> <p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.          B. Check here if capital or operating budgets already included this when the plan was first adopted.</p> <p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).          B. If so, describe.</p>	<p>X</p> <p>X</p> <p>X</p> <p>X</p>
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**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	X
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan. B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	X
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating). B. Enforce codes and standards beyond FEMA minimum requirements. C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	X
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	X
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	X
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	X
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

For this Plan Update, FEMA requires:

- a summary of each jurisdiction's past progress in plan integration over the last planning cycle; and
- a description of plan integration activities that each jurisdiction expects to undertake over the course of the next planning cycle.

This worksheet has been set up, therefore, into two components with each portion focusing on one of the bullets above.

- Demonstration of Progress over the Last Planning Cycle – In the first component of this worksheet, we have reiterated the targeted plan integration activities that were included in the last version of the plan (Section 9, beginning on Page 9-4) in a tabular form, and are asking each community to describe their respective accomplishments since the plan was adopted five years ago.
- Targeted Plan Integration Activities for the Next Planning Cycle – Similarly, in the second component of this worksheet, we have outlined a series of plan integration activities for the next five-year planning cycle. Please document to FEMA the manner in which your community will commit to integrate the hazard mitigation plan into your local government operations from this point forward.

Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring to.

Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name: \_\_Fran Hines**

**Title: Deputy OEM Coordinator\_**

**Representing: \_\_Boro of Belmar**

**Email and Phone: \_\_fhines@boro.belmar.nj.us**

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	<p>Y</p>
<p>2. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.                  Belmar's Business Administrator, OEM officials and Municipal Planner works with the Planning Board to adopt the updated flood plain ordinances, redevelopment plans and ongoing hazard mitigation measures.                  B. Check here if your municipality does not have a master, general, or comprehensive plan.                  C. Check here if your master, general or comprehensive was updated since 2008.                  D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.                  E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	<p>Y</p>
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below.                  Regular and recurring meetings with the Building Department occur to ensure that all appropriate regulations are followed and coordinated.</p>	<p>Y</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury).</p>	<p>Y</p>

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p> <p>In the last year, over 6 meetings were held with Belmar's Floodplain Administrator to discuss the various NFIP guidelines. Public meetings were held to garner input from the community. This coordination is ongoing.</p> <p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p> <p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p>	<p>Y</p>
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p> <p>F. Check here if your community has joined the CRS since 2009.</p> <p>G. Check here if your community has dropped out of the CRS since 2009.</p>	<p>N Y</p>
<p>5. A. Check here if your community has a local zoning ordinance.</p> <p>B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p> <p>Belmar's Business Administrator, OEM officials and Floodplain Administrator works with the Zoning Board regarding ongoing hazard mitigation measures necessary to coordinate in development projects.</p>	<p>Y Y</p>
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.</p> <p>B. If so, describe.</p> <p>Belmar Council adopted by ordinance the new ABFE's well in advance of the State.</p>	<p>Y</p>
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation. N/A</p> <p>B. If so, describe.</p>	<p>N</p>
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.</p> <p>B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	<p>N</p>
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).</p> <p>B. If so, describe. Management of both Lake levels in the Borough are closely managed prior to storm events with</p>	<p>Y</p>

<p>pumps brought in as required to ensure flooding is mitigated (e.g. June 7<sup>th</sup> &amp; 11<sup>th</sup> 2013 Storms). Additional hazard mitigation designs were authorized in 2013 including the Engineered Dune System, Flooding mitigation at Lakes Como and Silver and Flooding mitigation at K Street.</p>	<p>Y</p>
<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently). B. If so, describe. The Borough owns and operates a Vac Truck and regularly cleans storm drains, catch basins etc. Repetitive flood areas are closely monitored.</p>	<p>N</p>
<p>11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria. B. If so, describe.</p>	<p>N</p>
<p>12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards. B. If so, describe.</p>	<p>Y</p>
<p>13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe. HMPG grant applications (6) have been filed. Ongoing conversations with NJDEP and the Governor's office regarding funding for hazard mitigation projects.</p>	<p>N</p>
<p>14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.</p>	<p>Y</p>
<p>15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.</p>	<p>Y</p>

Y

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

*Please check all activities that your municipality is committing to undertake over the next five years.*

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	Y
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan. B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	Y
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	Y
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating). B. Enforce codes and standards beyond FEMA minimum requirements. C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	Y
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	Y
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	Y
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	Y
8. Revise capital or operating budgets to include a line item for mitigation project funding.	Y
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	Y
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	Y
11. Add hazard vulnerability to subdivision and site plan review criteria.	Y
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	Y
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	Y
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	Y
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	Y
16. Protect life and property in high hazard areas by limiting densities of new development.	Y
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	Y
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	Y
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	Y
20. Implement hazard mitigation activities through existing plans and policies.	Y
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	Y



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Plan Integration Worksheet

For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

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**Name:**        **NORMAN GOLDFARB**

**Title:**            **FIRST DEPUTY COORDINATOR OFFICE OF EMERGENCY MANAGEMENT**

**Representing:**     **BOROUGH OF BRADLEY BEACH**

**Email and Phone:**        **norman.goldfarb1@gmail.com 732-620-3752**

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	✓
<p>2. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below. The Planning and Zoning Boards are being updated on Hazard Mitigation and urged to include these matters in the updated plan(s) under review for update. Areas to be taken in to account include flooding, ABFE's, drainage and wind damage.</p>	✓
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	✓
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	✓
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below. The Borough is in the process of updating it's Master Plan and these areas will be included. Areas to be taken into account include flooding, ABFE's, drainage and wind damage.</p>	✓
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below. Storm water infiltration study, flood mitigation, storm water and flooded plain management.</p>	✓
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. The building department and flood plain manager are coordinating efforts to be incorporated in any new applications for new buildings or renovations.</p>	✓
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p>	✓
<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below. Ongoing dialogue is occurring.</p>	✓

Community Name Bradley Beach, Borough Of

<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p>	
<p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p>	✓
<p>F. Check here if your community has joined the CRS since 2009.</p>	
<p>G. Check here if your community has dropped out of the CRS since 2009.</p>	
<p>5. A. Check here if your community has a local zoning ordinance.</p>	✓
<p>B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p>	
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.</p>	
<p>B. If so, describe.</p>	
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.</p>	
<p>B. If so, describe.</p>	
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.</p>	✓
<p>B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).</p>	
<p>B. If so, describe.</p>	
<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).</p>	✓
<p>B. If so, describe. Storm drains are cleaned and inspected four times per year.</p>	
<p>11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.</p>	
<p>B. If so, describe.</p>	
<p>12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where</p>	

Community Name Bradley Beach, Borough Of

<p>special treatment may be needed to protect them from specific natural hazards.          B. If so, describe.</p>	
<p>13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities.          B. If so, describe. Two Letters of Intent for hazard mitigation grants for Lakes and Elevations have been submitted under the hazard mitigation program.</p>	√
<p>14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities.          B. If so, describe.</p>	
<p>15. A. Check here if your community has a stormwater management plan.          B. Check here if your community has a stormwater management ordinance.</p>	√ √

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

*Please check all activities that your municipality is committing to undertake over the next five years.*

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	✓
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan. B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	✓
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	✓
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating). B. Enforce codes and standards beyond FEMA minimum requirements. C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	✓
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	✓
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	✓
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	✓
8. Revise capital or operating budgets to include a line item for mitigation project funding.	✓
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	✓
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	N/A
11. Add hazard vulnerability to subdivision and site plan review criteria.	✓
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	✓
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	✓
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	✓
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	✓
16. Protect life and property in high hazard areas by limiting densities of new development.	✓
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	✓
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	✓
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	✓
20. Implement hazard mitigation activities through existing plans and policies.	✓
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	✓



# Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

## Plan Integration Worksheet

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Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring too.

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**Name:** Michael Palmer

**Title:** Chief of Police \_\_\_\_\_

**Representing:** Borough of Brielle \_\_\_\_\_

Email and Phone: \_\_732-528-5050  
mwp141@verizon.net \_\_\_\_\_

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	<p>X</p>
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below. <b>Borough Engineer, Grant Consultant; and OEM Coordinator continue to meet to review hazard mitigation plan and activities.</b></p>	<p></p>
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	<p></p>
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	<p></p>
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	<p></p>
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	<p></p>
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. <b>Building Official has also contributed to the plan updates.</b></p>	<p>X</p>
<p>A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury).</p>	<p>X</p>

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below. <b>Brielle adopted the FEMA ABFE maps plus 1 foot for all construction.</b></p> <p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p> <p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p> <p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p> <p>F. Check here if your community has joined the CRS since 2009.</p> <p>G. Check here if your community has dropped out of the CRS since 2009.</p>	<p>X</p>
<p>4. A. Check here if your community has a local zoning ordinance.</p> <p>B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below. <b>The Engineer meets regularly with the zoning official to discuss zoning requirements; however, the Borough is 99% developed.</b></p>	<p>X</p>
<p>5. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.</p> <p>B. If so, describe.</p>	
<p>6. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.</p> <p>B. If so, describe.</p>	
<p>7. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.</p> <p>B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	
<p>8. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).</p> <p>B. If so, describe.</p>	

<p>9. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).                  B. If so, describe.</p>	
<p>10. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.                  B. If so, describe.</p>	
<p>11. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.                  B. If so, describe.</p>	
<p>12. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities.                  B. If so, describe. <b>Brielle has applied to participate in FEMA HMGP through the NJ Office of Emergency Management.</b></p>	<p>X</p>
<p>13. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities.                  B. If so, describe.</p>	
<p>14. A. Check here if your community has a stormwater management plan.                  B. Check here if your community has a stormwater management ordinance.</p>	<p>X X</p>

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

*Please check all activities that your municipality is committing to undertake over the next five years.*

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	X
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	X
B. Enforce codes and standards beyond FEMA minimum requirements.	
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Plan Integration Worksheet*

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For this Plan Update, FEMA requires:

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- a description of plan integration activities that each jurisdiction expects to undertake over the course of the next planning cycle.

This worksheet has been set up, therefore, into two components with each portion focusing on one of the bullets above.

- Demonstration of Progress over the Last Planning Cycle – In the first component of this worksheet, we have reiterated the targeted plan integration activities that were included in the last version of the plan (Section 9, beginning on Page 9-4) in a tabular form, and are asking each community to describe their respective accomplishments since the plan was adopted five years ago.
- Targeted Plan Integration Activities for the Next Planning Cycle – Similarly, in the second component of this worksheet, we have outlined a series of plan integration activities for the next five-year planning cycle. Please document to FEMA the manner in which your community will commit to integrate the hazard mitigation plan into your local government operations from this point forward.

Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring too.

Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

Name: Kevin Sauter  
 Title: OEM Coordinator  
 Representing: Colts Neck Township  
 Email and Phone: ksauter@coltsneckpolice.com

Community Name Colts Neck Township

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?	
2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.  All mitigation material was forwarded to planning department during original planning phase, we continue to review as needed.	X
B. Check here if your municipality does not have a master, general, or comprehensive plan.	
C. Check here if your master, general or comprehensive was updated since 2008.	
D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.	
E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.	
3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below.	
4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)	X
B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.	

Community Name Colts Neck Township

C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.	<input type="checkbox"/>
D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.	
E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).	<input type="checkbox"/>
F. Check here if your community has joined the CRS since 2009.	
G. Check here if your community has dropped out of the CRS since 2009.	
5. A. Check here if your community has a local zoning ordinance.	<input checked="" type="checkbox"/>
B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.	
6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.	
B. If so, describe.	
7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.	
B. If so, describe.	
8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.	
B. Check here if capital or operating budgets already included this when the plan was first adopted.	
9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).	
B. If so, describe.	
10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).	
B. If so, describe.	
11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.	<input checked="" type="checkbox"/>
B. If so, describe. Part of review process	
12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.	
B. If so, describe.	

# Colts Neck Township

Community Name \_\_\_\_\_

13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe.	
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.	
15. A. Check here if your community has a stormwater management plan.	X
B. Check here if your community has a stormwater management ordinance.	X

Community Name Colts Neck Township

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

*Please check all activities that your municipality is committing to undertake over the next five years.*

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	X
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	X
B. Enforce codes and standards beyond FEMA minimum requirements.	
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	X
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

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Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** \_\_\_\_\_ *Peter R. Avakian* \_\_\_\_\_

**Title:** \_\_\_\_\_ *Floodplain Administrator* \_\_\_\_\_

**Representing:** \_\_\_\_\_ *Borough of Deal* \_\_\_\_\_

**Email and Phone:** \_\_\_\_\_ *Ph: 732-922-9229 Isavakian@aol.com* \_\_\_\_\_

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

Please check all activities that your municipality has undertaken over the last five years.

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	
<p>2. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p> <p><b>The Administrator/ Engineer office attends FEMA and local seminars to maintain current and up to date knowledge of hazard mitigation issues.</b></p> <p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p> <p>C. Check here if your master, general or comprehensive was updated since 2008.</p> <p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p> <p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	<p>X</p> <p>X</p>
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below.</p> <p><b>Building inspectors enforce current minimum standards and are current with all hazard mitigation standards.</b></p>	<p>X</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p>	<p>X</p>

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	
<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p>	
<p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p>	
<p>F. Check here if your community has joined the CRS since 2009.</p>	
<p>G. Check here if your community has dropped out of the CRS since 2009.</p>	
<p>5. A. Check here if your community has a local zoning ordinance.</p>	<b>X</b>
<p>B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p>	
<p><b>All development reviews submitted to the Borough must comply with NJDEP Flood Hazard Regulations, NJDP BMP standards, and the Flood Damage Prevention Ordinance.</b></p>	
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.</p>	<b>X</b>
<p>B. If so, describe.</p>	
<p><b>In 2009, the Township adopted a Flood Damage Prevention Ordinance addressing residential and non-residential construction in accordance with the State model ordinance.</b></p>	
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.</p>	<b>X</b>
<p>B. If so, describe.</p>	

<p><b>The Borough Engineer is appointed as the Floodplain Administrator.</b></p>	
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.                  B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).                  B. If so, describe.</p>	<p><b>X</b></p>
<p><b>The Borough Engineer is appointed as the Floodplain Administrator.</b></p>	
<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).                  B. If so, describe.</p>	<p><b>X</b></p>
<p><b>The Borough has adopted a Municipal Stormwater Management Plan that ensures regular maintenance of storm facilities and outfall piping.</b></p>	
<p>11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.                  B. If so, describe.</p>	<p><b>X</b></p>
<p><b>All development reviews submitted to the Borough must comply with NJDEP Flood Hazard Regulations, NJDP BMP standards, and the Flood Damage Prevention Ordinance.</b></p>	
<p>12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.                  B. If so, describe.</p>	
<p>13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities.</p>	<p><b>X</b></p>

<p>B. If so, describe.</p> <p><b>The Borough of Deal has applied for grant money under the Hazard Mitigation Grant Program for damage occurred under Super Storm Sandy.</b></p>	
<p>14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities.</p> <p>B. If so, describe.</p>	
<p>15. A. Check here if your community has a stormwater management plan.</p>	<p><b>X</b></p>
<p>B. Check here if your community has a stormwater management ordinance.</p>	<p><b>X</b></p>

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

*Please check all activities that your municipality is committing to undertake over the next five years.*

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	X
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	X
B. Enforce codes and standards beyond FEMA minimum requirements	
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	X
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	X
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	X
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	X
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	X
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

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**Name:** Timothy P. White

**Title:** Township Engineer

**Representing:** Township of Freehold

**Email and Phone:** [twhite@twp.freehold.nj.us](mailto:twhite@twp.freehold.nj.us) (732) 294-2070

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p>	
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	√
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below.</p>	
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p>	√
<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	

Community Name: Township of Freehold

<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p>	
<p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p>	
<p>F. Check here if your community has joined the CRS since 2009.</p>	
<p>G. Check here if your community has dropped out of the CRS since 2009.</p>	
<p>5. A. Check here if your community has a local zoning ordinance.</p>	√
<p>B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p>	
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.</p>	
<p>B. If so, describe.</p>	
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.</p>	
<p>B. If so, describe.</p>	
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.</p>	
<p>B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).</p>	
<p>B. If so, describe.</p>	
<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).</p>	√
<p>B. If so, describe.</p>	
<p>The Township of Freehold has been more active in clearing jams near culverts and roads in the wake of recent storms.</p>	
<p>11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.</p>	
<p>B. If so, describe.</p>	
<p>12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.</p>	
<p>B. If so, describe.</p>	

Community Name: Township of Freehold

13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe.	
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.	
15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	✓ ✓

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1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	✓
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	✓
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	✓
B. Enforce codes and standards beyond FEMA minimum requirements.	✓
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	✓
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
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12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	✓
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	✓
16. Protect life and property in high hazard areas by limiting densities of new development.	✓
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	✓
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	✓
20. Implement hazard mitigation activities through existing plans and policies.	✓
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update  
Plan Integration Worksheet**

For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

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Name: William A. Melgo III

Title: OEM COORDINATOR

Representing:  Borough of Fairview

Email and Phone: Wmelgo45@fairview.net

Community Name

KONO OF ABBOTTSTOWN

**DEMONSTRATION OF FAST PROGRESS OVER THE LAST PLANNING CYCLE**

Please check all activities that your municipality has undertaken over the last five years.

<p>1. Check here if you (or your predecessor or the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p> <p>2. A. Check here if you (or your predecessor or the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage them on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p> <p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p> <p>C. Check here if your master, general or comprehensive was updated since 2008.</p> <p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p> <p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	<input checked="" type="checkbox"/>
<p>3. Check here if you (or your predecessor or the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NU edition). Please describe your coordination efforts in the space below.</p>	<input checked="" type="checkbox"/>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program. (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p> <p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor or the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	<input checked="" type="checkbox"/>

Community Name Borough of Fairview

<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements. D. Briefly explain here what's currently being enforced beyond FEMA minimum requirements.</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS). F. Check here if your community has joined the CRS since 2009. G. Check here if your community has dropped out of the CRS since 2009.</p>	
<p>5. A. Check here if your community has a local zoning ordinance. B. Check here if you (or your predecessor or the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy-low density zoning in hazard areas when practicable. Please describe your coordination efforts in the space below.</p>	
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities. B. If so, describe.</p>	
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation. B. If so, describe.</p>	
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding. B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities if your jurisdiction does not have this authority, say "NA" for Not Applicable). B. If so, describe.</p>	
<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e. more frequently). B. If so, describe.</p>	
<p>11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria. B. If so, describe.</p>	
<p>12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards. B. If so, describe.</p>	

Community Name Sumner of Annapolis

13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe.	
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.	
15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	

Community Name  Borough of Exton

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan. B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating). B. Enforce codes and standards beyond FEMA minimum requirements. C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	<input checked="" type="checkbox"/>
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	
10. Require the Department of Public Works to inspect and clean drains from streams and ditches more frequently.	
11. Add hazard vulnerability to subdivision and site plan review criteria.	
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	
16. Protect life and property in high hazard areas by limiting densities of new development.	
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	<input checked="" type="checkbox"/>
20. Implement hazard mitigation activities through existing plans and policies.	<input checked="" type="checkbox"/>
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Plan Integration Worksheet*

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Name: Thomas J Herits PE PP PLS

Title: Borough Engineer

Representing: Englishtown Borough

Email and Phone: therits@maserconsulting.com  
732-261-7934 (cell)

Community Name Englishtown Borough

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

Please check all activities that your municipality has undertaken over the last five years.

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p> <p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p> <p>C. Check here if your master, general or comprehensive was updated since 2008.</p> <p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p> <p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below.</p>	X
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p> <p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	X

**3. The Borough utilizes the NJ DCA for its Construction Department.**

# Englishtown Borough

Community Name

C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.	
D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.	
E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).	
F. Check here if your community has joined the CRS since 2009.	
G. Check here if your community has dropped out of the CRS since 2009.	
5. A. Check here if your community has a local zoning ordinance.	X
B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.	
6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.	
B. If so, describe.	
7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.	
B. If so, describe.	
8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.	
B. Check here if capital or operating budgets already included this when the plan was first adopted.	
9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).	
B. If so, describe.	
10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).	X
B. If so, describe.	
11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.	
B. If so, describe.	
12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.	
B. If so, describe.	

10B. The DPW coordinates with the County Bridge Department and Mosquito Commission for cleaning of streams and ditches.

# Englishtown Borough

Community Name \_\_\_\_\_

13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe.	
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.	
15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	X X

Community Name Englishtown Borough

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	X
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	X
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	X
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	X
B. Enforce codes and standards beyond FEMA minimum requirements.	
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	X
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	X
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

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**Name:** \_\_\_LT. JOSEPH MCGOVERN

**Title:** \_\_\_OEM/POLICE

**Representing:** \_\_\_BOROUGH OF FAIR HAVEN

**Email and Phone:** \_\_\_JMCGOVERN@FHBORO.NET 732-747-0241 X324

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*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	<p>X</p>
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p>	
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	<p>X</p>
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	<p>x</p>
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. <b>BOROUGH ENGINEER, REVIEWS ALL PERMITS AND VISITS LOCATION TO MAKE SURE IT COMPLIES WITH STANDARDS ESTABLISHED BEFORE BUILDING PLANS ARE APPROVED.</b></p>	<p>X</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury).</p>	<p>x</p>

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	
<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p>	
<p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p>	<p>x</p>
<p>F. Check here if your community has joined the CRS since 2009.</p>	<p>x</p>
<p>G. Check here if your community has dropped out of the CRS since 2009.</p>	
<p>5. A. Check here if your community has a local zoning ordinance.</p>	<p>X</p>
<p>B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p>	
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.</p>	
<p>B. If so, describe.</p>	
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.</p>	
<p>B. If so, describe.</p>	
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.</p>	<p>x</p>
<p>B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).</p>	<p>NA</p>
<p>B. If so, describe.</p>	
<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).</p>	<p>X</p>

B. If so, describe. The borough has contracted a company to maintain storm sewers in the entire town	
11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.	x
B. If so, describe. All building permits are reviewed	x
12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.	
B. If so, describe.	
13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities.	
B. If so, describe.	
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities.	
B. If so, describe.	
15. A. Check here if your community has a stormwater management plan.	X
B. Check here if your community has a stormwater management ordinance.	X

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1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	X
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan. B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	X
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating). B. Enforce codes and standards beyond FEMA minimum requirements. C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X x x
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	X
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	X
8. Revise capital or operating budgets to include a line item for mitigation project funding.	X
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	X
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	X
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	X
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	X
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	X
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	X
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

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Name: \_\_\_\_\_ **Helene Schlegel**

Title: \_\_\_ **OEM Coordinator**

Representing: \_\_\_\_\_ **Farmingdale**

Email and Phone: \_\_\_ **hschlegel@twp.howell.nj.us 732-938-4500 ext. 2102** \_\_\_\_\_

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p>	
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. Latest versions of the IBC are enforced and adopted by Resolution.</p>	<p>X</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury).</p>	<p>X</p>

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	
<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p>	
<p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p>	
<p>F. Check here if your community has joined the CRS since 2009.</p>	
<p>G. Check here if your community has dropped out of the CRS since 2009.</p>	
<p>5. A. Check here if your community has a local zoning ordinance.</p>	X
<p>B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p>	
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.</p>	
<p>B. If so, describe.</p>	
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.</p>	
<p>B. If so, describe.</p>	
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.</p>	
<p>B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).</p>	
<p>B. If so, describe.</p>	
<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning.</p>	

Community Name \_\_\_\_\_ Farmingdale \_\_\_\_\_

debris from streams and ditches (i.e., more frequently). B. If so, describe.	
11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria. B. If so, describe.	
12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards. B. If so, describe.	
13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe. Grant opportunities	X
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.	
15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	X

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

*Please check all activities that your municipality is committing to undertake over the next five years.*

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	x
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan. B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan. 3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating). B. Enforce codes and standards beyond FEMA minimum requirements. C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	x
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	x
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	x
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	x
11. Add hazard vulnerability to subdivision and site plan review criteria.	x
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	x
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	x
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	x
16. Protect life and property in high hazard areas by limiting densities of new development.	x
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	x
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	x
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	x
20. Implement hazard mitigation activities through existing plans and policies.	
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	x



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### *Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

For this Plan Update, FEMA requires:

- a summary of each jurisdiction's past progress in plan integration over the last planning cycle; and
- a description of plan integration activities that each jurisdiction expects to undertake over the course of the next planning cycle.

This worksheet has been set up, therefore, into two components with each portion focusing on one of the bullets above.

- Demonstration of Progress over the Last Planning Cycle – In the first component of this worksheet, we have reiterated the targeted plan integration activities that were included in the last version of the plan (Section 9, beginning on Page 9-4) in a tabular form, and are asking each community to describe their respective accomplishments since the plan was adopted five years ago.
- Targeted Plan Integration Activities for the Next Planning Cycle – Similarly, in the second component of this worksheet, we have outlined a series of plan integration activities for the next five-year planning cycle. Please document to FEMA the manner in which your community will commit to integrate the hazard mitigation plan into your local government operations from this point forward.

Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring to.

Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** Henry A. Stryker III

**Title:** Freehold Borough OEM Coordinator

**Representing:** Freehold Borough

**Email and Phone:** [hstryker@freeholdboro.org](mailto:hstryker@freeholdboro.org) 732-462-4903

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p>	
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	X
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. As the OEM Coordinator I am also the Construction Official and Building Sub Code Official</p>	X
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p>	
<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below. Freehold Borough has presently applied to participate in the NFIP</p>	

<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p>	
<p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p>	
<p>F. Check here if your community has joined the CRS since 2009.</p>	
<p>G. Check here if your community has dropped out of the CRS since 2009.</p>	
<p>5. A. Check here if your community has a local zoning ordinance.</p>	X
<p>B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p>	
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.</p>	X
<p>B. If so, describe. Borough of Freehold has passed a Flood Damage Prevention Ordinance to participate in the National Flood Insurance program</p>	
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.</p>	
<p>B. If so, describe.</p>	
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.</p>	
<p>B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).</p>	
<p>B. If so, describe.</p>	
<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).</p>	
<p>B. If so, describe.</p>	
<p>11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.</p>	
<p>B. If so, describe.</p>	
<p>12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.</p>	
<p>B. If so, describe.</p>	

Community Name Freehold Borough

13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe.	
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.	
15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	X X

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	X
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	X
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	X
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	X
B. Enforce codes and standards beyond FEMA minimum requirements.	X
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	X
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	X
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	X
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	X
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	X
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	X
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

For this Plan Update, FEMA requires:

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Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring to.

Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name** Thomas Horner

**Title:** Hazlet OEM Coordinator

**Representing:** Hazlet Township

**Email and Phone:** [OEM@hazletwp.org](mailto:OEM@hazletwp.org) – 732-264-1700

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	<p>X</p>
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p>	
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	<p>X</p>
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below.</p>	
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury).</p>	<p>X</p>

Community Name -Hazlet Township\_\_\_\_\_

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	
<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p>	
<p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p>	
<p>F. Check here if your community has joined the CRS since 2009.</p>	
<p>G. Check here if your community has dropped out of the CRS since 2009.</p>	
<p>5. A. Check here if your community has a local zoning ordinance.          B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p>	<p>X</p>
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.          B. If so, describe.</p>	
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.          B. If so, describe.</p>	
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.          B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).          B. If so, describe.</p>	
<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning.</p>	<p>X</p>

Community Name -Hazlet Township\_\_\_\_\_

debris from streams and ditches (i.e., more frequently). B. If so, describe. The department has focused on more frequent cleaning of debris from streams within the township. Assisting other communities upstream with keeping the streams clear.	
11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria. B. If so, describe.	
12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards. B. If so, describe.	
13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe.	
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.	
15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	X

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

*Please check all activities that your municipality is committing to undertake over the next five years.*

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	X
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan. B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	X
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating). B. Enforce codes and standards beyond FEMA minimum requirements. C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8. Revise capital or operating budgets to include a line item for mitigation project funding.	X
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

---

For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

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Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** Dale R. Leubner

**Title:** Borough Floodplain Administrator and Zoning Official

**Representing:** Borough of Highlands

**Email and Phone:** dleubner@tandmassociates.com 732-671-6400

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	
<p>2. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below. The master plan and amendments continue to refer to the Borough's Floodplain Management Regulations. I have had numerous discussions with the Borough Planner and Planning Board regarding the Hazard Mitigation Plan and the importance of same.</p>	X
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008. Re-examined in 2009</p>	X
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below. The Borough's Floodplain Management Regulations remained in the updated document and included any updates to the regulations since the last Master Plan was adopted. The regulations are included in the Land Use Plan section of the Master Plan.</p>	X
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. I stay in close communication with the Construction Official. He does not issue permits unless I approve an application under floodplain review first – if the application requires floodplain review.</p>	X
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p>	X

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below. The Borough enforces minimum FEMA/NJDEP requirements, whichever are more stringent. We allow applicants to mitigate beyond the minimum requirements if they choose to.</p>	X
<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p>	X
<p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements. NJDEP requirements require one foot of freeboard where FEMA may not. As such the Borough is requiring the additional one foot of freeboard to the finished floor throughout the floodplain. In the V Zone it may be higher depending on the substructure beneath the floor in a particular residence.</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p>	
<p>F. Check here if your community has joined the CRS since 2009. The Borough is currently in the process and is under consideration.</p>	X
<p>G. Check here if your community has dropped out of the CRS since 2009.</p>	
<p>5. A. Check here if your community has a local zoning ordinance.</p>	X
<p>B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p>	
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.</p>	
<p>B. If so, describe.</p>	
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.</p>	
<p>B. If so, describe.</p>	
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.</p>	
<p>B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).</p>	

Community Name\_\_Borough of Highlands\_\_\_\_\_

B. If so, describe.	
10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently). B. If so, describe. More frequent checks are being performed and cleaning as appropriate.	X
11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria. B. If so, describe. Applications must be reviewed and approved by the Floodplain Administrator where appropriate.	X
12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards. N/A B. If so, describe.	
13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe. Funding assistance from the NJDEP has been requested for mitigation projects.	X
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.	
15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	X X

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	X
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	X
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	X
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	X
B. Enforce codes and standards beyond FEMA minimum requirements.	X
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	X
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	X
8. Revise capital or operating budgets to include a line item for mitigation project funding.	X
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	X
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	X
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards. N/A	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	X
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	X
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	X
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

---

For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

For this Plan Update, FEMA requires:

- a summary of each jurisdiction's past progress in plan integration over the last planning cycle; and
- a description of plan integration activities that each jurisdiction expects to undertake over the course of the next planning cycle.

This worksheet has been set up, therefore, into two components with each portion focusing on one of the bullets above.

- Demonstration of Progress over the Last Planning Cycle – In the first component of this worksheet, we have reiterated the targeted plan integration activities that were included in the last version of the plan (Section 9, beginning on Page 9-4) in a tabular form, and are asking each community to describe their respective accomplishments since the plan was adopted five years ago.
- Targeted Plan Integration Activities for the Next Planning Cycle – Similarly, in the second component of this worksheet, we have outlined a series of plan integration activities for the next five-year planning cycle. Please document to FEMA the manner in which your community will commit to integrate the hazard mitigation plan into your local government operations from this point forward.

Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring to.

Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

Name: Donna Vieiro

Title: Twp Administrator

Representing: Holmdel Township

Email and Phone: [dvieiro@holmdeltownship-nj.com](mailto:dvieiro@holmdeltownship-nj.com) 732 946-2820

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	<p>X</p>
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below Topic is discussed at Department Head meetings on a regular basis.</p>	
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	<p>X</p>
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. Latest versions of the IBC are enforced and adopted by Resolution.</p>	<p>X</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury).</p>	<p>X</p>

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	
<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p>	
<p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p>	
<p>F. Check here if your community has joined the CRS since 2009.</p>	
<p>G. Check here if your community has dropped out of the CRS since 2009.</p>	
<p>5. A. Check here if your community has a local zoning ordinance.          B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p>	<p>X</p>
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.          B. If so, describe.</p>	
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.          B. If so, describe.</p>	
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.          B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).          B. If so, describe.</p>	
<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).          B. If so, describe</p>	<p>X</p>

<p>The DPW more frequently inspects streams and waterways, where feasible, and removes built up sediment, felled trees and limbs and other debris where permitted.</p>	<p>11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.                  B. If so, describe. Township Ordinance refers to "Construction in Flood Hazard Areas"</p> <p><b>24-5 PROVISIONS FOR FLOOD HAZARD REDUCTION.</b>                  24-5.1 General Standards.                  In all areas of special flood hazards the following standards are required:</p> <p>a. <i>Anchoring.</i></p> <ol style="list-style-type: none"> <li>1. All new construction and substantial improvements shall be anchored to prevent flotation, collapse, or lateral movement of the structure.</li> <li>2. All manufactured homes shall be anchored to resist flotation, collapse or lateral movement. Methods of anchoring may include, but are not to be limited to, use of over-the-top or frame ties to ground anchors. This requirement is in addition to applicable State and local anchoring requirements for resisting wind forces.</li> </ol> <p>b. <i>Construction Materials and Methods.</i></p> <ol style="list-style-type: none"> <li>1. All new construction and substantial improvements shall be constructed with materials and utility equipment resistant to flood damage.</li> <li>2. All new construction and substantial improvements shall be constructed using methods and practices that minimize flood damage.</li> </ol> <p>c. <i>Utilities.</i></p> <ol style="list-style-type: none"> <li>1. All new and replacement water supply systems shall be designed to minimize or eliminate infiltration of floodwaters into the system;</li> <li>2. New and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of floodwaters into the systems and discharge from the systems into flood waters;</li> <li>3. <b>On-site</b> waste disposal systems shall be located to avoid impairment to them or contamination from them during flooding; and</li> <li>4. Electrical, heating, ventilation, plumbing and air-conditioning equipment and other service facilities shall be designed and/or located so as to prevent water from entering or accumulating within the components during conditions of flooding.</li> </ol> <p>d. <i>Subdivision Proposals.</i></p> <ol style="list-style-type: none"> <li>1. All subdivision proposals shall be consistent with the need to minimize flood damage;</li> <li>2. All subdivision proposals shall have public utilities and facilities such as sewer, gas, electrical, and water systems located and constructed to minimize flood damage;</li> <li>3. All subdivision proposals shall have adequate drainage provided to reduce exposure to flood damage; and,</li> <li>4. Base flood elevation data shall be provided for subdivision proposals and other proposed development which contain at least fifty (50) lots or five (5) acres (whichever is less).</li> </ol> <p>e. <i>Enclosure Openings.</i> All new construction and substantial improvements having fully enclosed areas below the lowest floor that are usable solely for parking of vehicles, building access or storage in an area other than a basement and which are subject to flooding shall be designed to automatically equalize hydrostatic flood forces on exterior walls by allowing for the entry and exit of floodwaters. Designs for meeting this requirement must either be certified by a registered professional engineer or architect or must meet or exceed the following minimum criteria: A minimum of two (2) openings having a total net area of not less than one (1) square inch for every square foot of enclosed area subject to flooding shall be provided. The bottom of all openings shall be no higher than one (1) foot above grade. Openings may be equipped with screens, louvers, or other covering or devices provided that they permit the automatic entry and exit of floodwaters.</p> <p>(Ord. No. 2009-14 § 1)</p>
	X

**24-5.2 Specific Standards.**

In all areas of special flood hazards where base flood elevation data have been provided as set forth in subsection 24-3.2, Basis for Establishing the Areas of Special Flood Hazard or in subsection 24-4.3b, Use of Other Base Flood Data, the following standards are required:

a. *Residential Construction.*

1. New construction and substantial improvement of any residential structure shall have the lowest floor, including basement together with the attendant utilities and sanitary facilities, elevated to or above base flood elevation;
2. Within any AO zone on the municipality's FIRM that all new construction and substantial improvement of any residential structure shall have the lowest floor, including basement, elevated above the highest adjacent grade at least as high as the depth number specified in feet (at least two (2) feet if no depth number is specified). And, require adequate drainage paths around structures on slopes to guide floodwaters around and away from proposed structures.

b. *Nonresidential Construction.*

1. New construction and substantial improvement of any commercial, industrial or other nonresidential structure shall either have the lowest floor, including basement, elevated to the level of the base flood elevation; and
  2. Within any AO zone on the municipality's DFIRM that all new construction and substantial improvement of any commercial, industrial or other nonresidential structure shall have the lowest floor, including basement, elevated above the highest adjacent grade at least as high as the depth number specified in feet (at least two (2) feet if no depth number is specified). And, require adequate drainage paths around structures on slopes to guide floodwaters around and away from proposed structures;
  3. Be floodproofed so that below the base flood level the structure is watertight with walls substantially impermeable to the passage of water;
  4. Have structural components capable of resisting hydrostatic and hydrodynamic loads and effects of buoyancy; and,
  5. Be certified by a registered professional engineer or architect that the design and methods of construction are in accordance with accepted standards of practice for meeting the applicable provisions of this subsection. Such certification shall be provided to the official as set forth in subsection 24-4.3c,2(b).
- c. *Manufactured Homes.*
1. Manufactured homes shall be anchored in accordance with subsection 24-5.1a,2.
  2. All manufactured homes to be placed or substantially improved within an area of special flood hazard shall be elevated on a permanent foundation such that the top of the lowest floor is at or above the base flood elevation.

(Ord. No. 2009-14 § 1)

**24-5.3 Floodways.**

Located within areas of special flood hazard established in subsection 24-3.2 are areas designated as floodways. Since the floodway is an extremely hazardous area due to the velocity of floodwaters, which carry debris, potential projectiles, and erosion potential, the following provisions apply:

- a. Prohibit encroachments, including fill, new construction, substantial improvements, and other development unless a technical evaluation demonstrates that encroachment shall not result in any increase in flood levels during the occurrence of the base flood discharge.
- b. If subsection 24-5.3a. is satisfied, all new construction and substantial improvements must comply with Section 24-5, Provisions for Flood Hazard Reduction.
- c. In all areas of special flood hazard in which base flood elevation data has been provided and no floodway has been designated, the cumulative effect of any proposed development, when combined with all other existing and anticipated development, shall not increase the water surface elevation of the base flood more than two-tenths (0.2) of a foot at any point. (Ord. No. 2009-14 § 1)

Community Name \_\_\_\_\_ Holmdel \_\_\_\_\_

<p>12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards. B. If so, describe.</p>	
<p>13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe.</p>	
<p>14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.</p>	
<p>15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.</p>	<p>X X</p>

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	X
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	X
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	X
B. Enforce codes and standards beyond FEMA minimum requirements	
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	X
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	X
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	X
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	X
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	X
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	X
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	X
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

---

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**Name:** HeleneSchlegel

**Title:** TownshipManager /OEM Coordinator

**Representing:** Howell OEM

**Email and Phone:** hschlegel@twp.howell.nj.us 732-614-7013

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<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	
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<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. Latest versions of the IBC are enforced and adopted by Ordinance</p>	<p>X</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)                  B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	<p>X</p>

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<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.</p>	X
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<p>11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.</p>	
<p>B. If so, describe.</p>	
<p>12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where</p>	

Community Name \_\_\_\_\_ Howell \_\_\_\_\_

<p>special treatment may be needed to protect them from specific natural hazards.                  B. If so, describe.</p>	
<p>13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities.                  B. If so, describe. NJOEM &amp; FEMA for property acquisition</p>	X
<p>14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities.                  B. If so, describe.</p>	
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5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	X
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
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13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	X
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	X
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X

## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### Plan Integration Worksheet

For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

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- **Targeted Plan Integration Activities for the Next Planning Cycle** – Similarly, in the second component of this worksheet, we have outlined a series of plan integration activities for the next five-year planning cycle. Please document to FEMA the manner in which your community will commit to integrate the hazard mitigation plan into your local government operations from this point forward.

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Name: Peter R. Avakian

Title: Floodplain Administrator

Representing: Borough of Interlaken

Email and Phone: Ph. 732-922-9229 Isavakian@aol.com

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

**Please check all activities that your municipality has undertaken over the last five years.**

1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?

√ 2.

A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.

***The Borough does not have a Planning Department. Our master plan updates are led by the Engineer and Floodplain Administrator with support from the Planning Board and Council. Our CPG member has no other entity to directly coordinate with because he also fills those roles of Floodplain Administrator and Borough Engineer. However, he did share information about the mitigation plan with the planning board, council and clerk.***

B. Check here if your municipality does not have a master, general, or comprehensive plan.

C. Check here if your master, general or comprehensive was updated since 2008.

D. If you checked box 2C, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.

***The Borough has adopted a Flood Damage Prevention Ordinance addressing residential and non-residential construction in accordance with the model State Ordinance.***

E. If you checked box 2C, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.

***Flood Damage Prevention Ordinance***

√ 3.

3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below.

***Building inspectors enforce current minimum standards and are current with all hazard mitigation standards.***

√ 4.

A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)

B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.

C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.

D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.

E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).

F. Check here if your community has joined the CRS since 2009.

G. Check here if your community has dropped out of the CRS since 2009.

√ 5.

A. Check here if your community has a local zoning ordinance.

B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.

**N/A – fully built-out.**

√ 6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.

B. If so, describe.

**In 2009 The Borough adopted a Flood Damage Prevention Ordinance addressing residential and non-residential construction in accordance with the State Model Ordinance.**

√ 7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.

B. If so, describe.

**The Borough Engineer is appointed as the Floodplain Administrator.**

8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.

B. Check here if capital or operating budgets already included this when the plan was first adopted.

9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).

B. If so, describe.

√ 10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).

B. If so, describe.

**The borough has adopted a Municipal Stormwater Management Plan that ensures regular maintenance of storm facilities and outfall piping.**

√ 11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.

B. If so, describe.

**All development reviews submitted to the Borough must comply with NJDEP Flood Hazard Regulations, NJDP BMP standards, and the Flood Damage Prevention Ordinance.**

12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.

B. If so, describe.

√ 13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities.

B. If so, describe.

**The Borough of Interlaken has applied for grant money under the Hazard Mitigation Grant Program for damage occurred under Super Storm Sandy.**

14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities.

B. If so, describe.

√ 15. A. Check here if your community has a stormwater management plan.

√ B. Check here if your community has a stormwater management ordinance.

## TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.

2.

- ✓ A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.
- B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.

✓ 3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).

4.

- ✓ A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).
- B. Enforce codes and standards beyond FEMA minimum requirements.
- C. Join (or continue to maintain participation in) the NFIP's Community Rating System.

✓ 5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.

✓ 6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.

✓ 7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.

✓ 8. Revise capital or operating budgets to include a line item for mitigation project funding.

✓ 9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.

✓ 10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.

✓ 11. Add hazard vulnerability to subdivision and site plan review criteria.

12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.

✓ 13. Reach out to state agencies for assistance with natural hazard mitigation activities.

✓ 14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.

✓ 15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.

✓ 16. Protect life and property in high hazard areas by limiting densities of new development.

- ✓ 17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.
- ✓ 18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.
- ✓ 19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.
- ✓ 20. Implement hazard mitigation activities through existing plans and policies.
- ✓ 21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

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Name: \_\_\_\_\_ **Ginger Rogan**

Title: \_\_\_\_\_ **Deputy OEM**

Representing: \_\_\_\_\_ **Keansburg Borough**

Email and Phone: \_\_\_\_\_ **dispgin1@aol.com** \_\_\_\_\_ **(732)787-0215x203**

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	<p>x</p>
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below. Addressed this issue with the planning department all in agreement that natural hazards should be addressed on the updated plan.</p>	<p>x</p>
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	<p>x</p>
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below. Elevations levels have changed</p>	<p>x</p>
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. Our building department and I work closely together to adopt and enforce</p>	<p>x</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury).</p>	<p>x</p>
<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below. Post Sandy elevations</p>	<p>x</p>

<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p>	
<p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p>	
<p>F. Check here if your community has joined the CRS since 2009.</p>	
<p>G. Check here if your community has dropped out of the CRS since 2009.</p>	
<p>5. A. Check here if your community has a local zoning ordinance.          B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p>	x
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.          B. If so, describe.</p>	
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.          B. If so, describe. DPW are actively clearing out storm drains</p>	x
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.          B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).          B. If so, describe.</p>	
<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).          B. If so, describe. Are DPW workers are more frequently removing debris</p>	x
<p>11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.          B. If so, describe.</p>	
<p>12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.</p>	x

Community Name \_\_\_\_\_ Kearsburg \_\_\_\_\_

<p>B. If so, describe. Trailer was obtained to store historic artifacts to protect from flooding.</p>	
<p>13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities.</p>	<p style="text-align: center;">x</p>
<p>B. If so, describe. For additional funding</p>	
<p>14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities.</p>	
<p>B. If so, describe.</p>	
<p>15. A. Check here if your community has a stormwater management plan.</p>	
<p>B. Check here if your community has a stormwater management ordinance.</p>	<p style="text-align: center;">x</p>

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	x
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan. B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	x
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	x
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating). B. Enforce codes and standards beyond FEMA minimum requirements. C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	x x x
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	x
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	x
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	x
8. Revise capital or operating budgets to include a line item for mitigation project funding.	x
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	x
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	x
11. Add hazard vulnerability to subdivision and site plan review criteria.	x
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	x
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	x
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	x
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	x
16. Protect life and property in high hazard areas by limiting densities of new development.	x
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	x
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	x
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	x
20. Implement hazard mitigation activities through existing plans and policies.	x
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	x



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Plan Integration Worksheet*

For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day ~~local~~ local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

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**KEYPORT**

Name: \_\_\_\_\_ Lorene  
 Wright \_\_\_\_\_

Title: \_\_\_\_\_  
 Business Administrator \_\_\_\_\_

KEYPORT

Community Name \_\_\_\_\_

DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE

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<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p>	
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008. <u>Reexamination with minor updates on December 20, 2012.</u></p>	<p>X</p>
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. <u>I have discussed as the CPG Coordinator with Mr. Burlew who is the flood plain manager and also the head of the building department</u></p>	<p>X</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury).</p>	<p>X</p>

KEYPORT

Community Name \_\_\_\_\_

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	
<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p>	X
<p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements. (The Borough's Construction official is also the Flood Plain Manager for the Borough. Enforcement is within the Building department ABFE+2)</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p>	
<p>F. Check here if your community has joined the CRS since 2009.</p>	X
<p>G. Check here if your community has dropped out of the CRS since 2009.</p>	X
<p>5. A. Check here if your community has a local zoning ordinance.</p>	X
<p>B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p>	
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.</p>	X
<p>B. If so, describe. All municipal projects are compared to FEMA best and most current information available.</p>	
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.</p>	X
<p>B. If so, describe. Construction Official is Flood plain Manager.</p>	
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.</p>	X
<p>B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).</p>	
<p>B. If so, describe.</p>	

KEYPORT

Community Name \_\_\_\_\_

<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).                  B. If so, describe. <u>Monthly</u></p>	<p>X</p>
<p>11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.                  B. If so, describe. <u>Flood Manager review, Borough Engineer employs best practices on plan review</u></p>	<p>X</p>
<p>12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.                  B. If so, describe.</p>	
<p>13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities.                  B. If so, describe. <u>Submitted letters of intent for projects within this plan/ongoing EPA consultations / DEP representatives / CAFRA</u></p>	<p>X</p>
<p>14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities.                  B. If so, describe.</p>	
<p>15. A. Check here if your community has a stormwater management plan.                  B. Check here if your community has a stormwater management ordinance.</p>	<p>X X</p>

10/15/2013

Keyport Borough

Community Name

TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	X
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	X
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	X
B. Enforce codes and standards beyond FEMA minimum requirements.	X
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	X
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	

2013

Community Name Keyport Borough

12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
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20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update  
Plan Integration Worksheet**

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- Targeted Plan Integration Activities for the Next Planning Cycle – Similarly, in the second component of this worksheet, we have outlined a series of plan integration activities for the next five-year planning cycle. Please document to FEMA the manner in which your community will commit to integrate the hazard mitigation plan into your local government operations from this point forward.

Where integration activities are carried out by another jurisdiction through an Intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring too.

Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

Name: Louise A. Mekash  
 Title: Borough Administrator  
 Representing: Lake Como Borough  
 Email and Phone: Lmekash@boro.lake-como.nj.us  
732-681-3232, ext 202

Community Name Lake Como Borough

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

Please check all activities that your municipality has undertaken over the last five years.

1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities? A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below. <i>The master plan addresses flooding flood areas and development in flood areas.</i>	✓
B. Check here if your municipality does not have a master, general, or comprehensive plan. C. Check here if your master, general or comprehensive was updated since 2008. ( <i>2009</i> ) D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below. <i>The mitigation plan will be incorporated in the next master plan update, only flooding (which is part of our plan) is addressed in master plan.</i>	✓
E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below. <i>NO, will be included in next master plan update.</i>	✓
3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. <i>Construction official is the Floodplain Administrator and enforces the local flood plain administration ordinance.</i>	✓
4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury). B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below. <i>Yes, the borough adopted the ABFE ordinance.</i>	✓

Community Name Lake Como Borough

- C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.
- D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements. DHA  
The Borough adopted the ABFE ordinance and enforced the guidelines of the ABFE ordinance.
- E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).
- F. Check here if your community has joined the CRS since 2009.
- G. Check here if your community has dropped out of the CRS since 2009.
- 5. A. Check here if your community has a local zoning ordinance.   
B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below. Zoning officer coordinates with Construction official and permits in the flood areas.
- 6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.   
B. If so, describe.
- 7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.   
B. If so, describe.
- 8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.   
B. Check here if capital or operating budgets already included this when the plan was first adopted.
- 9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).   
B. If so, describe. The borough council has always maintained an understanding of the importance of hazard mitigation by having Administrator and Engineer.
- 10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).   
B. If so, describe. DPW maintains stream behind homes on some line.
- 11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.   
B. If so, describe. Construction official reviews to determine if site plan is within flood area.
- 12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.   
B. If so, describe.

Community Name Lake Como Borough

13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe.	
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.	
15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	<input checked="" type="checkbox"/>

Community Name Lake Como Borough

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	✓
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	✓
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	✓
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	✓
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	✓
B. Enforce codes and standards beyond FEMA minimum requirements.	✓
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	✓
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	✓
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	✓
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	✓
8. Revise capital or operating budgets to include a line item for mitigation project funding.	✓
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	✓
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	✓
11. Add hazard vulnerability to subdivision and site plan review criteria.	✓
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	✓
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	✓
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	✓
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	✓
16. Protect life and property in high hazard areas by limiting densities of new development.	✓
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	✓
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	✓
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	✓
20. Implement hazard mitigation activities through existing plans and policies.	✓
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	✓

*No historic sites*



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

For this Plan Update, FEMA requires:

- a summary of each jurisdiction's past progress in plan integration over the last planning cycle; and
- a description of plan integration activities that each jurisdiction expects to undertake over the course of the next planning cycle.

This worksheet has been set up, therefore, into two components with each portion focusing on one of the bullets above.

- Demonstration of Progress over the Last Planning Cycle – In the first component of this worksheet, we have reiterated the targeted plan integration activities that were included in the last version of the plan (Section 9, beginning on Page 9-4) in a tabular form, and are asking each community to describe their respective accomplishments since the plan was adopted five years ago.
- Targeted Plan Integration Activities for the Next Planning Cycle – Similarly, in the second component of this worksheet, we have outlined a series of plan integration activities for the next five-year planning cycle. Please document to FEMA the manner in which your community will commit to integrate the hazard mitigation plan into your local government operations from this point forward.

Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring to.

Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** Frank Salerno

**Title:** OEM Coordinator

**Representing:** Borough of Little Silver

**Email and Phone:** Ph: 732-747-5900

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

Please check all activities that your municipality has undertaken over the last five years.

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p> <p><b>The Floodplain OEM Coordinator, Building Inspectors, Engineer/ Planner office attends FEMA and local seminars to maintain current and up to date knowledge of hazard mitigation issues. The Engineer/ Planner office will help ensure hazard mitigation elements to be incorporated into next master plan update.</b></p>	<p>X</p>
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	<p>X</p>
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p> <p><b>The Borough has adopted a Flood Damage Prevention Ordinance addressing residential and non-residential construction in accordance with the State model ordinance. The Engineer/ Planner office will help ensure hazard mitigation elements to be incorporated into next master plan update.</b></p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p> <p><b>Flood Damage Prevention Ordinance elements to be incorporated into next master plan update.</b></p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below.</p> <p><b>Building inspectors attend Hazard Mitigation seminars to understand and enforce current minimum building</b></p>	<p>X</p>

<p><b>standards and hazard mitigation elements.</b></p>	<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p> <p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p> <p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p> <p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p> <p><b>Within the Flood Damage Prevention Ordinance, the Borough enforces building heights 4 feet above the Advisory Base Flood Elevation.</b></p> <p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p> <p>F. Check here if your community has joined the CRS since 2009.</p> <p>G. Check here if your community has dropped out of the CRS since 2009.</p> <p>5. A. Check here if your community has a local zoning ordinance.</p> <p>B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p> <p><b>The Engineer's office is current with all hazard mitigation and flood damage prevention issues.</b></p> <p><b>Within the Engineer's office review, all development reviews submitted to the Borough must comply with NJDEP Flood Hazard Regulations, NJDP BMP standards, Coastal Wetlands ordinance (if applicable) and the Flood Damage Prevention Ordinance.</b></p> <p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.</p> <p>B. If so, describe.</p>	<p>X</p> <p>X</p> <p>X</p> <p>X</p>
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<p><b><i>In 2009, the Township adopted a Flood Damage Prevention Ordinance addressing residential and non-residential construction in accordance with the State model ordinance. The Flood Damage Prevention Ordinance was revised in April 2013 to include building heights 4 feet above the Advisory Base Flood Elevation.</i></b></p>		
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation. B. If so, describe.</p>		<b>X</b>
<p><b><i>The Borough Engineer is appointed as the Floodplain Manager.</i></b></p>		
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding. B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>		
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable). B. If so, describe.</p>		<b>X</b>
<p><b><i>The Borough Engineer is appointed as the Floodplain Manager. This appointment ensures mitigation goals continue to be achieved. The Borough Engineer is actively working with the NJDEP to remove debris within shoreline and stream areas.</i></b></p>		
<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently). B. If so, describe.</p>		
<p>11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria. B. If so, describe.</p>		<b>X</b>
<p><b><i>All development reviews submitted to the Borough must comply with NJDEP Flood Hazard Regulations, NJDP BMP standards, Coastal Wetlands ordinance (if applicable) and the Flood Damage Prevention</i></b></p>		

<b>Ordinance.</b>	
12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards. B. If so, describe.	
13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe.	
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.	
15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	<p style="text-align: right;"><b>X</b></p> <p style="text-align: right;"><b>X</b></p>

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

*Please check all activities that your municipality is committing to undertake over the next five years.*

1.	CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	
2.	A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	X
	B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	
3.	Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4.	A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	X
	B. Enforce codes and standards beyond FEMA minimum requirements.	
	C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X
5.	Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	X
6.	Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7.	Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	X
8.	Revise capital or operating budgets to include a line item for mitigation project funding.	
9.	Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	X
10.	Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11.	Add hazard vulnerability to subdivision and site plan review criteria.	X
12.	Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13.	Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14.	Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15.	Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16.	Protect life and property in high hazard areas by limiting densities of new development.	X
17.	Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18.	Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19.	Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20.	Implement hazard mitigation activities through existing plans and policies.	X

21.	Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X
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**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Plan Integration Worksheet*

For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

For this Plan Update, FEMA requires:

- a summary of each jurisdiction's past progress in plan integration over the last planning cycle; and
- a description of plan integration activities that each jurisdiction expects to undertake over the course of the next planning cycle.

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Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring to.

Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** \_\_\_\_\_ *Peter R. Avakian P.E.*

**Title:** \_\_\_\_\_ *Floodplain Administrator*

**Representing:** \_\_\_\_\_ *Village of Loch Arbour*

**Email and Phone:** \_\_\_\_\_ *Ph: 732-922-9229 Isavakian@aol.com*

### DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE

Please check all activities that your municipality has undertaken over the last five years.

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	<p><b>X</b></p>
<p>2. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p> <p><b>The Floodplain Administrator/ Engineer office attends FEMA and local seminars to maintain current and up to date knowledge of hazard mitigation issues.</b></p>	<p><b>X</b></p>
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	<p><b>X</b></p>
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	<p><b>X</b></p>
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p> <p><b>The Village has adopted a Flood Damage Prevention Ordinance addressing residential and non-residential construction in accordance with the State model ordinance.</b></p>	<p><b>X</b></p>
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p> <p><b>Flood Damage Prevention Ordinance</b></p>	<p><b>X</b></p>
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below.</p> <p><b>The State provides all building inspectors for the Village. The State building inspectors enforce current minimum standards.</b></p>	<p><b>X</b></p>

<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p> <p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p> <p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p> <p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p> <p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p> <p>F. Check here if your community has joined the CRS since 2009.</p> <p>G. Check here if your community has dropped out of the CRS since 2009.</p>	<p><b>X</b></p>
<p>5. A. Check here if your community has a local zoning ordinance.</p> <p>B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p> <p style="text-align: center;"><b>All development reviews submitted to the Village must comply with NJDEP Flood Hazard Regulations, NJDEP BMP standards and the Village Flood Damage Prevention Ordinance.</b></p>	<p><b>X</b></p>
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.</p> <p>B. If so, describe.</p> <p style="text-align: center;"><b>In 2009, the Village adopted a Flood Damage Prevention Ordinance addressing residential and non-residential construction in accordance with the State model ordinance.</b></p>	<p><b>X</b></p>
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.</p> <p>B. If so, describe.</p>	<p><b>X</b></p>

<b><i>The Village Engineer is appointed as the Floodplain Administrator</i></b>		
8.	A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding. B. Check here if capital or operating budgets already included this when the plan was first adopted.	
9.	A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable). B. If so, describe.	<b>X</b>
<b><i>The Village Engineer is appointed as the Floodplain Administrator</i></b>		
10.	A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently). B. If so, describe.	<b>X</b>
<b><i>The Village has adopted a Municipal Stormwater Management Plan that ensures regular maintenance of storm facilities and allows shared services with the City of Asbury Park which allows Asbury Park to provide routine street sweeping within the Village</i></b>		
11.	A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria. B. If so, describe.	<b>X</b>
<b><i>All development reviews submitted to the Village must comply with NJDEP Flood Hazard Regulations, NJDEP BMP standards and the Village Flood Damage Prevention Ordinance.</i></b>		
12.	Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards. B. If so, describe.	
13.	Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities.	<b>X</b>

<p>B. If so, describe.</p> <p><b><i>The Village of Loch Arbour has applied for grant money under the Hazard Mitigation Grant Program for damage occurred under Super Storm Sandy.</i></b></p>	
<p>14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities.</p> <p>B. If so, describe.</p>	
<p>15. A. Check here if your community has a stormwater management plan.</p> <p>B. Check here if your community has a stormwater management ordinance.</p>	<p>X</p> <p>X</p>

### TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	X
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	X
B. Enforce codes and standards beyond FEMA minimum requirements.	
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	X
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	X
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	X
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	X
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	<p>X</p>
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p>	
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	<p>X</p>
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below.</p>	<p>X</p>
<p>The Construction Official is the Flood Plain Manager and has attended all required updates and is assuring compliance.</p>	
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury).</p>	<p>X</p>
<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	

C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.	
D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.	
E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).	
F. Check here if your community has joined the CRS since 2009.	
G. Check here if your community has dropped out of the CRS since 2009.	
5. A. Check here if your community has a local zoning ordinance.	X
B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below. The Flood Plain Manager and Zoning Official have met with the local Zoning Board and have educated them on the advantages of low-density zoning practices in hazard areas.	X
6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.	
B. If so, describe.	
7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.	
B. If so, describe.	
8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.	
B. Check here if capital or operating budgets already included this when the plan was first adopted.	
9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).	
B. If so, describe.	
10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).	
B. If so, describe.	
11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.	
B. If so, describe.	
12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.	
B. If so, describe.	
13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities.	
B. If so, describe.	
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities.	
B. If so, describe.	
15. A. Check here if your community has a stormwater management plan.	X
B. Check here if your community has a stormwater management ordinance.	X

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	X
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	X
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	X
B. Enforce codes and standards beyond FEMA minimum requirements.	
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	X
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	X
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	X
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

For this Plan Update, FEMA requires:

- a summary of each jurisdiction's past progress in plan integration over the last planning cycle; and
- a description of plan integration activities that each jurisdiction expects to undertake over the course of the next planning cycle.

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- Demonstration of Progress over the Last Planning Cycle – In the first component of this worksheet, we have reiterated the targeted plan integration activities that were included in the last version of the plan (Section 9, beginning on Page 9-4) in a tabular form, and are asking each community to describe their respective accomplishments since the plan was adopted five years ago.
- Targeted Plan Integration Activities for the Next Planning Cycle – Similarly, in the second component of this worksheet, we have outlined a series of plan integration activities for the next five-year planning cycle. Please document to FEMA the manner in which your community will commit to integrate the hazard mitigation plan into your local government operations from this point forward.

Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring to.

Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

Name: James Winckowski, PE

Title: Assistant Township Engineer

Representing: Manalapan Township

Email and Phone: jwinckowski@cmeusa1.com 732-462-7400

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	<p>X</p>
<p>2. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below. The Hazard Mitigation Plan Update was discussed at various planning board meetings and recommendation made to include Hazard Mitigation Planning within the next update or re-examination of the Manalapan Township Master Plan.</p>	<p>X</p>
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	<p>X</p>
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	<p>X</p>
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	<p>-</p>
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	<p>-</p>
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. Routine discussions are held between the Zoning Office, Construction Dept. and Township Engineer's office that review the township flood hazard protection ordinances, locations of Flood Hazard Areas and certifications/documentation to be submitted prior to issuance of a building permit for a structure within a Flood Hazard Area.</p>	<p>X</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury).</p>	<p>X</p>

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.                  The flood prevention ordinance was reviewed by the construction official, township engineer and flood plain administrator. It was determined that enforcement beyond FEMA requirements was not required. The development of new residential or commercial structures within a Flood Hazard Area is not permitted in the Township of Manalapan.</p>	<p><b>X</b></p>
<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p>	<p>n/a</p>
<p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p>	<p>No</p>
<p>F. Check here if your community has joined the CRS since 2009.</p>	<p>No</p>
<p>G. Check here if your community has dropped out of the CRS since 2009.</p>	<p>No</p>
<p>5. A. Check here if your community has a local zoning ordinance.</p>	<p><b>X</b></p>
<p>B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p>	<p><b>X</b></p>
<p>The Zoning Board has been advised of the flood protection ordinance of the Township which prevents the development of structures with Flood Hazard Areas. Each site plan and subdivision application appearing before the Zoning Board is checked for compliance to the Flood Control Ordinance.</p>	
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.</p>	<p><b>X</b></p>
<p>B. If so, describe.</p>	
<p>Structures are now investigated for Substantial Damage Determination after flood events</p>	
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.</p>	<p>No</p>
<p>B. If so, describe</p>	
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.</p>	<p>No</p>
<p>B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	<p>No</p>
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).</p>	<p><b>X</b></p>
<p>B. If so, describe.</p>	
<p>The Township Engineer was authorized to proceed with execution of a HMGP application for the acquisition of 100 Wilson Ave in order to remove</p>	

<p>the structure from a flood hazard area and convert the property to open space. The project was awarded funding and the State is in the process of closing on the property; demolition is expected in the next 3-4 months.</p>	
<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).                  B. If so, describe.                  The DPW more frequently inspects streams and waterways, where feasible, and removes built up sediment, felled trees and limbs and other debris where permitted.</p>	<p>X</p>
<p>11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.                  B. If so, describe.                  Each subdivision and site plan submitted is reviewed for conformance to the Flood Control Ordinance and Flood Hazard Overlay Zone District, if applicable.</p>	<p>X</p>
<p>12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.                  B. If so, describe.</p>	<p>No</p>
<p>13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities.                  B. If so, describe.                  The township has solicited for funding grants and services from FEMA, the NJDEP and the County for flood mitigation projects such as property acquisition and flood prevention.</p>	<p>X</p>
<p>14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities.                  B. If so, describe.</p>	<p>No</p>
<p>15. A. Check here if your community has a stormwater management plan.                  B. Check here if your community has a stormwater management ordinance.</p>	<p>X X</p>

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	X
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan. B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	X
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating). B. Enforce codes and standards beyond FEMA minimum requirements. C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	X
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	X
8. Revise capital or operating budgets to include a line item for mitigation project funding.	X
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	X
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	X
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	X
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	X
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	X
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	X
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

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Name: Christopher Tucker

Title: EMERGENCY MANAGEMENT COORDINATOR

Representing: BOROUGH OF MANASQUAN

Email and Phone: oem@manasquan-nj.com (732) 299-7190

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	<p>X</p>
<p>2. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p>	
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	<p>X</p>
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	<p>X</p>
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.  <b>Manasquan adopted a new Flood Damage Prevention ordinance on 09/14/2009 adopting revised Flood Insurance Study, new Flood Insurance Rate Maps and DFIRM Panels. Furthermore, Manasquan revised its Floodplain Ordinance on 10/07/2013 to include definitions for "Cumulative Substantial Improvement" revising definition for "Substantial Damage" and "Substantial Improvement" and removing the definition of sand dune.</b></p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. <b>VERIFIED THAT BUILDINGS DEPT ENFORCES IBC</b></p>	<p>X</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury).</p>	<p>X</p>

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	
<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p>	X
<p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements. Requiring structures to be constructed 1' above FEMA Base Flood Elevations</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p>	X
<p>F. Check here if your community has joined the CRS since 2009.</p>	
<p>G. Check here if your community has dropped out of the CRS since 2009.</p>	
<p>5. A. Check here if your community has a local zoning ordinance. B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below. Advised and solicited input from planning board, however Manasquan is "built-out" and as such already has low density zoning in hazard areas.</p>	X X
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities. B. If so, describe. Office of Emergency Management has taken lead in ensuring an effective hazard mitigation strategy</p>	X
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation. B. If so, describe. Position of Hazard Mitigation Specialist is being created and is expected to be complete by 11/01/13</p>	X
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding. B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	X
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable). B. If so, describe. Manasquan is in the process of formally adopting a Hazard Mitigation Advisory Committee that will memorialize the membership &amp; responsibilities of the current Jurisdictional Assessment Team (11/01/13)</p>	X

Community Name MANASQUAN BOROUGH

10.	A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently). B. If so, describe.	
11.	A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria. B. If so, describe.	
12.	Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards. B. If so, describe.	
13.	Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe. Working with state floodplain management office for technical assistance with floodplain mitigation. Met with NJDEP Office of Dam Safety & Flood Control	X
14.	Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe. Working with Stevens Institute Davidson Laboratory on Flood Warning and surge modeling.	X
15.	A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	X X

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

*Please check all activities that your municipality is committing to undertake over the next five years.*

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	X
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan. B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	X
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating). B. Enforce codes and standards beyond FEMA minimum requirements. C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	X
8. Revise capital or operating budgets to include a line item for mitigation project funding.	X
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	X
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	X
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	X
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	X
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

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**Name: \_\_Robert Miller**

**Title: \_\_Deputy OEM Coordinator**

**Representing: \_\_Township of Marlboro**

**Email and Phone: \_\_bmiller@marlboro-nj.gov 732-536-0188**

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	<p>✓</p>
<p>2. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p>	<p>✓</p>
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. We met with the Construction Official and affirmed that the Construction Department is enforcing the current New Jersey edition of the International Building Code.</p>	<p>✓</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury).</p>	<p>✓</p>

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below. Discussed situation with our current floodplain administrator and based on the lack of documented issues within the Township he was not comfortable with enforcing stricter requirements.</p> <p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p> <p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p> <p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p> <p>F. Check here if your community has joined the CRS since 2009.</p> <p>G. Check here if your community has dropped out of the CRS since 2009.</p>	<p>✓</p>
<p>5. A. Check here if your community has a local zoning ordinance.</p> <p>B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below. Reviewed the current zoning ordinance with the Zoning Officer and the hazard areas are zoned as recommended.</p>	<p>✓</p> <p>✓</p>
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.</p> <p>B. If so, describe.</p>	
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.</p> <p>B. If so, describe.</p>	
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.</p> <p>B. Check here if capital or operating budgets already included this when the plan was first adopted.</p> <p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).</p> <p>B. If so, describe.</p>	<p>✓</p>

10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently). B. If so, describe. DPW's stream clearing program expanded in 2012 to complete more affected areas and expanded again in 2013 to include a crew dedicated to clearing as much as possible without specific permits.		✓
11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria. B. If so, describe.		
12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards. B. If so, describe.		
13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe.		
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.		
15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.		✓ ✓

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	✓
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan. B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	✓
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating). B. Enforce codes and standards beyond FEMA minimum requirements. C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	✓
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	✓
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	✓
11. Add hazard vulnerability to subdivision and site plan review criteria.	
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	✓
16. Protect life and property in high hazard areas by limiting densities of new development.	
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	✓
20. Implement hazard mitigation activities through existing plans and policies.	✓
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

For this Plan Update, FEMA requires:

- a summary of each jurisdiction's past progress in plan integration over the last planning cycle; and
- a description of plan integration activities that each jurisdiction expects to undertake over the course of the next planning cycle.

This worksheet has been set up, therefore, into two components with each portion focusing on one of the bullets above.

- Demonstration of Progress over the Last Planning Cycle – In the first component of this worksheet, we have reiterated the targeted plan integration activities that were included in the last version of the plan (Section 9, beginning on Page 9-4) in a tabular form, and are asking each community to describe their respective accomplishments since the plan was adopted five years ago.
- Targeted Plan Integration Activities for the Next Planning Cycle – Similarly, in the second component of this worksheet, we have outlined a series of plan integration activities for the next five-year planning cycle. Please document to FEMA the manner in which your community will commit to integrate the hazard mitigation plan into your local government operations from this point forward.

Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring to.

Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** Sgt. Thomas J. Falco  
**Title:** Emergency Management Coordinator  
**Representing:** Matawan Borough  
**Email and Phone:** tfalco@matawanpolice.org (732)290-2024

**Matawan Borough**

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p> <p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p> <p>C. Check here if your master, general or comprehensive was updated since 2008.</p> <p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p> <p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below.</p>	
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p> <p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	<p>X</p>

## Matawan Borough

C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.	
D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.	
E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).	
F. Check here if your community has joined the CRS since 2009.	
G. Check here if your community has dropped out of the CRS since 2009.	X
5. A. Check here if your community has a local zoning ordinance.	
B. Check here if you (or your predecessor on the CPC) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.	
6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.	
B. If so, describe.	
7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.	
B. If so, describe.	
8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.	X
B. Check here if capital or operating budgets already included this when the plan was first adopted.	
9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).	
B. If so, describe.	
10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).	
B. If so, describe.	
11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.	X
B. If so, describe. <i>Flooding and erosion vulnerability</i>	
12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.	
B. If so, describe.	

# Matawan Borough

Community Name

13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities.	X
B. If so, describe HMP Application / LAI AND REVIEW.	
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities.	
B. If so, describe.	
15. A. Check here if your community has a stormwater management plan.	X
B. Check here if your community has a stormwater management ordinance.	X

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	X
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	X
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	X
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	X
B. Enforce codes and standards beyond FEMA minimum requirements.	X
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	X
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	X
8. Revise capital or operating budgets to include a line item for mitigation project funding.	X
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	X
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	X
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	X
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	X
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	X
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

For this Plan Update, FEMA requires:

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- a description of plan integration activities that each jurisdiction expects to undertake over the course of the next planning cycle.

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Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring to.

Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** Charles W. Rogers III

**Title:** OEM Coordinator

**Representing:** Middletown Township

**Email and Phone:** 732-615-2129, [crogers@middletownnj.org](mailto:crogers@middletownnj.org)

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	
<p>2. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p>	
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	<p>X</p>
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. <b>We confirmed this as part of the CRS program requirements</b></p>	<p>X</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p>	<p>X</p>
<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below. <b>Planning and Development Regulations regarding floodplains were amended as part of application for the CRS program</b></p>	<p>X</p>

<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p>		
<p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p>		
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p>		x
<p>F. Check here if your community has joined the CRS since 2009. <b>Community ID 340313 - <a href="http://www.fema.gov/media-library-data/20130726-1651-20490-3916/19_crs_may2013_3.14.13.pdf">http://www.fema.gov/media-library-data/20130726-1651-20490-3916/19_crs_may2013_3.14.13.pdf</a> (Middletown Township is Misspelled as Middleton Township)</b></p>		x
<p>G. Check here if your community has dropped out of the CRS since 2009.</p>		
<p>5. A. Check here if your community has a local zoning ordinance.</p>		x
<p>B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p>		
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.</p>		
<p>B. If so, describe.</p>		
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.</p>		
<p>B. If so, describe.</p>		
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.</p>		
<p>B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>		
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).</p>		
<p>B. If so, describe.</p>		
<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).</p>		
<p>B. If so, describe.</p>		
<p>11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.</p>		
<p>B. If so, describe.</p>		

Community Name Middletown Township

12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards. B. If so, describe.		
13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe. <b>We have submitted LOIs for hazard mitigations projects to the state.</b>	x	
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.		
15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	x	x

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

*Please check all activities that your municipality is committing to undertake over the next five years.*

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	X
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	X
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	X
B. Enforce codes and standards beyond FEMA minimum requirements.	
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	X
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

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**Name:** Matt Shafai, P.E.  
**Title:** Floodplain Administrator  
**Representing:** Township of Millstone  
**Email and Phone:** Ph: 732-922-9229 mattshafai@aol.com

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

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<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p> <p><b>The Floodplain Administrator / Engineer office attends FEMA and local seminars to maintain current and up to date knowledge of hazard mitigation issues. The Township Engineer has been designated as the Floodplain Administrator and is also the Planning Board Engineer and Zoning Board of Adjustment Engineer and attends monthly board meetings and updates board members regarding hazard mitigation issues. The Engineer / Planner office will ensure hazard mitigation elements are incorporated into the next master plan update.</b></p>	<p>X</p>
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	<p>X</p>
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p> <p><b>The Township has adopted a Flood Damage Prevention Ordinance addressing residential and non-residential construction in accordance with the State model ordinance. The Engineer / Planner office will ensure hazard mitigation elements are incorporated in the next master plan update.</b></p>	<p>X</p>
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p> <p><b>The Flood Damage Prevention Ordinance elements were added to the document and will be incorporated into the next master plan update.</b></p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below.</p> <p><b>The previous CPG member coordinated with the building department to ensure that all inspectors were enforcing the established minimum standards and that inspectors were kept current with hazard mitigation elements. This</b></p>	<p>X</p>

<p><b>process continues under the current CPG member. The Township building inspectors attend hazard mitigation seminars and enforce the current minimum building standards and hazard mitigation elements.</b></p>	<p><b>X</b></p> <p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p> <p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p> <p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p> <p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p> <p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p> <p>F. Check here if your community has joined the CRS since 2009.</p> <p>G. Check here if your community has dropped out of the CRS since 2009.</p> <p>5. A. Check here if your community has a local zoning ordinance.</p> <p>B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p> <p><b>The Engineer's office is current with all hazard mitigation and flood damage prevention issues and coordinates with Township officials to ensure that they are working towards the same goals. The Township Engineer is also the Zoning Board Engineer and as such works with the Zoning Board to keep board members informed of the hazard mitigation plan and encourages appropriate building in flood hazard areas. Within the Engineer's office review, all development reviews submitted to the Township must comply with NJDEP Flood Hazard Regulations, NJDEP BMP standards and the Township Flood Damage Prevention Ordinance.</b></p> <p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.</p> <p>B. If so, describe.</p> <p><b>In 2009, the Township adopted a Flood Damage Prevention Ordinance addressing residential and non-residential construction in accordance with the State model ordinance.</b></p> <p><b>X</b></p>
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<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation. B. If so, describe.</p>	<p><b>X</b></p>
<p><b>The Township Engineer is appointed as the Floodplain Administrator.</b></p>	
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.</p>	<p><b>X</b></p>
<p>B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).</p>	<p><b>X</b></p>
<p>B. If so, describe.</p>	
<p><b>The Township Engineer is appointed as the Floodplain Administrator. This appointment ensures mitigation goals continue to be achieved and evaluated. Under the New Jersey Transportation Trust Fund, the Township Engineer's office actively works on upgrading roadway and drainage issues throughout the Township.</b></p>	
<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).</p>	
<p>B. If so, describe.</p>	
<p>11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.</p>	<p><b>X</b></p>
<p>B. If so, describe.</p>	
<p><b>All development reviews submitted to the Township must comply with NJDEP Flood Hazard Regulations, NJDEP BMP standards and the Township Flood Damage Prevention Ordinance.</b></p>	
<p>12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.</p>	
<p>B. If so, describe.</p>	
<p>13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities.</p>	
<p>B. If so, describe.</p>	
<p>14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities.</p>	
<p>B. If so, describe.</p>	
<p>15. A. Check here if your community has a stormwater management plan.</p>	<p><b>X</b></p>
<p>B. Check here if your community has a stormwater management ordinance.</p>	<p><b>X</b></p>

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan. B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	X
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating). B. Enforce codes and standards beyond FEMA minimum requirements. C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	X
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	X
8. Revise capital or operating budgets to include a line item for mitigation project funding.	X
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	X
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	X
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	X
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

For this Plan Update, FEMA requires:

- a summary of each jurisdiction's past progress in plan integration over the last planning cycle; and
- a description of plan integration activities that each jurisdiction expects to undertake over the course of the next planning cycle.

This worksheet has been set up, therefore, into two components with each portion focusing on one of the bullets above.

- Demonstration of Progress over the Last Planning Cycle – In the first component of this worksheet, we have reiterated the targeted plan integration activities that were included in the last version of the plan (Section 9, beginning on Page 9-4) in a tabular form, and are asking each community to describe their respective accomplishments since the plan was adopted five years ago.
- Targeted Plan Integration Activities for the Next Planning Cycle – Similarly, in the second component of this worksheet, we have outlined a series of plan integration activities for the next five-year planning cycle. Please document to FEMA the manner in which your community will commit to integrate the hazard mitigation plan into your local government operations from this point forward.

Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring to.

Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

Name:     Dennis Cahill    

Title:     OEM Coordinator    

Representing:     Borough of Monmouth Beach    

Email and Phone:     monmouthbeachoem@gmail.com ; 732-229-1331

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	
<p>2. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below. Bonnie Herd of T&amp;M Associates, as our Land Use Planner and the Borough's Zoning Officer, attends the CPG meetings with Dennis Cahill, our OEM Director (and previous and current CPG member), and reviews and ensures that all hazard mitigation plan findings are incorporated in land use ordinances, capital improvement projects, and master plan updates.</p>	<p>x</p>
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	<p>x</p>
<p>D. If you checked box 2C, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below. The master plan was updated in 2012 to further address stormwater/flood management to address flooding and flash flooding from high tides, northeast storms, heavy rains, hurricanes, and snow events.</p>	<p>x</p>
<p>E. If you checked box 2C, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. Dennis Cahill, our OEM Director (and previous and current CPG member) and Don Clair, our Construction Official, maintain regular communication to ensure that the Borough has adopted and is enforcing the minimum standards. In addition, the Construction Official is a certified Floodplain Manager and has applied to participate in the Community Rating System and is awaiting approval.</p>	<p>x</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury).</p>	<p>x</p>

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p> <p>Dennis Cahill, our OEM Director (and previous and current CPG member) and Don Clair, our Construction Official, maintain regular communication regarding the need to adopt and enforce more stringent floodplain management requirement. As a result, the Floodplain Management Ordinance was modified to adopt ABFE plus 3 feet of freeboard. In addition, the Borough has applied to participate in the Community Rating System and is pending approval.</p> <p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p> <p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p>	<p>x</p>
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p> <p>F. Check here if your community has joined the CRS since 2009.</p> <p>G. Check here if your community has dropped out of the CRS since 2009.</p>	
<p>5. A. Check here if your community has a local zoning ordinance.</p> <p>B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p>	<p>x</p>
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.</p> <p>B. If so, describe.</p>	
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.</p> <p>B. If so, describe.</p>	
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.</p> <p>B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).</p> <p>B. If so, describe.</p>	

Community Name \_\_\_\_\_ Monmouth Beach \_\_\_\_\_

<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently). B. If so, describe.</p>	
<p>11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria. B. If so, describe.</p>	
<p>12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards. B. If so, describe.</p>	
<p>13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe.</p>	x
<p>Submitted LOI's to State Mitigation for HMGP 4086</p>	
<p>14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.</p>	
<p>15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.</p>	x
	x

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	x
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan. B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	x
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating). B. Enforce codes and standards beyond FEMA minimum requirements. C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	x x x
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	x
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	x
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	x
11. Add hazard vulnerability to subdivision and site plan review criteria.	
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	x
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	x

Community Name

Borough of Neptune City

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	<p>A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p> <p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p> <p>C. Check here if your master, general or comprehensive was updated since 2008.</p> <p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p> <p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below.</p>	<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury).</p> <p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>

Community Name Borough of Neptune City

C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.	
D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.	
E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).	
F. Check here if your community has joined the CRS since 2009.	
G. Check here if your community has dropped out of the CRS since 2009.	
5. A. Check here if your community has a local zoning ordinance.	
B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.	
6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.	
B. If so, describe.	
7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.	
B. If so, describe.	
8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.	
B. Check here if capital or operating budgets already included this when the plan was first adopted.	
9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).	
B. If so, describe.	
10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).	
B. If so, describe. <u>We have adopted Stormwater Management Ordinances. The Public Works cleans storm drains weekly, before any weather event and all ditches 2x a year.</u>	
11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.	
B. If so, describe.	
12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.	
B. If so, describe.	

Community Name Borough of Neptune City

13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe. <u>We have applied for funding with FEMA for grants,</u>	<input checked="" type="checkbox"/>
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.	<input type="checkbox"/>
15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	<input checked="" type="checkbox"/>



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

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Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring too.

Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** \_\_\_\_\_

**Title:** \_\_\_\_\_

**Representing:** \_\_\_\_\_

**Email and Phone:** \_\_\_\_\_

Community Name \_\_\_\_\_

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?	
2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below. This Department sits on the MasterPlan Subcommittee. We have incorporated language in the Master Plan and subsequent documents regarding limited development in flood prone areas. All planning members have copies of Master Plan and any updates B. Check here if your municipality does not have a master, general, or comprehensive plan. C. Check here if your master, general or comprehensive was updated since 2008. D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below. The Conservation element was updated to incorporate the FEMA grants and funding The Utility section was updated to reflect the new Stormwater Ordinance that was amended 2009.	
E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.	
3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. Verbally talk to and work with building department regarding the current code updates adopted by ordinance through the clerk's office. Work with building department on structures in flood areas and that elevations are at or above flood.	
4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury) <b>Yes</b> B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your	
<b>The Township is requiring new finished floor elevations at a height greater than the 1% flood elevation. The township of Neptune requires the new finished floor elevations to be at or above the .02% flood elevation</b>	

Community Name \_\_\_\_\_

C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.
D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.
E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).
F. Check here if your community has joined the CRS since 2009.
G. Check here if your community has dropped out of the CRS since 2009.
5. A. Check here if your community has a local zoning ordinance.
B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.
6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.
B. If so, describe. Zoning relief for height in flood zone areas, measuring from BFE as adopted not existing grade. Also adopted .02% BFE of 12 instead of the 1% 100 year storm.
7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.
B. If so, describe.
8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.
B. Check here if capital or operating budgets already included this when the plan was first adopted.
9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).
B. If so, describe.
10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).
B. If so, describe. More frequent cleaning of storm drains in Flood Hazard Areas
11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.
B. If so, describe. Updated all checklists to add special flood area zones to all applications and mapping
12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.
B. If so, describe.

Community Name \_\_\_\_\_

13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe. We have applied to NRCS and received monies; we have previously applied to FEMA and received funding in prior rounds and have applied again for additional funding.	
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.	
15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	

Community Name \_\_\_\_\_

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

*Please check all activities that your municipality is committing to undertake over the next five years.*

1.	CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.
2.	A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan. B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.
3.	Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).
4.	A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating). B. Enforce codes and standards beyond FEMA minimum requirements. C. Join (or continue to maintain participation in) the NFIP's Community Rating System.
5.	Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.
6.	Modify work plans, policies or procedures to include hazard mitigation concepts/activities.
7.	Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.
8.	Revise capital or operating budgets to include a line item for mitigation project funding.
9.	Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.
10.	Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.
11.	Add hazard vulnerability to subdivision and site plan review criteria.
12.	Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.
13.	Reach out to state agencies for assistance with natural hazard mitigation activities.
14.	Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.
15.	Adopt (or continue to enforce) a local stormwater management plan/ordinance.
16.	Protect life and property in high hazard areas by limiting densities of new development.
17.	Increase resilience by limiting the extension of public infrastructure in high hazard areas.
18.	Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.
19.	Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.
20.	Implement hazard mitigation activities through existing plans and policies.
21.	Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update Plan Integration Worksheet

For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

For this Plan Update, FEMA requires:

- a summary of each jurisdiction's past progress in plan integration over the last planning cycle; and
- a description of plan integration activities that each jurisdiction expects to undertake over the course of the next planning cycle.

This worksheet has been set up, therefore, into two components with each portion focusing on one of the bullets above.

- Demonstration of Progress over the Last Planning Cycle – In the first component of this worksheet, we have reiterated the targeted plan integration activities that were included in the last version of the plan (Section 9, beginning on Page 9-4) in a tabular form, and are asking each community to describe their respective accomplishments since the plan was adopted five years ago.
- Targeted Plan Integration Activities for the Next Planning Cycle – Similarly, in the second component of this worksheet, we have outlined a series of plan integration activities for the next five-year planning cycle. Please document to FEMA the manner in which your community will commit to integrate the hazard mitigation plan into your local government operations from this point forward.

Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring too.

Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

Name: Tom Caruso

Title: Director of Emergency Management

Representing: Ocean Township

Email and Phone: tcaruso@oceantwp.org // 732-531-5000, x3378

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	<p><b>X</b></p>
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below</p>	
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	<p><b>X</b></p>
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. Met with the construction building and discussed the latest code updates to assure what they adopted and enforce is at least the minimum standard.</p>	<p><b>X</b></p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p>	<p><b>X</b></p>

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.  <u>An email was sent to the Flood plain admin who will be discussing the options with the Township Manager and others who has input of the subject for ordinance change.</u></p>	<p><b>X</b></p>
<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p>	
<p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS)</p>	
<p>F. Check here if your community has joined the CRS since 2009.</p>	
<p>G. Check here if your community has dropped out of the CRS since 2009.</p>	
<p>5. A. Check here if your community has a local zoning ordinance.</p>	<p><b>X</b></p>
<p>B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas when practicable. Please describe your coordination efforts in the space below.                  Met with the zoning official and engineer and discussed the latest code updates to assure what they adopted in the low occupancy, low density zoning in hazard areas were practical.</p>	<p><b>X</b></p>
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.</p>	
<p><b>B. If so, describe.</b></p>	
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.</p>	<p><b>X</b></p>
<p><b>B. If so, describe. New job description being created for Code Enforcement</b></p>	
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.</p>	
<p>B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).</p>	<p><b>NA</b></p>
<p>B. If so, describe.</p>	
<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and</p>	<p><b>Yes</b></p>

cleaning debris from streams and ditches (i.e., more frequently). B. If so, describe.	
<b>Prior to every storm, streams are checked and debris is removed along with storm drains.</b>	
11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria. B. If so, describe.	
12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards. B. If so, describe.	
13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe.	X
<b>Discussed with DEP on more enforcement with dumping is streams</b>	
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.	X
<b>Monmouth University</b>	
15. A. Check here if your community has a stormwater management plan.	X
B. Check here if your community has a stormwater management ordinance.	X

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

*Please check all activities that your municipality is committing to undertake over the next five years.*

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	<b>X</b>
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	<b>X</b>
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	<b>X</b>
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	<b>X</b>
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	<b>X</b>
B. Enforce codes and standards beyond FEMA minimum requirements.	
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	<b>X</b>
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	<b>X</b>
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	<b>X</b>
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	<b>X</b>
11. Add hazard vulnerability to subdivision and site plan review criteria.	
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	<b>X</b>
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	<b>X</b>
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	
16. Protect life and property in high hazard areas by limiting densities of new development.	
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	<b>X</b>
20. Implement hazard mitigation activities through existing plans and policies.	<b>X</b>
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	<b>X</b>



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

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**Name:** Mauro V. "Buzz" Baldanza

**Title:** OEM Coordinator

**Representing:** Oceanport Borough

**Email and Phone:** OPD415@verizon.net 732-904-0520 cellphone

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below. <b>Presented this plan and a resilience plan developed thru Monmouth University and Sea Grant</b></p>	<p><b>X</b></p>
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	<p><b>X</b></p>
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. Meeting with Construction Official and Boro Engineer to review and confirm compliance</p>	<p><b>X</b></p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p>	<p><b>X</b></p>



<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).                  B. If so, describe. <b>Working with County and Mosquito Commission to clean ditches: SOP to clean drains prior to arrival of large storms.</b></p>	<p><b>X</b></p>
<p>11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.                  B. If so, describe. <b>Drainage and elevation</b></p>	<p><b>X</b></p>
<p>12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.                  B. If so, describe.</p>	<p>N/A</p>
<p>13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities.                  B. If so, describe. <b>Submitted Letter of Intent for funding; no funding provided</b></p>	<p><b>X</b></p>
<p>14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities.                  B. If so, describe. <b>Have worked with Monmouth University and Stevens Institute of Technology, and still doing so</b></p>	<p><b>X</b></p>
<p>15. A. Check here if your community has a stormwater management plan.                  B. Check here if your community has a stormwater management ordinance.</p>	<p><b>X</b> <b>X</b></p>

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	X
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	X
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	X
B. Enforce codes and standards beyond FEMA minimum requirements.	X
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	X
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	X
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	N/A
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	X
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	X
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	X
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Plan Integration Worksheet*

For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

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Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring too.

Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

Name: THOMAS J. WELSN

Title: OEM COORDINATOR

Representing: BOROUGH OF RED BANK

Email and Phone: TWELSN@RED BANK NJ.ORG , 732-904-6865

Community Name Red Bank Borough

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

Please check all activities that your municipality has undertaken over the last five years.

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	<p><input checked="" type="checkbox"/></p>
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p>	<p><input type="checkbox"/></p>
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	<p><input type="checkbox"/></p>
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	<p><input checked="" type="checkbox"/></p>
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	<p><input type="checkbox"/></p>
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	<p><input type="checkbox"/></p>
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below.</p>	<p><input type="checkbox"/></p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p>	<p><input checked="" type="checkbox"/></p>
<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	<p><input type="checkbox"/></p>

*I was not a participant of the CPG at the time of the previous Plan, I do not believe my predecessor did so.*

Community Name Red Bank Borough

C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.	
D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.	
E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).	
F. Check here if your community has joined the CRS since 2009.	
G. Check here if your community has dropped out of the CRS since 2009.	
5. A. Check here if your community has a local zoning ordinance.	
B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.	
6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.	X
B. If so, describe.	<u>Flood Ordinance has been changed to include ABFE.</u>
7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.	
B. If so, describe.	
8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.	X
B. Check here if capital or operating budgets already included this when the plan was first adopted.	
9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).	
B. If so, describe.	<u>The Borough has line item in budget to maintain storm drains/cleanlots</u>
10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).	X
B. If so, describe.	<u>More frequent inspections + cleaning of storm drains</u>
11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.	
B. If so, describe.	
12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.	X
B. If so, describe.	<u>Borough has NO historical properties in Flood zone,</u>

Community Name Red Bank Borough

13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe. <u>Borough was applied for funding from NFDGP Shoreland protection for Bulkhead reconstruction.</u>	<input checked="" type="checkbox"/>
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.	<input type="checkbox"/>
15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

Community Name \_\_\_\_\_

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

*Please check all activities that your municipality is committing to undertake over the next five years.*

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	X
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	X
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	X
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	X
B. Enforce codes and standards beyond FEMA minimum requirements.	X
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	X
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	X
8. Revise capital or operating budgets to include a line item for mitigation project funding.	X
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	X
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	X
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	X
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	X
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	X
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	X
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

For this Plan Update, FEMA requires:

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- a description of plan integration activities that each jurisdiction expects to undertake over the course of the next planning cycle.

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- Targeted Plan Integration Activities for the Next Planning Cycle – Similarly, in the second component of this worksheet, we have outlined a series of plan integration activities for the next five-year planning cycle. Please document to FEMA the manner in which your community will commit to integrate the hazard mitigation plan into your local government operations from this point forward.

Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring to.

Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

Name: \_\_\_\_\_ **Michael L. Ticktin** \_\_\_\_\_

Title: \_\_\_\_\_ **Councilman/Flood Plain Coordinator** \_\_\_\_\_

Representing: \_\_\_\_\_ **Borough of Roosevelt** \_\_\_\_\_

Email and Phone: \_\_\_\_\_ **MTicktin@aol.com 609-947-0491** \_\_\_\_\_

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*  
**N/A- ROOSEVELT DID NOT PARTICIPATE IN THE INITIAL VERSION OF THE PLAN.**

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	
<p>2. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p>	
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below.</p> <p>4. There is no local building department. DCA enforces the Uniform Construction Code in Roosevelt</p>	
<p>5. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p>	<p>X</p>

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	
<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p>	
<p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p>	
<p>F. Check here if your community has joined the CRS since 2009.</p>	
<p>G. Check here if your community has dropped out of the CRS since 2009.</p>	
<p>6. A. Check here if your community has a local zoning ordinance.</p>	
<p>B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p> <p>We have no developable hazard areas.</p>	
<p>7. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.</p>	
<p>B. If so, describe.</p>	
<p>8. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.</p>	
<p>B. If so, describe.</p>	
<p>9. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.</p>	
<p>B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	
<p>10. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).</p>	<p>NA</p>
<p>B. If so, describe.</p>	

11. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently). B. If so, describe.	
12. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria. B. If so, describe.	
13. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards. B. If so, describe.	
14. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe.	
15. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.	
16. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	

## TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE

*Please check all activities that your municipality is committing to undertake over the next five years.*

1.	CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	
2.	A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	
	B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	X
3.	Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	
4.	A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	X
	B. Enforce codes and standards beyond FEMA minimum requirements.	
	C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X
5.	Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	
6.	Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	
7.	Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8.	Revise capital or operating budgets to include a line item for mitigation project funding.	
9.	Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	
10.	Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	
11.	Add hazard vulnerability to subdivision and site plan review criteria.	
12.	Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13.	Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14.	Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15.	Adopt (or continue to enforce) a local stormwater management plan/ordinance.	x
16.	Protect life and property in high hazard areas by limiting densities of new development.	
17.	Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18.	Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	
19.	Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	
20.	Implement hazard mitigation activities through existing plans and policies.	
21.	Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update Plan Integration Worksheet

For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

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- a description of plan integration activities that each jurisdiction expects to undertake over the course of the next planning cycle.

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Name: Thomas S Rogers

Title: Administrator Municipal Clerk

Representing: Rumson OEM

Email and Phone: trogers@rumsonnj.gov 732-842-3300

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	<p>X</p>
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below. Plan was discussed with Zoning Officer and Construction Official. We are now in the process of reviewing all our planning docs with a State DCA Grant Post Sandy.</p>	<p>X</p>
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	<p>X</p>
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. Construction Official is part of the Rumson OEM Committee and has confirmed that they follow the latest Construction Standards.</p>	<p>X</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p>	<p>X</p>

Community Name Borough of Rumson

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	
<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements</p>	
<p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS)</p>	
<p>F. Check here if your community has joined the CRS since 2009.</p>	
<p>G. Check here if your community has dropped out of the CRS since 2009.</p>	
<p>5. A. Check here if your community has a local zoning ordinance.          B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p>	<p>X</p>
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.          B. If so, describe.</p>	
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.          B. If so, describe. Department of Public Works now looks for trees and blocked storm drains as part of their daily work day.</p>	<p>X</p>
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.          B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	<p>X X</p>
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).          B. If so, describe.</p>	<p>NA</p>
<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and</p>	<p>X</p>

Community Name Borough of Rumson

cleaning debris from streams and ditches (i.e. more frequently). B. If so, describe. Now part of their daily job requirements to identify and report issues to the Foreman for scheduled maintenance.	
11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria. B. If so, describe. Stormwater and runoff implications with all site plans and subdivisions.	X
12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards. B. If so, describe.	
13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe. FEMA 404 and FEMA 406 Project Funding as well as NJ State DOT Annual Road Improvement Program	X
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe. <i>JACQUES COUSTEAU MARINE ESTUARINE RESEARCH UNIVERSITY</i>	X
15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	X X

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

*Please check all activities that your municipality is committing to undertake over the next five years.*

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	X
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	X
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	X
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	X
B. Enforce codes and standards beyond FEMA minimum requirements.	X
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	X
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	X
8. Revise capital or operating budgets to include a line item for mitigation project funding.	X
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	X
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	X
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	X
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	X
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	X
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	X
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### *Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

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**Name: Read Murphy**

**Title: OEM Coordinator**

**Representing: Borough of Sea Bright**

**Email and Phone [councilmanmurphy@gmail.com](mailto:councilmanmurphy@gmail.com) 908-489-6094**

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p>	
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	<p>x</p>
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below. We Added a flood plain ordinance that was past by council.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below. We amended the document to include required elevations to be 2 foot above BFE for building.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. Have had several talks with construction officials to inform them on what is going on.</p>	<p>x</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p>	<p>x</p>
<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption; check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below. Passed an ordinance to be 2 foot about BFE and had meetings with construction officials.</p>	<p>x</p>

<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p>	
<p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements. At this time we have only past our ordinance on raising two foot higher than BFE</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p>	
<p>F. Check here if your community has joined the CRS since 2009.</p>	
<p>G. Check here if your community has dropped out of the CRS since 2009.</p>	
<p>5. A. Check here if your community has a local zoning ordinance.                  B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p>	<p style="text-align: right;">x</p>
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.                  B. If so, describe. Again just raising 2 foot above BFE</p>	<p style="text-align: right;">x</p>
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.                  B. If so, describe. Our Zoning officer was appointed flood plain manger .</p>	<p style="text-align: right;">x</p>
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.                  B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).                  B. If so, describe.</p>	
<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).                  B. If so, describe.                  We have no ditches or streams in the borough but we are cleaning storm drains more often.</p>	
<p>11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.                  B. If so, describe.</p>	
<p>12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.</p>	

Community Name Sea Bright

B. If so, describe. N/A	
13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe. Yes, DCA, DEP and DOT Fema has put a team in place at the borough for Sandy related issues and we are learning from this group.	x
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe. The Bloustein School at Rutgers has assisted with potential planning and design, the Kennedy School at Harvard did a gap analysis and NJIT did a studio class about potential design with technology.	x
15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	x

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

*Please check all activities that your municipality is committing to undertake over the next five years.*

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	X
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	X
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	X
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	X
B. Enforce codes and standards beyond FEMA minimum requirements	X
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8. Revise capital or operating budgets to include a line item for mitigation project funding.	X
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	X
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	
11. Add hazard vulnerability to subdivision and site plan review criteria.	
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	X
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	<p>X</p>
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p>	
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	<p>X</p>
<p>D. If you checked box 2C, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below. Stormwater management plan element was added to the Master Plan, and does address flood mitigation efforts in the Borough.</p>	
<p>E. If you checked box 2C, please check here if a specific hazard mitigation element was added to the document, and describe in the space below. See above</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. <i>The Borough of Sea Girt is in weekly contact with the Borough's Construction Official (who oversees the issuance of construction permits), and confirm with him and his staff that all current minimum standards are being met.</i></p>	<p>X</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury).</p>	<p>X</p>

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p> <p>The administrator was in constant contact with the Borough engineer and planning board and local construction officials for enforcement of FEMA min requirements and seeing what can be added to that to ensure safety of the Borough. The Borough has a limited number of repetitively damaged properties</p>	<p>x</p>
<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p> <p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p> <p>F. Check here if your community has joined the CRS since 2009.</p> <p>G. Check here if your community has dropped out of the CRS since 2009.</p>	
<p>5. A. Check here if your community has a local zoning ordinance.</p> <p>B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p> <p>The Borough Administrator handled all correspondence with the local zoning board since 2008. The town does not undergo much new building and we have no open space. Zoning dealt with modifications or rebuilds to existing properties.</p>	<p>X</p> <p>X</p>
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.</p> <p>B. If so, describe. Stormwater management rules have been adopted and incorporated into plan review process.</p>	<p>x</p>
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.</p> <p>B. If so, describe. – current OEM and local engineer as well as the Borough Administrator have reviewed job descriptions and incorporated mitigation-related duties that will be completed during regularly scheduled tasks.</p>	<p>x</p>
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.</p> <p>Not yet but working on it due to mitigation grants applied for and planning for future mitigation efforts</p> <p>B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	<p>TBD</p>

Community Name Sea Girt Borough

<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).          B. If so, describe. – dune management to mitigate flooding in the borough and outflow pipe management</p>	<p>x</p>
<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).          B. If so, describe.          Sewer cleaning schedule increased; identified crews to remove debris from storm drains. Wreck Pond has been opened up by Spring Lake providing for outflow of water during periods of heavy rain that mitigates potential flooding from the Pond.</p>	<p>x</p>
<p>11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.          B. If so, describe.          Site plans must comply with stormwater management rules.</p>	<p>x</p>
<p>12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.          B. If so, describe.          Sea Girt Lighthouse is in the beachfront area – mitigation grants to prevent flooding from east will cover this</p>	<p>x</p>
<p>13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities.          B. If so, describe.          HMGP grants applied for as well as CAFRA and FEMA advisors for building and maintaining dunes</p>	<p>x</p>
<p>14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities.          B. If so, describe. Administrator in constant contact with advisors from Stevens Institute of technology and with Dr. Stewart Farrell of the Coastal Institute at Stockton College.</p>	<p>x</p>
<p>15. A. Check here if your community has a stormwater management plan.</p>	<p>X</p>

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

*Please check all activities that your municipality is committing to undertake over the next five years.*

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	X
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan. B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	X
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating). B. Enforce codes and standards beyond FEMA minimum requirements. C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	Tbd
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	X
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	X
8. Revise capital or operating budgets to include a line item for mitigation project funding.	X
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	X
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	TBD
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	X
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	X
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	X
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	X
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

For this Plan Update, FEMA requires:

- a summary of each jurisdiction's past progress in plan integration over the last planning cycle; and
- a description of plan integration activities that each jurisdiction expects to undertake over the course of the next planning cycle.

This worksheet has been set up, therefore, into two components with each portion focusing on one of the bullets above.

- Demonstration of Progress over the Last Planning Cycle – In the first component of this worksheet, we have reiterated the targeted plan integration activities that were included in the last version of the plan (Section 9, beginning on Page 9-4) in a tabular form, and are asking each community to describe their respective accomplishments since the plan was adopted five years ago.
- Targeted Plan Integration Activities for the Next Planning Cycle – Similarly, in the second component of this worksheet, we have outlined a series of plan integration activities for the next five-year planning cycle. Please document to FEMA the manner in which your community will commit to integrate the hazard mitigation plan into your local government operations from this point forward.

Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring to.

Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name: Jerzy Chojnacki**

**Title: OEM Coordinator**

**Representing: Shrewsbury Borough**

**Email and Phone: shrewsburyoem@yahoo.com 732 796-8331**

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below. <i>Master planning committee currently engaged in preparation of new master plan, which includes flood hazard mitigation initiatives.</i> Borough engineer as a representative of CPG is closely working with the planning committee.</p>	<p>✓</p>
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. <i>Construction Code Official currently enforcing current IBC. Borough engineer as a representative of the CPG is closely working with Code Officials coordinating IBC, Master Plan and impact to the town from natural hazards.</i></p>	<p>✓</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p>	<p>✓</p>
<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	

Community Name: Shrewsbury Borough

C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.	
D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.	
E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).	
F. Check here if your community has joined the CRS since 2009.	
G. Check here if your community has dropped out of the CRS since 2009.	
5. A. Check here if your community has a local zoning ordinance.	✓
B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.	
6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.	
B. If so, describe.	
7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.	
B. If so, describe.	
8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.	
B. Check here if capital or operating budgets already included this when the plan was first adopted.	
9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).	
B. If so, describe.	
10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).	✓
B. If so, describe. <i>DPW performs routine inspections of streams and requests Monmouth County Assistance as required. DPW routinely cleans storms drains and discharge points into streams. Illegally dumped items are retrieved and vegetation is cleared around bridges and discharge points.</i>	
11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.	
B. If so, describe.	
12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.	

Community Name: Shrewsbury Borough

B. If so, describe.	
13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe.	
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.	
15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	✓ ✓

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

*Please check all activities that your municipality is committing to undertake over the next five years.*

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	✓
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	✓
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	✓
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	✓
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	✓
B. Enforce codes and standards beyond FEMA minimum requirements	
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	
11. Add hazard vulnerability to subdivision and site plan review criteria.	
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	✓
16. Protect life and property in high hazard areas by limiting densities of new development.	✓
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	✓
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	✓
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	✓
20. Implement hazard mitigation activities through existing plans and policies.	✓
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	



**Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update**  
*Plan Integration Worksheet*

---

For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

For this Plan Update, FEMA requires:

- a summary of each jurisdiction's past progress in plan integration over the last planning cycle; and
- a description of plan integration activities that each jurisdiction expects to undertake over the course of the next planning cycle.

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- Targeted Plan Integration Activities for the Next Planning Cycle – Similarly, in the second component of this worksheet, we have outlined a series of plan integration activities for the next five-year planning cycle. Please document to FEMA the manner in which your community will commit to integrate the hazard mitigation plan into your local government operations from this point forward.

Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring too.

Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** \_\_\_\_\_

**Title:** \_\_\_\_\_

**Representing:** \_\_\_\_\_

**Email and Phone:** \_\_\_\_\_

Community Name \_\_\_\_\_

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?
2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.
B. Check here if your municipality does not have a master, general, or comprehensive plan.
C. Check here if your master, general or comprehensive was updated since 2008.
D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.
E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.
3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below.
4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)
B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.

Community Name \_\_\_\_\_

C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.
D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.
E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).
F. Check here if your community has joined the CRS since 2009.
G. Check here if your community has dropped out of the CRS since 2009.
5. A. Check here if your community has a local zoning ordinance.
B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.
6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.
B. If so, describe.
7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.
B. If so, describe.
8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.
B. Check here if capital or operating budgets already included this when the plan was first adopted.
9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).
B. If so, describe.
10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).
B. If so, describe.
11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.
B. If so, describe.
12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.
B. If so, describe.

Community Name \_\_\_\_\_

13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe.	
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.	
15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	

Community Name \_\_\_\_\_

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

*Please check all activities that your municipality is committing to undertake over the next five years.*

1.	CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.
2.	A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan. B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.
3.	Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).
4.	A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating). B. Enforce codes and standards beyond FEMA minimum requirements. C. Join (or continue to maintain participation in) the NFIP's Community Rating System.
5.	Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.
6.	Modify work plans, policies or procedures to include hazard mitigation concepts/activities.
7.	Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.
8.	Revise capital or operating budgets to include a line item for mitigation project funding.
9.	Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.
10.	Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.
11.	Add hazard vulnerability to subdivision and site plan review criteria.
12.	Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.
13.	Reach out to state agencies for assistance with natural hazard mitigation activities.
14.	Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.
15.	Adopt (or continue to enforce) a local stormwater management plan/ordinance.
16.	Protect life and property in high hazard areas by limiting densities of new development.
17.	Increase resilience by limiting the extension of public infrastructure in high hazard areas.
18.	Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.
19.	Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.
20.	Implement hazard mitigation activities through existing plans and policies.
21.	Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)

Community Name Borough of Spring Lake

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

Please check all activities that your municipality has undertaken over the last five years.

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	<p>X</p>
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.  <i>MEETING WAS HELD ON A REGULAR BASIS DURING THIS PERIOD</i></p>	<p>X</p>
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	<p>X</p>
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. <i>THE CONSTRUCTION OFFICIAL IS THE FLOOD PLAN MANAGER FOR THE BOROUGH + I COMMUNICATE WITH HIM ON THESE ISSUES</i></p>	<p>X</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p>	<p>X</p>
<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	

#3 (above) The construction official is the Flood plan manager for the Boro and I communicate with him on these issues.

# Borough of Spring Lake

Community Name \_\_\_\_\_

C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.	
D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.	
E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).	X
F. Check here if your community has joined the CRS since 2009.	
G. Check here if your community has dropped out of the CRS since 2009.	X
5. A. Check here if your community has a local zoning ordinance.	
B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.	
6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.	
B. If so, describe.	
7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.	
B. If so, describe.	
8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.	X
B. Check here if capital or operating budgets already included this when the plan was first adopted.	
9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).	
B. If so, describe.	
10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).	X
B. If so, describe.	
11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.	
B. If so, describe.	
12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.	
B. If so, describe.	

#13 (Below) Borough has worked with DEP to develop plan to reduce flooding at Wreck pond and lake Como.

# Borough of Spring Lake

Community Name \_\_\_\_\_

13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities.	X
B. If so, describe. BOROUGH HAS WORKED WITH DEP TO DEVELOP PLAN TO REDUCE FLOODING AT WRECK POINT	
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities.	X
B. If so, describe. BOROUGH HAS RECEIVED TECHNICAL ASSISTANCE FROM STOCKTON COLLEGE + STEVEN INSTITUTE	
15. A. Check here if your community has a stormwater management plan.	X
B. Check here if your community has a stormwater management ordinance.	X

Community Name Borough of Spring lake

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	X
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	X
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	X
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	X
B. Enforce codes and standards beyond FEMA minimum requirements.	X
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	X
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	X
8. Revise capital or operating budgets to include a line item for mitigation project funding.	X
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	X
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	X
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

For this Plan Update, FEMA requires:

- a summary of each jurisdiction's past progress in plan integration over the last planning cycle; and
- a description of plan integration activities that each jurisdiction expects to undertake over the course of the next planning cycle.

This worksheet has been set up, therefore, into two components with each portion focusing on one of the bullets above.

- Demonstration of Progress over the Last Planning Cycle – In the first component of this worksheet, we have reiterated the targeted plan integration activities that were included in the last version of the plan (Section 9, beginning on Page 9-4) in a tabular form, and are asking each community to describe their respective accomplishments since the plan was adopted five years ago.
- Targeted Plan Integration Activities for the Next Planning Cycle – Similarly, in the second component of this worksheet, we have outlined a series of plan integration activities for the next five-year planning cycle. Please document to FEMA the manner in which your community will commit to integrate the hazard mitigation plan into your local government operations from this point forward.

Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring to.

Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

Name: Joseph C. May

Title: Borough Engineer

Representing: Borough of Spring Lake Heights

Email and Phone: [jmay@springlakehts.com](mailto:jmay@springlakehts.com) 732-449-3500

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p>	
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	
<p>D. If you checked box 2C, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. The Borough has adopted and is enforcing the min. standards. The Borough Engineer has met with the Building Inspector to ensure that the minimum standards are enforced.</p>	<p>X</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury).</p>	<p>X</p>

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p> <p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p> <p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p> <p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p> <p>F. Check here if your community has joined the CRS since 2009.</p> <p>G. Check here if your community has dropped out of the CRS since 2009.</p> <p>5. A. Check here if your community has a local zoning ordinance.</p> <p>B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p>	<p>X</p>
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.</p> <p>B. If so, describe.</p>	
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.</p> <p>B. If so, describe.</p>	
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.</p> <p>B. Check here if capital or operating budgets already included this when the plan was first adopted.</p> <p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).</p> <p>B. If so, describe. Borough wide curfew</p> <p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and</p>	<p>X</p> <p>NA</p> <p>YES</p>

Community Name \_\_\_\_\_ Spring Lake Heights \_\_\_\_\_

<p>cleaning debris from streams and ditches (i.e., more frequently).                  B. If so, describe. Annually inspects all outfalls, storm water treatment devices, and conducts seasonal cleaning of all inlets. Boro is working to implement a NRCS stream cleaning grant for Wreck Pond Brook.</p>	
<p>11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.                  B. If so, describe. Board Engineer recommends against granting subdivision in FHA.</p>	<p>Yes</p>
<p>12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.                  B. If so, describe.</p>	<p>NO</p>
<p>13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities.                  B. If so, describe. Borough submitted LOI for Hazard Mitigation</p>	<p>Yes</p>
<p>14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities.                  B. If so, describe.</p>	
<p>15. A. Check here if your community has a stormwater management plan.                  B. Check here if your community has a stormwater management ordinance.</p>	<p>YES                  YES</p>

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	X
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	X
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	X
B. Enforce codes and standards beyond FEMA minimum requirements.	
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	X
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8. Revise capital or operating budgets to include a line item for mitigation project funding.	X
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	X
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	X
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	X
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

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**Name: David M. Marks, P.E., C.M.E.**

**Title: Borough Engineer**

**Representing: Borough of Tinton Falls**

**Email and Phone: [engineer@tintonfalls.com](mailto:engineer@tintonfalls.com) (732) 542-3400 x. 214**

Community Name \_\_\_\_\_

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.  <b>Flood Damage Prevention Ordinance adopted and distributed to Planning, Building, Zoning departments. Outreach from OEM to Department Heads to educate on hazard planning and prevention.</b></p>	
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	<p>X</p>
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below.  <b>Adoption and distribution of Flood Damage Prevention Ordinance. Utilization of most current Building and Fire Codes.</b></p>	<p>X</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p>	<p>X</p>

Community Name \_\_\_\_\_

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	
<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p>	
<p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p>	
<p>F. Check here if your community has joined the CRS since 2009.</p>	
<p>G. Check here if your community has dropped out of the CRS since 2009.</p>	
<p>5. A. Check here if your community has a local zoning ordinance.</p>	X
<p>B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p>	
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.</p>	X
<p>B. If so, describe. <b>The OEM has significantly overhauled and strengthened in recent years. Response during emergency situations has improved drastically. The Borough has made significant investments and commitments to equipment, policy updates, training, and personnel.</b></p>	
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.</p>	
<p>B. If so, describe.</p>	
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.</p>	X
<p>B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).</p>	
<p>B. If so, describe.</p>	



Community Name \_\_\_\_\_

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

*Please check all activities that your municipality is committing to undertake over the next five years.*

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	X
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	X
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	X
B. Enforce codes and standards beyond FEMA minimum requirements.	
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	X
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	X
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	X
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	X
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	X
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	X
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update

### Plan Integration Worksheet

---

For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

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Name: Ed Broberg

Title: Borough Engineer

Representing: Borough of Union Beach

Email and Phone: ebroberg@tandmassociates.com 732-671-6400

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	<p>Y</p>
<p>2. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below. <b>The Borough works with its engineers to ensure the planning documents for the Borough will include all related hazardous mitigation initiatives in the Borough.</b></p>	<p>Y</p>
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	<p>Y</p>
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	<p>Y</p>
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below. <b>Adopted new ABFEs and updated Ordinances.</b></p>	<p>Y</p>
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below. <b>Adopted new ABFEs and updated Ordinances.</b></p>	<p>Y</p>
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. <b>The Borough Engineer provide copies of the new ABFEs mapping to the building department and a draft ordinance that modified the minimum elevation required for substantially damaged properties and new constructions. The Borough adopted the new ABFEs heights and updated their Ordinances to reflect these new building requirements.</b></p>	<p>Y</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p>	<p>Y</p>

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	
<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p>	<p>Y</p>
<p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements. The Borough has been enforcing new construction and reconstruction standards including elevation standards. The Borough requires homeowner to elevate their home to the ABFEs which are advisory flooding maps and are stricter. In addition, the Borough requires two feet of free board where FEMA only requires one in AE zones.</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p>	<p>Y</p>
<p>F. Check here if your community has joined the CRS since 2009.</p>	
<p>G. Check here if your community has dropped out of the CRS since 2009.</p>	
<p>5. A. Check here if your community has a local zoning ordinance.          B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p> <p>The Borough of Union Beach is currently in the process of preparing a Strategic Recovery Planning Report. This report will evaluate all available planning documents in (i.e. master plans, zoning ordinances, hazard mitigation plan) for consistency regarding community resiliency. During this process, representatives from the engineer's office, the zoning office, planning board, and administrative offices and DPW staff will assist with us taking all documents for community resiliency and hazardous mitigation.</p>	<p>Y Y</p>
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.          B. If so, describe. The Borough Engineer provide copies of the new ABFEs mapping to the building department and a draft ordinance that modified the minimum elevation required for substantially damaged properties and new constructions. The Borough adopted the new ABFEs heights and updated their Ordinances to reflect these new building requirements.</p>	<p>Y</p>
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.</p>	

B. If so, describe.		
8.	A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding. B. Check here if capital or operating budgets already included this when the plan was first adopted.	
9.	A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable). B. If so, describe.	N/A
10.	A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently). B. If so, describe. They are inspected and cleaned every year.	Y
11.	A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria. B. If so, describe.	
12.	Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards. B. If so, describe.	
13.	Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe. <b>The Borough applied for funding for elevation of homes and road elevations.</b>	Y
14.	Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.	
15.	A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	Y Y

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

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2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan. B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating). B. Enforce codes and standards beyond FEMA minimum requirements. C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	Y Y Y
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	Y
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	
11. Add hazard vulnerability to subdivision and site plan review criteria.	Y
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	Y
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	
16. Protect life and property in high hazard areas by limiting densities of new development.	
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	Y
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	
20. Implement hazard mitigation activities through existing plans and policies.	Y
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	Y



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

For this Plan Update, FEMA requires:

- a summary of each jurisdiction's past progress in plan integration over the last planning cycle; and
- a description of plan integration activities that each jurisdiction expects to undertake over the course of the next planning cycle.

This worksheet has been set up, therefore, into two components with each portion focusing on one of the bullets above.

- Demonstration of Progress over the Last Planning Cycle – In the first component of this worksheet, we have reiterated the targeted plan integration activities that were included in the last version of the plan (Section 9, beginning on Page 9-4) in a tabular form, and are asking each community to describe their respective accomplishments since the plan was adopted five years ago.
- Targeted Plan Integration Activities for the Next Planning Cycle – Similarly, in the second component of this worksheet, we have outlined a series of plan integration activities for the next five-year planning cycle. Please document to FEMA the manner in which your community will commit to integrate the hazard mitigation plan into your local government operations from this point forward.

Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring to.

Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com) by June 13, 2013. If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name: MICHAEL CONROY**

**Title: EMERGENCY MANAGEMENT COORDINATOR**

**Representing: UPPER FREEHOLD TOWNSHIP**

**Email and Phone: (609) 548 – 7191 [mconroy@uftnj.com](mailto:mconroy@uftnj.com)**

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	<p>X</p>
<p>2. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p> <p>A MEETING BETWEEN THE OFFICE OF EMERGENCY MANAGEMENT AND REPRESENTATIVE(S) OCCURRED WITH THE PRECEDING EMERGENCY MANAGEMENT COORDINATOR. THE CURRENT EMERGENCY MANAGEMENT COORDINATOR WILL MEET WITH THE TOWNSHIP ENGINEER, PLANNING AND ZONING BOARDS AND THE BUILDING DEPARTMENT.</p>	<p>X</p>
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	<p>X</p>
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p> <p>UPPER FREEHOLD TOWNSHIP ADOPTED THE NJ STATE PROTOTYPE PLAN IN 2009 WITHOUT AMENDMENTS.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p> <p>UPPER FREEHOLD TOWNSHIP DID NOT IDENTIFY OR ADDRESS ANY SPECIFIC HAZARD MITIGATION ELEMENT.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below.</p> <p>IN UPPER FREEHOLD TOWNSHIP, THE OFFICE OF EMERGENCY MANAGEMENT WORKS WITH THE BUILDING DEPARTMENT AND THE PLANNING AND ZONING BOARD TO REVIEW MINIMUM STANDARDS IN THE CURRENT STATE-ADOPTED IBC (NJ EDITION).</p>	<p>X</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p>	<p>X</p>

<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	
<p>NO ADDITIONAL ENFORCEMENT BEYOND THE FEMA MINIMUM REQUIREMENTS WERE DETERMINED TO BE NECESSARY IN UPPER FREEHOLD TOWNSHIP.</p>	
<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p>	
<p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p>	
<p>NOT APPLICABLE</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p>	
<p>F. Check here if your community has joined the CRS since 2009.</p>	
<p>G. Check here if your community has dropped out of the CRS since 2009.</p>	
<p>5. A. Check here if your community has a local zoning ordinance.          B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p>	<p>X</p>
<p>ZONING IN UPPER FREEHOLD TOWNSHIP PROHIBITS DEVELOPMENT IN HAZARD AREAS.</p>	
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.          B. If so, describe.</p>	
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.          B. If so, describe.</p>	
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.          B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).          B. If so, describe.</p>	
<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).          B. If so, describe.</p>	

11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria. B. If so, describe.	
12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards. B. If so, describe.	
13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities. B. If so, describe.	
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.	
15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	X X

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	X
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan. B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan. 3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating). B. Enforce codes and standards beyond FEMA minimum requirements. C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	X
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	
11. Add hazard vulnerability to subdivision and site plan review criteria.	X
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	X
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	
16. Protect life and property in high hazard areas by limiting densities of new development.	X
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	X
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

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**Name:** Joseph Wilbert

**Title:** Deputy Coordinator

**Representing:** Township of Wall

**Email and Phone:** [jwilbert@wallpolice.org](mailto:jwilbert@wallpolice.org) 732-449-4500

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	X
<p>2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below. Wall OEM continues to use an open line of communication. In addition, Wall OEM constantly forward's information to our community's department heads and encourages them to assist with the update process.</p>	X
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	X
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	X
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. Coordination via emails and phone calls occurred between the CPG and Paul Rambenda (Building Inspector) and Matt Zahorsky (Township Engineer).</p>	X
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury)</p>	X
<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	
<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p>	

D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.	
E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).	
F. Check here if your community has joined the CRS since 2009.	
G. Check here if your community has dropped out of the CRS since 2009.	
5. A. Check here if your community has a local zoning ordinance.	X
B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below. Wall OEM continues to forward information from Federal, State and County to our local zoning board partners.	x
6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.	
B. If so, describe.	
7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.	
B. If so, describe.	
8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.	
B. Check here if capital or operating budgets already included this when the plan was first adopted.	
9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable). NA	
B. If so, describe.	
10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).	
B. If so, describe.	
11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.	
B. If so, describe.	
12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.	
B. If so, describe.	
13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation activities.	

Community Name: Township of Wall

B. If so, describe.	
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities. B. If so, describe.	
15. A. Check here if your community has a stormwater management plan. B. Check here if your community has a stormwater management ordinance.	X X

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	X
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	X
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	X
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating).	
B. Enforce codes and standards beyond FEMA minimum requirements.	
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	
11. Add hazard vulnerability to subdivision and site plan review criteria.	
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	X
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	
16. Protect life and property in high hazard areas by limiting densities of new development.	
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update *Plan Integration Worksheet*

---

For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

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Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring to.

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**Name:** Paul Habermann

**Title:** OEM Coordinator

**Representing:** West Long Branch

**Email and Phone:** phanermann@westlongbranch.org 732-229-5000

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

<p>1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?</p>	
<p>2. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.</p>	
<p>B. Check here if your municipality does not have a master, general, or comprehensive plan.</p>	
<p>C. Check here if your master, general or comprehensive was updated since 2008.</p>	<p>X</p>
<p>D. If you checked box 2D, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.</p>	
<p>E. If you checked box 2D, please check here if a specific hazard mitigation element was added to the document, and describe in the space below. The local planning board to review and approve all zoning and land usage.</p>	
<p>3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC (NJ edition). Please describe your coordination efforts in the space below. Predecessor coordinated with local building dept. and planning board to ensure compliance with State Uniform Construction Codes.</p>	<p>X</p>
<p>4. A. Check here if your community participates in FEMA's National Flood Insurance Program (this is true for all except the Borough of Freehold and Township of Shrewsbury).</p>	
<p>B. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.</p>	
<p>C. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.</p>	
<p>D. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.</p>	
<p>Enforcement is based on code regulations.</p>	
<p>E. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).</p>	
<p>F. Check here if your community has joined the CRS since 2009.</p>	
<p>G. Check here if your community has dropped out of the CRS since 2009.</p>	

<p>5. A. Check here if your community has a local zoning ordinance.                  B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.</p>	<p>X</p>
<p>6. A. Check here if any work plans, policies or procedures were changed to include hazard mitigation concepts/activities.                  B. If so, describe The Borough contracts with an engineering firm to review building and site plan designs during the review process to ensure proper compliance with uniform construction codes and adequate drainage specifications.</p>	<p>X</p>
<p>7. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation.                  B. If so, describe.</p>	
<p>8. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding.                  B. Check here if capital or operating budgets already included this when the plan was first adopted.</p>	
<p>9. A. Check here if your governing body or local executive issued any directives to require departments/agencies to carry out certain hazard mitigation activities (if your jurisdiction does not have this authority, say 'NA' for Not Applicable).                  B. If so, describe. Storm water management plan</p>	<p>X</p>
<p>10. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently).                  B. If so, describe. As a matter of daily routine practices, DPW workers visually inspect drainage points. The results are reported back to the Superintendent of DPW, who then initiates the appropriate response for proper cleaning and or repairs.</p>	<p>X</p>
<p>11. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria.                  B. If so, describe. The Borough's engineering firm works with the planning board to complete a comprehensive review of all site plans, ensuring compliance with state uniform construction codes.</p>	<p>X</p>
<p>12. Check here if inventories of historic sites in hazard areas in your community have been performed to identify where special treatment may be needed to protect them from specific natural hazards.                  B. If so, describe. N/A</p>	
<p>13. Check here if your community has reached out to state agencies for assistance with natural hazard mitigation</p>	<p>X</p>

Community Name \_\_\_\_\_ West Long Branch

activities.	
B. If so, describe. N.J.D.O.T. – To clear storm drains on Hwy 36, west of Hwy 71.	
14. Check here if your community has reached out to colleges and universities for technical assistance with natural hazard mitigation activities.	X
B. If so, describe. “Urban Coast Institute” at Monmouth University.	
15. A. Check here if your community has a stormwater management plan.	X
B. Check here if your community has a stormwater management ordinance.	X

**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

Please check all activities that your municipality is committing to undertake over the next five years.

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan. B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	X
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC (NJ edition).	X
4. A. Maintain community participation in FEMA's National Flood Insurance Program (or join the NFIP, if you are not currently participating). B. Enforce codes and standards beyond FEMA minimum requirements. C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	X
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	X
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	X
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	X
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X

## APPENDIX 1.9 – WORKSHEET 7: ACTION WORKSHEETS

**Note:**

Several jurisdictional action items identified in this appendix list “severe storms” as a hazard addressed; however, that doesn’t correspond to one of the hazards profiled in Section 3A. Please note that severe storms, by definition, are a broad category event-type covering a range of atmospheric hazards identified in this plan (specifically: extreme temperatures, extreme wind, hailstorm, hurricane and tropical storm, lightning, nor’easter, tornado, and winter storm).

**Monmouth County  
Community Rating System Program**

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Monmouth County</i>
<b>Community action number</b>	<i>1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Hurricane &amp; Tropical Storms, Nor'easter, Coastal Erosion, Flood, Storm Surge, Wave Action</i>
<b>Risk finding</b>	<i>The CRS ranking program, which is run by FEMA through the National Flood Insurance Program (NFIP), scores communities on their effectiveness in dealing with flood plain management and development. Towns that take action steps to increase their resiliency to future storm events can help residents and businesses increase their eligibility for policy holder discounts. The program differentiates amongst ten classes. Communities enter at Class 10, and then as additional activities undertaken, they accumulate points toward moving up into the next higher class and achieving an associated decrease in insurance premiums for policyholders in their jurisdiction. Currently there are only eight Monmouth County towns that are part of the CRS program. Many communities in Monmouth County lack the resources to undertake the more technical aspects of the program in-house. In turn, many communities have either not accessed the program at all, or have entered at only the lowest levels. Many homeowners and businesses in Monmouth County may see an increase in their flood insurance premiums as the new FEMA Flood Maps are adopted.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Local planning and regulations</i>
<b>Action type</b>	<i>CRS- NFIP Community Rating System (CRS) Community Engagement and Participation</i>
<b>Action description</b>	<i>County to provide technical and professional assistance to local municipalities for their engagement and advancement in the National Flood Insurance Program's (NFIP) Community Rating System (CRS). Hazard mitigation planning, community outreach, public information, flood protection information, mapping and regulations</i>
<b>Existing, future &amp;/or NA</b>	<i>Future and existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Improve municipal mitigation activities that result in an increase the number of communities in Monmouth County that participate in the CRS program; Increase the CRS rankings of those communities that already participate in the CRS program; improve public awareness and knowledge of flood prevention and mitigation activities. NFIP participating municipalities are eligible for CRS assistance through Monmouth County. Policy holders (residential and business) in CRS communities benefit from better resiliency and lower insurance premiums; towns also benefit from reduced premiums on their flood prone assets. As more and more people in the County become aware of the program and undertake smaller scale mitigation activities, losses will be avoided during large and small events alike. While the dollar losses avoided are unquantifiable, losses avoided are estimated to be well in excess of project costs.</i>
<b>Cost estimate</b>	<i>\$50,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>NFIP participating municipalities are eligible for CRS assistance through Monmouth County. Policy holders (residential and business) in CRS communities benefit from better resiliency and lower insurance premiums; towns also benefit from reduced premiums on their flood prone assets. This action is likely to be cost effective, with unquantifiable benefits estimated to be well in excess of project costs.</i>
<b>Technical</b>	<i>This program is technically feasible including the production of public information material for distribution, outreach meetings, website and document maintenance; ordinance and master plan preparation assistance; GIS mapping and land use analysis;</i>
<b>Political</b>	<i>The CRS program has been formalized by the Monmouth County Board of Chosen Freeholders; 15 local municipalities are either current participants in CRS or have taken actions to implement CRS. Included in the County CEDS and upcoming Master Plan</i>
<b>Legal</b>	<i>No known legal impediments</i>
<b>Environmental</b>	<i>No known negative environmental impacts</i>
<b>Social</b>	<i>Anyone living in or conducting business in a flood prone area of a CRS community may benefit directly from this type of assistance; those outside flood prone areas in a town benefit from overall improved community resiliency, minimized storm impacts, lower cleanup/repair/replacement costs over time.</i>
<b>Administrative capability</b>	<i>Monmouth County has the staff to assist but requires additional training and expertise on some CRS and floodplain subject matters</i>
<b>Local champion</b>	<i>Monmouth County Division of Planning and Office of Emergency Management</i>
<b>Other community objectives</b>	<i>Integrate mitigation activities and practices into county and local master plans, improve public awareness and involvement in mitigation activities and flood preparedness</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Participation in the NFIP Community Rating System (CRS)</i>
<b>Responsible party</b>	<i>Joe Barris, PP, AICP and Margaret Murnane Brooks</i>
<b>Potential funding sources</b>	<i>Dedicated staff time, state and federal resiliency grants</i>
<b>Time line</b>	<i>Five year-long term effort</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>This is a new action since the last HMP. The county began developing a CRS user program in late 2013 and is looking to expand assistance to our municipal partners. Progress is ongoing.</i>

**Monmouth County  
Floodplain Management Capacity and Certification**

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Monmouth County</i>
<b>Community action number</b>	<i>2</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Hurricane &amp; Tropical Storms, Nor'easter, Coastal Erosion, Flood, Storm Surge, Wave Action</i>
<b>Risk finding</b>	<i>All communities in Monmouth County participate in FEMA's National Flood Insurance Program. Many communities and residents suffer from flooding events on a regular basis, and incur significant damages and costs associated with preparation, response, and recovery from these events. There also tends to be a disconnect between local master plans and floodplain management issues.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Local planning and regulations</i>
<b>Action type</b>	<i>Support local floodplain management planning</i>
<b>Action description</b>	<i>Assist municipalities in identifying and executing floodplain management activities that improve flood hazard mitigation, community resiliency and recovery from storm events. Expand understanding, capacity, and expertise in Floodplain Management. Training and certification - Monmouth County staff members would welcome more advanced training and certifications in areas such as floodplain management strategies and land use development in the SFHA that would be necessary to provide resource support to reduce these costs and bridge the planning gap. This action benefits multiple municipal jurisdictions in Monmouth County by providing certified staff to assist with local floodplain management strategies including ordinance preparation master plans, and outreach.</i>
<b>Existing, future &amp;/or NA</b>	<i>Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Losses avoided by a project of this nature are unquantifiable, but are generally considered to be well in excess of project costs.</i>
<b>Cost estimate</b>	<i>\$25,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This action is estimated to be cost effective, with unquantifiable losses avoided considered to be well in excess of project costs.</i>
<b>Technical</b>	<i>This program is technically feasible as there are numerous staff members with educational backgrounds that support this type of activity including degrees in planning, environmental science, environmental policy, engineering.</i>
<b>Political</b>	<i>This activity supports advancement of the County's CRS program which has received support from County officials.</i>
<b>Legal</b>	<i>No known legal impediments</i>
<b>Environmental</b>	<i>No known negative environmental impacts</i>
<b>Social</b>	<i>Communities benefit from having certified experts to call upon at the regional level to assist in floodplain management and reducing flood risk.</i>
<b>Administrative capability</b>	<i>Monmouth County has the staff to assist but requires additional training and expertise on some CRS and floodplain subject matters</i>
<b>Local champion</b>	<i>Monmouth County Division of Planning and Office of Emergency Management</i>
<b>Other community objectives</b>	<i>Better integration of floodplain management issues and recommendations into county and local master plans as well as local ordinances. This effort improves County effectiveness to support efforts in the CRS program.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>Master Plan and ordinances</i>
<b>Responsible party</b>	<i>Joe Barris, PP, AICP and Margaret Murnane Brooks</i>
<b>Potential funding sources</b>	<i>Dedicated staff time, state and federal grants</i>
<b>Time line</b>	<i>Five year-long term effort</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>This is a new recommended action since the last HMP.</i>

**Monmouth County**  
**GIS Enhancements for Mitigation and Risk Assessment**

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Monmouth County</i>
<b>Community action number</b>	<i>3</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Hurricane &amp; Tropical Storms, Nor'easter, Coastal Erosion, Flood, Storm Surge, Wave Action</i>
<b>Risk finding</b>	<i>Many local officials in Monmouth County lack direct access to mapping services (i.e., GIS). This creates a gap in their full understanding of natural hazards in their communities, significant costs are incurred each year for hazard response, recovery, and damage repair. Lack of access to mapping services such as GIS creates a situation in some communities where mitigation project development is sometimes hindered, and public education/warning programs are not as efficient/targeted as they could be.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Education and awareness programs</i>
<b>Action type</b>	<i>Increase awareness of flood risk</i>
<b>Action description</b>	<i>Many municipalities rely on GIS assistance from Monmouth County. This system can be improved to provide municipal access with online services. This requires new software and/or software licenses, hardware and equipment, data updates and upgrades as well as investments in our existing technology infrastructure. This system would also allow the public to access GIS information and customize maps showing risk to their property and community and ties back to CRS mapping requirements as well as information used in the development of local master plans.Planning, hazard response, community outreach, public information, flood information, mapping, municipal training, CRS Support. Support development of interactive, online mapping services for public use, provide municipalities with technical assistance and training, improve in-house GIS system network, provide mapping and analysis services to CRS engaged communities, enhance information assimilation and distribution.</i>
<b>Existing, future &amp;/or NA</b>	<i>Future and existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The County, 53 municipalities, and the public would benefit from having easy access to customized online mapping to help evaluate and understand community risk. Having more direct access to mapping services tools could facilitate local communities to guide development away from hazard areas, improve public education/warning for their residents in hazard areas, and enhance their mitigation project development. Improve county and local government capacity in the identification and analysis of flood risk. Provide an improved user interface for officials and the public to review and analyze risk in their community. Mapping and analysis can be used in the development of community master plans without requiring extensive GIS knowledge or technology for end users. Losses avoided are unquantifiable for a project of this nature; however, they are generally expected to be well in excess of the \$100k project costs.</i>
<b>Cost estimate</b>	<i>\$100,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is expected to be cost effective, with benefits expected to be well in excess of the \$100,000 project costs.</i>
<b>Technical</b>	<i>This program is technically feasible including the development of online mapping services, providing technical outreach assistance, and map assistance with CRS program requirements.</i>
<b>Political</b>	<i>A GIS program and CRS program including is available to municipalities through the County. This would enhance existing capabilities.</i>
<b>Legal</b>	<i>No known legal impediments</i>
<b>Environmental</b>	<i>No known negative environmental impacts</i>
<b>Social</b>	<i>Communities and the public would benefit from risk awareness and analysis. Communities could include mapping and modeling their community master plans, land use studies, environmental resources inventories, etc.</i>
<b>Administrative capability</b>	<i>Monmouth County has the staff to assist but requires additional training and GIS capabilities.</i>
<b>Local champion</b>	<i>Monmouth County Division of Planning</i>
<b>Other community objectives</b>	<i>Risk identification and analysis, community planning, public information and awareness, remote access to information, asset inventory, impact modeling</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Monmouth County GIS Program</i>
<b>Responsible party</b>	<i>Monmouth County GIS Supervisor</i>
<b>Potential funding sources</b>	<i>Dedicated staff time, state and federal grants</i>
<b>Time line</b>	<i>Five year-long term effort</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>This is a new action since the last HMP. The county constantly improves upon its GIS capabilities and information delivery.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>County of Monmouth</i>
<b>Community action number</b>	4
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Severe Storm, Storm Surge, Coastal Erosion, Wave Action, Landslides, Hurricanes and Tropical Storms, Nor'easters</i>
<b>Risk finding</b>	<i>Within Hartshorne Woods Park (Middletown) there are two unique sites; Claypit Creek and Portland Place. The sites are protected by coastal river-edge bluffs which were severely eroded during the Superstorm Sandy event. Both sites offer passive recreation activities for County residents and have a south-eastern orientation steep bluff, which received the most direct exposure of winds, flooding and wave action from the storm.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Protect critical facilities, Protect and restore natural buffers, Stabilize erosion hazard area.</i>
<b>Action type</b>	<i>Slope stabilization, Living shoreline restoration.</i>
<b>Action description</b>	<i>This proposal will serve to reestablish, restore and stabilize the eroded bluff and establish a living shoreline at the river edge to further provide protection of the slope to future storm events as well as provide and enhance habitat for fish and wildlife.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing &amp; Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Proposed slope restoration will protect a nearby historic structure that is listed on the National Historic Register at one site and at the other upland recreational facilities will be protected, and will enhance wildlife and fish habitats. Losses avoided by implementing this action are estimated to be approximately \$10 million.</i>
<b>Cost estimate</b>	<i>\$700,000 design, permit fees and implementation</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits on the order of \$10 million and costs of only \$700k.</i>
<b>Technical</b>	<i>Technically feasible by proven methods of river coastal restoration and case studies.</i>
<b>Political</b>	<i>No political opposition is known. Previous support by other conservation organizations was obtained.</i>
<b>Legal</b>	<i>No legal obstacles</i>
<b>Environmental</b>	<i>Must conform to NJDEP and US Army Corps of Engineers permitting issues.</i>
<b>Social</b>	<i>Recreational facilities provide benefits for a wide age and ability cross section of the public. Natural resources are protected for the public good.</i>
<b>Administrative capability</b>	<i>The County of Monmouth has the personnel and administrative capabilities to begin planning and permitting for such a project. Additional specialty consultants will be hired on an as needed basis.</i>
<b>Local champion</b>	<i>County of Monmouth, NJDEP</i>
<b>Other community objectives</b>	<i>Protects existing recreational features or public natural areas adjacent to project sites.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>NJ Municipal Land Use Law, NJDEP Permitting</i>
<b>Responsible party</b>	<i>Monmouth County Park System</i>
<b>Potential funding sources</b>	<i>FEMA, Capital Sources, NJDEP Green Acres/Blue Acres, NOAA, non-profits land conservation organizations.</i>
<b>Time line</b>	<i>1 year design/permitting, 1 year construction.</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New Action proposed in 2014</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>County of Monmouth</i>
<b>Community action number</b>	5
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Floods, Severe Storm, Storm Surge, Hurricanes and Tropical Storms, Nor'easters, Wave Action</i>
<b>Risk finding</b>	<i>The County Park System acquires land for open space preservation, public park &amp; recreation purposes and natural resources conservation. Some of the properties that are identified for acquisition are ones that are subject to flooding, winter storms or associated storm surges. These properties may be located in coastal zones or located along stream and river corridors throughout the county. When many properties along a watercourse are acquired, they form a protected greenway along the stream or river. By purchasing these properties, any buildings located in the flood zone are removed and the land is restored to a natural condition. Protected lands adjacent to coastal zones and river courses helps to reduce regional flooding by not increasing impervious cover and also allows natural systems of forests and marshes to mitigate some of the effects of flooding.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Removal of Structures in Flood Hazard Area, Natural Resource Protection</i>
<b>Action type</b>	<i>Acquisition of flood prone properties and coastal properties subject to winter storms and storm surge.</i>
<b>Action description</b>	<i>The Monmouth County Park System will continue to acquire properties within the project areas designated in the Monmouth County Open Space Plan (2008) to create a county-wide public open space system that will help meet park and recreation needs and conserve vital natural resources. Properties subject to flooding, severe winter weather and associated storm surges are considered for purchase to meet the goals of the Monmouth County Open Space Plan. By purchasing these properties, any buildings located in the flood zone are removed and the land is restored to a natural condition.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Removes or reduces structures subject to flooding. This is an ongoing program; no particular properties are identified at this time. However, the sites that would be good candidates for this program would be highly floodprone and would be purchased where their historic flood losses have been significant enough to justify the cost of the property.</i>
<b>Cost estimate</b>	<i>Ongoing purchase program that is subject to real estate market conditions.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Cost effective as the program eliminates flood prone structures while preserving natural resources and providing recreational opportunities for the public.</i>
<b>Technical</b>	<i>Proven technique to reduce flooding and the elimination of flood prone structures.</i>
<b>Political</b>	<i>This is a continuing program that has always had favorable support since its inception.</i>
<b>Legal</b>	<i>No legal obstacles</i>
<b>Environmental</b>	<i>Program provides for the protection of natural resources from development.</i>
<b>Social</b>	<i>Recreational facilities provide benefits for a wide age and ability cross section of the public. Natural resources are protected for the public good.</i>
<b>Administrative capability</b>	<i>The County of Monmouth has the personnel and administrative capabilities to continue in the purchasing properties for Open Space Conservation and Recreational needs.</i>
<b>Local champion</b>	<i>County of Monmouth</i>
<b>Other community objectives</b>	<i>Provides additional recreational opportunities and land conservation. Open space preservation. (all in addition to flood mitigation and natural resources protection)</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Monmouth County Open Space Plan (2008)</i>
<b>Responsible party</b>	<i>Monmouth County Park System</i>
<b>Potential funding sources</b>	<i>FEMA, Capital Sources, NJDEP Green Acres/Blue Acres, non-profits land conservation organizations.</i>
<b>Time line</b>	<i>ongoing</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Amended action from previous Worksheet 5</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>County of Monmouth</i>
Community action number	6
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Coastal Erosion, Storm Surge, Wave Action, Landslide, Hurricanes and Tropical Storms, Nor'easters, Flooding</i>
Risk finding	<i>Fisherman's Cove Conservation Area, Seven Presidents Oceanfront Park, Henry Hudson Trail - Popamora Point, Bayshore Waterfront Park have all experience some coastal dunes loss, erosion of coastal zone open space real estate, sedimentation of adjacent channels, loss of protective features for adjacent private properties.</i>
<b>Describing the Action</b>	
Action category	<i>Structural Project, Natural Resource Protection</i>
Action type	<i>Stabilize slopes, establish dunes, plant native coastal vegetation.</i>
Action description	<i>Regrading and/or sand fencing to establish dune topography. Vegetation management to establish native coastal vegetation adapted to coastal hazard and slopes.</i>
Existing, future &/or NA	<i>Existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Loss of natural systems, dunes &amp; coastal zone real estate. Losses avoided are estimated to be roughly \$15 million. (Fisherman's Cove, \$3 million; Seven Presidents Oceanfront Park, \$6 million; Henry Hudson Trail - Popamora Point, \$2 million; Bayshore Waterfront Park \$4 million)</i>
Cost estimate	<i>Fisherman's Cove \$500,000, Seven Presidents \$100,000, Popamora Point \$150,000, Bayshore Waterfront Park \$650,000 <b>TOTAL \$1.4 Million</b></i>
Cost effectiveness (i.e., benefit/cost)	<i>Cost effective as benefits are projected to be in excess of project costs. The program enhances protective features for adjacent private properties under storm conditions while preserving natural resources and providing recreational opportunities for the public.</i>
Technical	<i>Technically feasible, Seven Presidents Oceanfront Park and Bayshore Waterfront Park have constructed dune systems.</i>
Political	<i>Political and popular support.</i>
Legal	<i>County owned property, permitable actions.</i>
Environmental	<i>No impacts, compliant with Land-Use regulations. Carry permits already in some cases.</i>
Social	<i>No specific populations affected. No permanent disruptions to communities.</i>
Administrative capability	<i>The County of Monmouth has the personnel and administrative capabilities to plan and coordinate implementation for such a project.</i>
Local champion	<i>County of Monmouth, Borough of Atlantic Highlands, Manasquan Borough, Borough of Long Branch and Middletown Township .</i>
Other community objectives	<i>Provides quality open space and access to waterfront.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Structural Project, Natural Resource Protection</i>
Responsible party	<i>Monmouth County Park System</i>
Potential funding sources	<i>US Fish &amp; Wildlife Foundation, NOAA, FEMA, HRERP</i>
Time line	<i>1 year Planning, Permitting, Bid Contract 2 year implementation</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action proposed in 2014</i>

## Action Worksheet

Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>County of Monmouth</i>
Community action number	7

### Assessing the Risk

Hazard(s) addressed	<i>Flooding, Hurricanes and Tropical Storms, Nor'easters</i>
Risk finding	<i>Pine Brook (Pine Brook Golf Course, Manalapan) and Ramanessin Brook (Holmdel Park, Holmdel) stream bank stabilization, Manasquan River (Turkey Swamp Park, Freehold) floodplain restoration. The Manasquan River has been increasingly more flood prone and suffers potable water quality issues related to increased watershed development and past stream channel straightening impacts.</i>

### Describing the Action

Action category	<i>Construct Flood Control Measures, Restore Natural Flood Mitigation Features</i>
Action type	<i>Bank stabilization, Floodplain restoration.</i>
Action description	<i>Installation of stream bank stabilization techniques throughout the streams in Ramanessin Brook and Pine Brook. Manasquan River floodplain study and restoration. A proposal has been in the planning phase for many years to re-introduce stream form and function in the upper reaches of the watershed where extensive straightening occurred in the past. This will result in more stream stability and improved water quality with improve stream function.</i>
Existing, future &/or NA	<i>Existing &amp; Future</i>

### Evaluating the Action

Losses avoided (i.e., benefits)	<i>Potable water quality degradation. Infrastructure (bridges, roadways, real estate) damages from flood event. Stream downcutting reduced, recreational use preserved. Not only does the proposed restoration serve to stabilize the immediate area of a current recreational facility or protected natural area, it also helps to lessen flooding and improve water quality for the watershed downstream from proposed sites. Flood losses avoided by the project are estimated to be on the order of \$30 million, plus additional unquantifiable benefits associated with water quality and recreation.</i>
Cost estimate	<i>\$2.3 million design and implementation</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits on the order of \$30 million and costs on the order of \$2.3 million.</i>
Technical	<i>Technically feasible by proven methods of stream and river restoration case studies.</i>
Political	<i>No political opposition is known. Previous support by other conservation organizations was obtained.</i>
Legal	<i>Proposal utilizes existing public property under the stewardship of the County.</i>
Environmental	<i>No impacts. With proper review and design is permissible.</i>
Social	<i>No specific populations affected. No permanent disruptions to communities.</i>
Administrative capability	<i>The County of Monmouth has the personnel and administrative capabilities to begin planning and studies for such a project and to determine or identify additional partnerships and funding needs. Additional specialty consultants will be hired on an as needed basis.</i>
Local champion	<i>County of Monmouth</i>
Other community objectives	<i>Protects existing recreational features or public natural areas adjacent to project sites.</i>

### Implementing the Action

Priority	<i>High</i>
Local planning mechanism	<i>NJDEP permitting</i>
Responsible party	<i>Monmouth County Park System</i>
Potential funding sources	<i>FEMA, Capital Bond</i>
Time line	<i>1 year design/permitting, 1 year construction and ongoing for future additional restorations.</i>

### Reporting on Progress

Action progress status	<i>New Action proposed in 2014</i>
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<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>County of Monmouth</i>
Community action number	<i>8</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Wildfire</i>
Risk finding	<i>Certain wild-lands and urban interface areas pose a risk to losses by fire. Fisherman's Cove Conservation Area (Manasquan Boro), Turkey Swamp Park (Freehold Township) and Bayshore Waterfront Park (Middletown Township) are all park areas that have been subject to wildfires which have potential to destroy adjacent residential properties as well as park building infrastructure.</i>
<b>Describing the Action</b>	
Action category	<i>Urban Fire Reduction</i>
Action type	<i>Fire hazard reduction</i>
Action description	<i>Prescribed burn, mechanical thinning at: Fisherman's Cove Conservation Area (Manasquan Boro), Turkey Swamp Park (Freehold Township) and Bayshore Waterfront Park (Middletown Township)</i>
Existing, future &/or NA	<i>Existing, Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Losses avoided are estimated to be well above \$25 million, considering both residential property and park building infrastructure.</i>
Cost estimate	<i>Turkey Swamp \$15,000, Bayshore \$20,000, Fisherman's Cove \$10,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>The cost of this ongoing project is highly cost effective when compared to the cost of replacing even one structure as well as providing public safety. Losses avoided are estimated to be \$25 million as compared to costs of only \$45,000.</i>
Technical	<i>Technically feasible.</i>
Political	<i>Public support moderate, local authorities high support.</i>
Legal	<i>Proposal utilizes existing public property under the stewardship of the County.</i>
Environmental	<i>No impacts. With proper review and design is permissible.</i>
Social	<i>No specific populations affected. No permanent disruptions to communities.</i>
Administrative capability	<i>The County of Monmouth has the personnel and administrative capabilities to implement the Community Wildfire Protection Plans prepared for Turkey Swamp Park (2011) and Bayshore Waterfront Park (2010). Fisherman's Cove Conservation Area still needs to be developed.</i>
Local champion	<i>County of Monmouth, NJ Forest Fire Service, Freehold Township., Manasquan Boro &amp; Middletown Township.</i>
Other community objectives	<i>Augments local fire marshal community protection efforts.</i>
<b>Implementing the Action</b>	
Priority	<i>Medium</i>
Local planning mechanism	<i>Community Wildfire Prevention Plan</i>
Responsible party	<i>Monmouth County Park System</i>
Potential funding sources	<i>Community Wildfire Prevention Plan, FEMA</i>
Time line	<i>1 year contract and implementation, then recurring four year cycle</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action proposed in 2014</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>County of Monmouth</i>
<b>Community action number</b>	9
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Coastal Erosion, Storm Surge, Wave Action, Severe Storm, Landslide</i>
<b>Risk finding</b>	<i>A section of the Henry Hudson Trail located in Atlantic Highlands along Sandy Hook Bay was destroyed by Superstorm Sandy. The adjacent coastal bluff experienced erosion at the base of slope from wave action and storm surge. Above the trail, located on the bluff, there are numerous high value residences that have taken advantage of the unique location. The bluff is subject to slump block failure usually associated with a rain event and disruption of the slope.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure Projects, Natural Resource Protection</i>
<b>Action type</b>	<i>Shoreline and slope stabilization</i>
<b>Action description</b>	<i>A mile segment of the coastal trail will be the target area of this project. Various living shoreline techniques and wave attenuation structures will be investigated to find the "best fit" approach that will be permissible, economic and supported by adjacent residents. Additional work of stabilization of the slope will also be investigated that will replant or restore the slope for adjacent public owned properties.</i>
<b>Existing, future &amp;/or NA</b>	<i>Addresses the protection of existing structures</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>It is anticipated that proposed shoreline stabilization will add a significant level of stabilization and protection of the adjacent coastal bluff. Eventual work will protect a public recreational facility as well as residential homes located on the bluffs with the associated public infrastructure of roadways, utilities and additional open space. Losses avoided by implementing the project are estimated to be in the neighborhood of roughly \$100 million.</i>
<b>Cost estimate</b>	<i>Phase 1 - Estimated \$150,000 for planning and feasibility phase Phase 2 - Project (slope stabilization; shoreline stabilization) - Estimated to be in the range of \$5 million to \$20 million.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is considered likely to be cost effective, with benefits on the order of \$100 million and costs on the order of \$20 million .</i>
<b>Technical</b>	<i>Technically feasible as other similar structures, and improvements have been installed in other coastal locations</i>
<b>Political</b>	<i>Public support for the repair and protection of the trail has been great since the damage from Superstorm Sandy. Additional support has been noted from the local town Environmental Commission.</i>
<b>Legal</b>	<i>Joint project with Borough of Atlantic Highlands and the State of New Jersey as proposed project will be located on lands owned by same.</i>
<b>Environmental</b>	<i>Must conform to NJDEP and US Army Corps of Engineers permitting issues</i>
<b>Social</b>	<i>Recreational facilities such as this trail, provide benefits for a wide age and ability cross section of the public. No displacement of adjacent residents is required.</i>
<b>Administrative capability</b>	<i>The County of Monmouth has the personnel and administrative capabilities to begin initial planning and studies for such a project and to determine or identify additional partnerships and permitting needs. Additional specialty consultants will be hired on an as needed basis.</i>

<b>Local champion</b>	<i>County of Monmouth, Borough of Atlantic Highlands, local residents, State of NJ</i>
<b>Other community objectives</b>	<i>May provide additional recreational opportunities for the public along shoreline.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>NJ Municipal Land Use Law, NJDEP Permitting</i>
<b>Responsible party</b>	<i>Monmouth County Park System</i>
<b>Potential funding sources</b>	<i>FEMA, Capital Sources</i>
<b>Time line</b>	<i>2 years for initial study and feasibility analysis, followed by implementation.</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New Action proposed in 2014</i>

Monmouth County  
Coastal Evacuation Routes Improvements

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Monmouth County</i>
<b>Community action number</b>	<i>10</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Hurricane, Tropical Storms, Nor'easter, Coastal Erosion, Flood, Storm Surge, Wave Action</i>
<b>Risk finding</b>	<i>Monmouth County has an active history of hurricanes and tropical storms. Implementation of evacuation orders related to an impending hurricane would have a significant impact on travel patterns and operating conditions on the area's transportation system. For example, prevailing directional patterns would be altered substantially as westbound and coastal residents and visitors traveling away from the coast to higher ground would heavily utilize northbound travel lanes. Congestion levels at locations that already have constrained service rate issues, such as merge junctions, ramps, and signalized major intersections would be exacerbated. The timing of an evacuation order would have a significant effect on traffic flows, the shorter the timeframe, the more intense delays and queing potential. Operational, physical and long term improvements (either by route or by type) would greatly enhance to capacity of these evacuation routes during an evacuation order.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and infrastructure projects</i>
<b>Action type</b>	<i>Protect critical infrastructure</i>
<b>Action description</b>	<i>Physical (signage, striping, conversion of traffic signals to LED) Operational (identifying severe inundation zones as priority areas, preparation to place 1st responders at key intersections and choke points and coordination of highway advisory radio) and Long Term (widening and elevating of roads and bridges) improvements to County evacuation routes as documented in the 2009 Monmouth County Coastal Evacuation Routes Improvement Study. This study provided a transportation system condition and assessment of 12 Portal Evacuation Routes within the County. Some targeted improvements based on the recommendations would likely result in substantial benefits on roadway capacity, balancing travel demand and safety along the overall length of each portal route</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The State's Highway system runs through Monmouth County as well as two County Roads have been incorporated into the NJ State Emergency Evacuation Route System. The addition of new portal candidates to the State's system will generate multiple benefits including improved area coverage, increased capacity to serve an intense evacuation demand, and an expanded number of diversion possibilities to circumvent congestion and blockages. This action will improve evacuation time during a significant storm event allowing residents and tourists to get out of harms way thus reducing loss of life. Life safety. Dollar losses avoided for projects of this nature are generally unquantifiable.</i>
<b>Cost estimate</b>	<i>A variety of discrete projects/improvements outlined in the study with costs ranging from a low of approximately \$500 to a high of roughly \$20,000,000.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>The projects are expected to be cost effective because their costs are expected to be less than the value of the estimated number of lives that could be lost under existing conditions.</i>

Monmouth County  
Coastal Evacuation Routes Improvements

<b>Technical</b>	<i>Technically feasible, study completed, recommendations documented.</i>
<b>Political</b>	<i>Positive public support and political will to support this action.</i>
<b>Legal</b>	<i>No known legal impediments.</i>
<b>Environmental</b>	<i>No negative environmental impacts.</i>
<b>Social</b>	<i>Residents would benefit from safer evacuation routes not affected by natural hazards.</i>
<b>Administrative capability</b>	<i>Monmouth County has the capability to oversee this action.</i>
<b>Local champion</b>	<i>Monmouth County Planning, DPW&amp;E, Highway, OEM and DOT. Municipal Governments.</i>
<b>Other community objectives</b>	<i>Overall effort to protect residents and visitors from the hazards of coastal flooding by evaluating how the current evacuation route system can be improved to help move people away from flood zones.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>2009 Monmouth County Coastal Evacuations Routes Improvement Study</i>
<b>Responsible party</b>	<i>Monmouth County Engineering and Monmouth County Planning</i>
<b>Potential funding sources</b>	<i>County Operating and Capital Budgets, State and Federal Grants, State Staff</i>
<b>Time line</b>	<i>Near term and intermediate operational improvements and long range physical solutions.</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>This is a new action for the updated HMP.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Monmouth County Department of Public Works &amp; Engineering</i>
<b>Community action number</b>	11
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Natural or human-made hazards.</i>
<b>Risk finding</b>	<i>Lack of fuel supply in a key location of Monmouth County, which is detrimental to operational and emergency services provided during a time of disaster or crisis.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure/Infrastructure</i>
<b>Action type</b>	<i>Design and construct an above ground fuel dispensing facility at Monmouth County Highway District #6 yard.</i>
<b>Action description</b>	<i>Monmouth County has strategically located highway district yards throughout the County, which have provided fuel to not only County &amp; Municipal fleets, but, during disaster events, to the National Guard, Federal Emergency Management, and Local Police, Fire, Ambulatory and Rescue vehicles. The construction of a fueling station at Highway District #6 in the Borough of Eatontown, would provide fuel in a central and critical area of Monmouth County. In order to mitigate (i.e. lessen the damage/cost) the results of a flooding event it is necessary to have a source of available fuel for vehicles</i>
<b>Existing, future &amp;/or NA</b>	<i>This project would allow emergency and service vehicles a quick response time to protect and serve human life and existing development.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The construction of this fueling station would ensure a fleet with little or no limitations on its ability to respond and react during the most vulnerable times for the region. A readily available source of emergency fuel is essential to ensure swift and reliable emergency response capabilities. Timing is crucial in the deployment of emergency responders and security officials. The detrimental impacts on the community because of inadequate fuel supply for emergency vehicles are extended response times, potentially resulting in increased damage to private and public property and risk human life.</i>
<b>Cost estimate</b>	<i>\$500,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>The risk to human life and potential for increased damages to private and public property resulting from inadequate fuel supply for emergency vehicles are generally unquantifiable, but will certainly be well in excess of the project cost.</i>
<b>Technical</b>	<i>Technical feasibility would be vetted out during design.</i>
<b>Political</b>	<i>There are no anticipated political implications.</i>
<b>Legal</b>	<i>There are no anticipated legal implications.</i>
<b>Environmental</b>	<i>Construction would be in accordance with all related laws and authorities and would be in compliance with any of the permitting issued by the appropriate regulatory agencies.</i>
<b>Social</b>	<i>The benefits of adding this fuel facility will include, but not be limited to, direct fuel access for emergency vehicles during disaster events, significantly improved emergency response time, and overall enhanced effectiveness of the County's ability to respond to the community's needs both during critical events and continuing through recovery efforts.</i>
<b>Administrative capability</b>	<i>Staff of Monmouth County Division of Public Works &amp; Engineering would oversee and coordinate the activities of the various consulting firms hired to perform the required work.</i>
<b>Local champion</b>	<i>Monmouth County Public Works &amp; Engineering</i>
<b>Other community objectives</b>	<i>N/A</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>N/A</i>
<b>Responsible party</b>	<i>Monmouth County Public Works &amp; Engineering</i>
<b>Potential funding sources</b>	<i>HMGP, PDM, and a County match, whether it be financial or in-kind in-house labor or both.</i>
<b>Time line</b>	<i>2 years - Monmouth County submitted a LOI to the Hazard Mitigation Grant Program in 2013.</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action proposed for inclusion in the 2014 Hazard Mitigation Plan Update.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Monmouth County Department of Public Works &amp; Engineering</i>
<b>Community action number</b>	<i>12</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Natural or human-made hazards.</i>
<b>Risk finding</b>	<i>Telecommunication and electrical systems at key Monmouth County Operational Buildings are negatively impacted during periods of power failure (interruption or loss of electrical service caused by disruption of power transmission caused by accident, sabotage, natural hazards, or equipment failure).</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure / Infrastructure Project</i>
<b>Action type</b>	<i>Protection of critical facilities.</i>
<b>Action description</b>	<i>The installation of permanent emergency generators at critical County Highway District facilities and the County Complex, which houses the administration buildings of the Department of Public Works, as well as the Divisions of Bridge, Highway, and Traffic Safety, to ensure the continuity of services during a disaster or crisis.</i>
<b>Existing, future &amp;/or NA</b>	<i>The Highway Districts and Divisions of Bridge, Highway, and Traffic Safety maintain and repair approximately 1,000 miles of County roadway and nearly 1,000 bridges and culverts, as well as the associated traffic signals and signs. Many roads and bridges are also considered critical infrastructure, particularly those providing ingress and egress for evacuees and those allowing emergency vehicles access to those in need. These roads are located in areas vulnerable to storm surge and inundation.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The detriments of these Districts &amp; Divisions being inoperable are extensive. They provide for event preparation/storm readiness (i.e. monitoring weather, delivering &amp; installing flood control devices &amp; sandbags, portable generators at critical intersections for traffic safety, etc.), assistance during the event (i.e. removal of fallen trees &amp; debris from critical evacuation routes, supply &amp; deliver concrete barriers to critical areas), and recovery post event (i.e. restore County infrastructure to safe and operating conditions). The benefits of this project for the County will be to ensure that each Highway District, the Public Works Administration, and the Divisions of Bridge, Highway &amp; Traffic have the electrical power necessary in advance of, during, and after any major disaster or hazard so that each strategically located facility can serve as the regional deployment center for the manpower, material, and equipment needed to maintain or repair County and/or municipal roads, bridges &amp; infrastructure for use by emergency vehicles (fire, first aid, and police) or evacuation routes for the general public.</i>
<b>Cost estimate</b>	<i>\$2,000,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>The benefit of maintaining power during emergencies is easily understood, but generally unquantifiable; however, the benefit will far exceed the project cost of \$2,000,000.</i>
<b>Technical</b>	<i>The installation of emergency generators is technically feasible.</i>
<b>Political</b>	<i>There are no anticipated political implications.</i>
<b>Legal</b>	<i>There are no anticipated legal implications.</i>
<b>Environmental</b>	<i>There are no anticipated negative environmental implications.</i>
<b>Social</b>	<i>The social benefit would be both tangible (i.e. the real effects of a coordinated effort during a disaster resulting in power outages) as well as intangible (i.e. the security of the public in knowing the government offices responsible for their health and well-being are operational and emergency services are being provided).</i>
<b>Administrative capability</b>	<i>Staff of Monmouth County Division of Engineering &amp; Traffic Safety would oversee and coordinate the activities of the various consulting firms hired to perform the required work to install the generators or to provide any maintenance to the equipment needed following installation.</i>
<b>Local champion</b>	<i>Monmouth County Public Works &amp; Engineering</i>
<b>Other community objectives</b>	<i>N/A</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Responsible party</b>	<i>Monmouth County Public Works &amp; Engineering</i>
<b>Potential funding sources</b>	<i>HMGP, PDM, and a County match, whether it be financial or in-kind in-house labor or both.</i>
<b>Time line</b>	<i>As soon as funding becomes available. Monmouth County submitted a LOI to the Hazard Mitigation Grant Program in 2013.</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action proposed for inclusion in the 2014 Hazard Mitigation Plan Update.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Monmouth County Department of Public Works &amp; Engineering</i>
<b>Community action number</b>	<i>13</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Hurricane, Tropical Storm, Nor'easter &amp; Dam Failure</i>
<b>Risk finding</b>	<i>Dam overtopping and downstream flooding. Address the capacity and integrity of NJDEP defined Class 1 dams (those structures which, should they fail, would likely cause loss of life) and Class 2 dams (those structures which, should they fail, would likely cause substantial downstream property damage but are not considered to be a threat to life) as well as the associated bridge and roadways.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure /Infrastructure projects</i>
<b>Action type</b>	<i>Dam Rehabilitation, Bridge Replacement, Roadway &amp; Drainage improvements</i>
<b>Action description</b>	<i>Rehabilitate and upgrade dams to meet current NJDEP Bureau of Dam Safety Standards for spillway, embankment, low level outlet structure &amp; downstream channel improvements. Replace the adjoining County-owned bridge &amp; raise the roadway profile to address the safety issue associated with a potential dam failure or improve passage during flood events. Project locations include, but are not limited to, the following: 1) Lake Lefferts Dam, County Bridge MA-9, Ravine Dr. (CR 6A), Matawan; 2) Matawan Lake Dam, County Bridge MA-13, Main St. (CR 516), Matawan; 3) Perrineville Dam, County Bridge MS-48, Perrineville Rd. (CR 1), Millstone; 4) Shadow Lake Dam, County Bridges MT-30 &amp; MT-45, Hubbard Ave. (CR 12), Middletown; 5) Indian Dam, County Bridge U-18, Church St. (CR 526), Allentown; and 6) Hurley Pond Dam, County Bridge W-18, Allenwood Rd., Wall.</i>
<b>Existing, future &amp;/or NA</b>	<i>The action would protect existing County infrastructure (i.e. bridges and roads) and surrounding property and life.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>By NJDEP Dam Safety Standards, high hazard potential dams are "those dams, the failure of which may cause the probable loss of life or extensive property damage." Specifically for the County, the benefits of these projects would be significant financially over the long-term, as there would be less road flooding, therefore, less damage to the structures (i.e. reduced repair and maintenance costs). Reduced roadway flooding would also provide for safer passage for the traveling public. Repairing damage to the bridge and roadway following an overtopping event is very costly. Upgrading dams to increase storage and spillway capacity would reduce the amount of overtopping events, therefore, decrease the frequency of the need for the County to close the roadway during flooding events and the subsequent emergency repairs.</i>
<b>Cost estimate</b>	<i>Engineering estimates would vary and are project specific.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Cost effectiveness would vary and would be project specific, but is generally thought to be significant given the number of people and value of property and infrastructure in the potential inundation areas.</i>
<b>Technical</b>	<i>Technical feasibility will be addressed during the design phase.</i>

<b>Political</b>	<i>Monmouth County does not own the primary dam structure however is identified as a co-owner of various dams with respective municipalities. Appropriate agreements will be executed prior to design &amp; rehabilitation of each dam.</i>
<b>Legal</b>	<i>Jurisdictional issues would be identified and addressed and the appropriate agreements executed prior to project commencement.</i>
<b>Environmental</b>	<i>Construction would be in accordance with all related laws and authorities and would be in compliance with any of the permitting issued by the appropriate regulatory agencies. The results of the project would ultimately benefit the environment, as less roadway debris would be washed into the surrounding surface waters.</i>
<b>Social</b>	<i>These projects would provide for safe passage to all members of the public who utilize these roadways, as well as maintain the recreational value derived from the water impounded to create the associated lakes (i.e. fishing, canoeing and other active and passive recreation).</i>
<b>Administrative capability</b>	<i>Staff of Monmouth County Public Works &amp; Engineering would oversee and coordinate the activities of the various consulting firms hired to perform the required work or work in coordination with the consultants hired by the local municipality.</i>
<b>Local champion</b>	<i>Monmouth County Department of Public Works &amp; Engineering, with the cooperation of and/or agreement with the local municipalities.</i>
<b>Other community objectives</b>	<i>N/A</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>N/A</i>
<b>Responsible party</b>	<i>Monmouth County Public Works &amp; Engineering</i>
<b>Potential funding sources</b>	<i>County Bond Ordinance in partnership with municipal funding</i>
<b>Time line</b>	<i>Ongoing</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Action proposed in the previous 2009 Hazard Mitigation Plan.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Monmouth County Public Works &amp; Engineering</i>
<b>Community action number</b>	14
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Natural or human-made hazards.</i>
<b>Risk finding</b>	<i>Telecommunication and electrical systems at key Monmouth County Administration Buildings are negatively impacted during periods of power failure (interruption or loss of electrical service caused by disruption of power transmission caused by accident, sabotage, natural hazards, or equipment failure).</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure / Infrastructure Project</i>
<b>Action type</b>	<i>Protection of critical facilities.</i>
<b>Action description</b>	<i>Installation of permanent emergency generators at Monmouth County Hall of Records (Freehold Borough) and Human Services Building (Freehold Township). These generators will be designed to handle all potential electrical loads at these buildings thereby ensuring uninterrupted continuity of County government and response to the emergency at hand.</i>
<b>Existing, future &amp;/or NA</b>	<i>Protects the County as a whole, as (1) the Hall of Records house the offices of the County Freeholders and Administration, as well as other essential offices, which establish priorities for response and recovery during a disaster or crisis from a centralized operational location; and (2) the Human Resources Building houses the staff that provides services and programs to address the needs of our most vulnerable citizens and those who may be struggling with an unexpected event and need assistance.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The benefits to the community are immeasurable as uninterrupted electrical power is needed to maintain operation and management of critical services that are coordinated by the County Board of Chosen Freeholders and Administrator, as well as other essential personnel, from a centralized location. It will also ensure the continued operation of the many services the Human Services Department provides to the community. Without the generators, the County would experience losses because of a reduced ability to provide effective executive oversight and direction during times of disaster, as well as the interruption of critical services needed at precisely a time of emergency or disaster. Relocation of these critical County operations to facilities with emergency generators, if available, would be a large undertaking and delay response.</i>
<b>Cost estimate</b>	<i>\$1,110,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>The benefit of maintaining power during emergencies is easily understood, but generally unquantifiable; however, the benefit will far exceed the project cost of \$1,100,000.</i>
<b>Technical</b>	<i>The installation of emergency generators is technically feasible.</i>
<b>Political</b>	<i>There are no anticipated political implications.</i>
<b>Legal</b>	<i>There are no anticipated legal implications.</i>
<b>Environmental</b>	<i>There are no anticipated negative environmental implications.</i>
<b>Social</b>	<i>The social benefit would be both tangible (i.e. the real effects of a coordinated effort during a disaster resulting in power outages) as well as intangible (i.e. the security of the public in knowing the government offices responsible for their health and well-being are operational and emergency services are being provided).</i>
<b>Administrative capability</b>	<i>Staff of Monmouth County Public Works &amp; Engineering would oversee and coordinate the activities of the various consulting firms hired to perform the required work to install the generators or to provide any maintenance to the equipment needed following installation.</i>
<b>Local champion</b>	<i>Monmouth County Public Works &amp; Engineering</i>
<b>Other community objectives</b>	<i>N/A</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Responsible party</b>	<i>Monmouth County Public Works &amp; Engineering</i>
<b>Potential funding sources</b>	<i>HMGP, PDM, and a County match, whether it be financial or in-kind in-house labor or both.</i>
<b>Time line</b>	<i>As soon as funding becomes available. Monmouth County submitted a LOI to the Hazard Mitigation Grant Program in 2013.</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action proposed for inclusion in the 2014 Hazard Mitigation Plan Update.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Monmouth County Public Works &amp; Engineering</i>
<b>Community action number</b>	15
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Hurricane &amp; Tropical Storm, Nor'easter</i>
<b>Risk finding</b>	<i>Road flooding results in damage to infrastructure, reduced safe passage, and isolation of neighborhoods by flood waters.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure / Infrastructure Project</i>
<b>Action type</b>	<i>Bridge replacement, roadway elevation and drainage improvements.</i>
<b>Action description</b>	<i>Projects may include the replacement of a County bridge or culvert and/or elevating the approach roadway above the flood elevation or to accommodate the new bridge structure. Project locations include, but are not limited to, the following: * County Bridge H-5 &amp; H-5A, Palmer Ave (CR 7), Holmdel &amp; Middletown; * County Bridge MA-11, Aberdeen Road, Matawan; * County Bridges ML-17, ML-18, &amp; ML-19, Station Rd., Marlboro; * County Bridge R-5, Florence Ave (CR 39), Union Beach; * Union Ave (CR 39), Union Beach</i>
<b>Existing, future &amp;/or NA</b>	<i>The action would protect existing County infrastructure (i.e. bridges and roads) and surrounding property and life.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Flooding submerges the roadway in water, which results in damage to the roadway and bridge and creates scour and embankment erosion. This increases the maintenance of these structures, causing financial strain to provide staff, materials, and equipment. Reduced roadway flooding would provide for safer passage for the traveling public. Flooded roads can result in isolated populations, creating difficulty for emergency vehicles to reach vulnerable residents and property during times of distress.</i>
<b>Cost estimate</b>	<i>Engineering estimates would vary and are project specific.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>The benefits of bridge reconstruction and roadway elevation would be financially significant over the long-term, as there will be less road flooding, therefore, less damage to the bridge (i.e. reduced repair and maintenance costs). Furthermore, the flooded roadway creates a traffic safety issue or the road is closed completely, resulting in the need to detour traffic to other roadways, adding to County and Municipal labor costs. Additionally, there is an adverse economic effect on local businesses that are inaccessible. For these reasons, while benefits and costs would vary and be project specific, these projects are anticipated to be cost effective given the frequency of flooding at the identified locations.</i>
<b>Technical</b>	<i>Technical feasibility will be addressed during the design phase.</i>
<b>Political</b>	<i>There are no known political implications, at this time. All work would be in agreement with the local municipalities.</i>
<b>Legal</b>	<i>Following design, jurisdictional issues would be identified and addressed and the appropriate agreements and right-of-entries would be acquired.</i>
<b>Environmental</b>	<i>Construction would be in accordance with all related laws and authorities and would be in compliance with any of the permitting issued by the appropriate regulatory agencies. The result of the projects would ultimately benefit the environment, as less roadway chemicals and debris would wash into the surface waters.</i>
<b>Social</b>	<i>These projects would provide for safe passage to all members of the public who utilize these roadways.</i>
<b>Administrative capability</b>	<i>Staff of Monmouth County Public Works &amp; Engineering would oversee and coordinate the activities of the various consulting firms hired to perform the required work.</i>
<b>Local champion</b>	<i>Monmouth County Public Works &amp; Engineering and local municipalities.</i>
<b>Other community objectives</b>	N/A
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	N/A
<b>Responsible party</b>	<i>Monmouth County Public Works &amp; Engineering</i>
<b>Potential funding sources</b>	<i>County Bond Ordinance, Transportation Funding</i>
<b>Time line</b>	<i>Ongoing</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Action proposed in the previous 2009 Hazard Mitigation Plan.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Monmouth County Department of Public Works &amp; Engineering</i>
<b>Community action number</b>	<i>16</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Hurricane &amp; Tropical Storm, Nor'easter, Extreme Wind</i>
<b>Risk finding</b>	<i>Storm events and subsequent flooding wash substantial amounts of debris and sedimentation in creeks and waterways, compounding the effects of natural siltation and build up of debris and fallen trees, which obstruct the natural flow of some surface waters, resulting in increased inland and coastal flooding.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure / Infrastructure Project</i>
<b>Action type</b>	<i>Ensuring the unobstructed flow of streams, creeks, and rivers through and immediately adjacent to infrastructure owned and/or maintained by Monmouth County.</i>
<b>Action description</b>	<i>Hard armoring of creek and river banks and shorelines is not always possible or desirable. In most areas of the County, the only way to mitigate (i.e. lessen the effect of) the results of flooding is to anticipate for, maintain, and provide efforts to recover from after an extreme event. Thus, it is essential to inspect and maintain the structural integrity of County infrastructure and to perform activities to remove debris and sediment that may negatively effect the flow of surface water in and around this infrastructure; prestorm, during the storm event, and clean-up afterwards. This includes activities such as removing debris from support bracing underneath low-lying bridges and culverts, clearing sediment build-up, or repairing embankment erosion on riverbanks near County infrastructure. Also, repairing and cleaning stormwater drains and other drainage systems.</i>
<b>Existing, future &amp;/or NA</b>	<i>The action protects existing County infrastructure (i.e. roads, bridges, and culverts) and surrounding property and life.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Flooding has the potential to negatively impact County infrastructure (i.e. roads, bridges, and culverts). For example, when culverts become inadequate to carry the flow of surface water due to clogging from excess storm debris and sediment, the streams back up, flood and overtop roads with water, creating driving hazards and undermine approach roadways.</i>
<b>Cost estimate</b>	<i>Varies with the intensity and location of the storm event.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This action is anticipated to be cost effective, with benefits in excess of project costs. Improvements to infrastructure will decrease the frequency of the need for the County to close the roadway during flooding events and the subsequent emergency repairs. There will also be potential for reduced damages to property and hazards to life that is created by flooding. Results from compromised infrastructure could result in isolated population, disruption to transportation, structural and property damage, debris distribution and other environmental impacts.</i>
<b>Technical</b>	<i>These activities are economically defensible and technically sound.</i>
<b>Political</b>	<i>There are no anticipated political implications. Coordination with the municipalities would be arranged prior to activities, if necessary.</i>
<b>Legal</b>	<i>Work is typically performed in the County Right-of-Way.</i>
<b>Environmental</b>	<i>There are no anticipated environmental detriments. Activities to reduce or address surface water flow blockages enhance the environment, as surface waters that flood adjacent lands (including residential, commercial and agricultural areas) decrease water quality through increased turbidity and non-point source pollution.</i>
<b>Social</b>	<i>This project would provide for safe passage to all members of the public who utilize this roadway and protect surrounding property owners.</i>
<b>Administrative capability</b>	<i>Work is routinely performed with staff and equipment from the Monmouth County Department of Public Works &amp; Engineering.</i>
<b>Local champion</b>	<i>Monmouth County Department of Public Works &amp; Engineering and local municipalities.</i>
<b>Other community objectives</b>	<i>N/A</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>N/A</i>
<b>Responsible party</b>	<i>Monmouth County Department of Public Works &amp; Engineering and local municipalities.</i>
<b>Potential funding sources</b>	<i>NRCS EWP Grant, match from County in-house labor and/or Capital and/or Operating Budget.</i>
<b>Time line</b>	<i>Annual and on-going.</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action proposed for inclusion in 2014 Hazard Mitigation Plan Update. Received an EWP Grant from NRCS in 2013.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Monmouth County Public Works &amp; Engineering</i>
<b>Community action number</b>	<i>17</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Hurricane, Tropical Storm, Nor'easter, Wave Action, Storm Surge &amp; Erosion</i>
<b>Risk finding</b>	<i>Structural integrity of bridges that are exposed to wave, tidal, and storm surges. These bridges may carry coastal evacuation routes and any damage to the bridge may impair safe passage, ultimately jeopardizing human life. Bridges include, but are not limited to, W-43 (Avon-by-the-Sea &amp; Belmar), S-31 (Middletown &amp; Rumson), S-32 (Rumson &amp; Sea Bright), and W-9 (Brielle &amp; Manasquan).</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure / Infrastructure Project</i>
<b>Action type</b>	<i>Protect critical infrastructure.</i>
<b>Action description</b>	<i>Scour/embankment protection and repairs. Due to the location of coastal bridges, the substructure is highly susceptible to scour and the effects of waves, tides, and storm surges. Installing hard-armoring (ie. rip rap, jetty stone, and/or steel sheeting) would mitigate this coastal erosion that jeopardizes County bridges and the roads they carry. One such bridge is Monmouth County Bridge W-43 over the Shark River in the boroughs of Avon-by-the-Sea and Belmar. Bridge W-43 carries Ocean Ave. (CR 18). Other potential bridges include, but are not limited to, S-31 (Middletown &amp; Rumson), S-32 (Rumson &amp; Sea Bright), and W-9 (Brielle &amp; Manasquan).</i>
<b>Existing, future &amp;/or NA</b>	<i>The action would protect existing County infrastructure (i.e. bridges and roads) and surrounding property and life.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The benefits of hard-armoring would reduce the repairs needed at the bridge and would allow for an open road and unimpeded travel. Hard-armoring would be beneficial in the long-term as it would reduce the need for emergency repairs, help to prevent against undermining of abutments and wash-out of roadway fill.</i>
<b>Cost estimate</b>	<i>Engineering estimates would vary and are project specific.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Cost effectiveness would vary and would be project specific; however losses avoided are estimated to generally be well in excess of site specific costs.</i>
<b>Technical</b>	<i>Technical feasibility will be addressed during the design phase.</i>
<b>Political</b>	<i>There are no known political implications, at this time. All work would be in agreement with the local municipalities.</i>
<b>Legal</b>	<i>Following design, jurisdictional issues would be identified and addressed and the appropriate agreements and right-of-entries would be aquired, if needed.</i>
<b>Environmental</b>	<i>Construction would be in accordance with all related laws and authorities and would be in compliance with any of the permitting issued by the appropriate regulatory agencies. The results of the project would ultimately benefit the environment, as less roadway debris and fill would be washed into the surrounding surface waters.</i>
<b>Social</b>	<i>This project would provide for safe passage to all members of the public who utilize this roadway.</i>
<b>Administrative capability</b>	<i>Staff of Monmouth County Public Works &amp; Engineering would oversee and coordinate the activities of the various consulting firms hired to perform the required work.</i>
<b>Local champion</b>	<i>Monmouth County Department of Public Works &amp; Engineering, with the cooperation of and/or agreement with the local municipalities.</i>
<b>Other community objectives</b>	<i>These coastal bridge are highly trafficked during the summer months by vehicles, bicycles, and pedestrians alike and experience increased use due to seasonal tourism. These bridges also span navigable waterways that accommodate boat traffic. The foot of these bridges may also serve as a place for fishermen, sunbathers, and those enjoying other beach activities.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>N/A</i>
<b>Responsible party</b>	<i>Monmouth County Department of Public Works &amp; Engineering</i>
<b>Potential funding sources</b>	<i>Capital Bond Ordinance, Transportation Funding</i>
<b>Time line</b>	<i>Ongoing</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Action proposed in the previous 2009 Hazard Mitigation Plan.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Monmouth County Department of Public Works &amp; Engineering</i>
<b>Community action number</b>	<i>18</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Hurricane &amp; Tropical Storm, Nor'easter</i>
<b>Risk finding</b>	<i>Highway District #8's office building and garage, in the Township of Hazlet, are prone to flooding. The critical equipment stored in these buildings may be compromised by floodwater, therefore could be detrimental to operational and emergency services provided during a time of disaster or crisis.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Emergency Response.</i>
<b>Action type</b>	<i>Protection of critical facilities.</i>
<b>Action description</b>	<i>Monmouth County has strategically located highway district yards throughout the County. The office building and garage at Highway District #8, in the Township of Hazlet, is prone to flooding. This project is for the design and reconstruction of the building and garage at a higher elevation to ensure the continuity of services during a disaster or crisis.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing facilities.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The detriments of Highway District #8 being inoperable are extensive. They provide for event preparation/storm readiness (i.e. delivering &amp; installing flood control devices &amp; sandbags), assistance during the event (i.e. removal of fallen trees &amp; debris from critical evacuation routes, supply &amp; deliver concrete barriers to critical areas), and recovery post event (i.e. restore County infrastructure to safe and operating conditions). The benefits of ensuring that this Highway District has the electrical power necessary in advance of, during, and after any major disaster or hazard is that so this strategically located facility can serve as the regional deployment center for the manpower, material, and equipment needed to maintain or repair County and/or municipal roads, bridges &amp; infrastructure for use by emergency vehicles (fire, first aid, and police) or evacuation routes for the general public.</i>
<b>Cost estimate</b>	<i>\$600,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits estimated to be well in excess of project costs.</i>
<b>Technical</b>	<i>Technical feasibility would be vetted out during design.</i>
<b>Political</b>	<i>There are no anticipated political implications.</i>
<b>Legal</b>	<i>There are no anticipated legal implications.</i>
<b>Environmental</b>	<i>Construction would be in accordance with all related laws and authorities and would be in compliance with any of the permitting issued by the appropriate regulatory agencies.</i>
<b>Social</b>	<i>The social benefit would be both tangible (i.e. the real effects of a coordinated effort during a disaster) as well as intangible (i.e. the security of the public in knowing that government facilities are operational and emergency services are being provided).</i>
<b>Administrative capability</b>	<i>Staff of Monmouth County Division of Public Works &amp; Engineering would oversee and coordinate the activities of the various consulting firms hired to perform the required work.</i>
<b>Local champion</b>	<i>Monmouth County Public Works &amp; Engineering</i>
<b>Other community objectives</b>	<i>N/A</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>N/A</i>
<b>Responsible party</b>	<i>Monmouth County Public Works &amp; Engineering</i>
<b>Potential funding sources</b>	<i>HMGP, PDM, and a County match, whether it be financial or in-kind in-house labor or both.</i>
<b>Time line</b>	<i>As soon as funding becomes available.</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Action proposed in the previous 2009 Hazard Mitigation Plan.</i>

<b>Other community objectives</b>	<i>Preparedness and public education for high risk individuals.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High Priority</i>
<b>Local planning mechanism</b>	<i>The local planning mechanism is the Superstorm Sandy After Action Report and County Emergency Operations Plan</i>
<b>Responsible party</b>	<i>County Emergency Management Coordinator</i>
<b>Potential funding sources</b>	<i>Homeland grants, preparedness grants, PDM grants, budget and private funding sources</i>
<b>Time line</b>	<i>Continuous</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>This is a new action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>County of Monmouth</i>
<b>Community action number</b>	<i>19</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All Hazards</i>
<b>Risk finding</b>	<i>The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level of disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities (including, but not limited to, projects such as flood vents, residential floodproofing, and elevation of utilities).</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Education and awareness programs</i>
<b>Action type</b>	<i>Multi-hazard education and risk awareness</i>
<b>Action description</b>	<i>The delivering of preparedness education and community outreach on programs geared towards preparedness and small scale mitigation efforts. This action will be the delivering of preparedness education in the form of mitigation seminars discussing mitigation options, ie. flood vents, wet and dry floodproofing, elevation of utilities etc. The action will involve community focus meetings targeting the most at risk communities and working through each area of the County.</i>
<b>Existing, future &amp;/or NA</b>	<i>The action covers both current and future issues and risks.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>This action will be very effective in eliminating or reducing the potential loss of life that could evolve as a result of any All Hazard event. The information provided is directly related to the cause of protecting individuals from harm. While this program is not directly related to infrastructure or structures the education provided will assist the at risk population in preparing their homes and businesses for potential impacts, thus providing an inherent benefit. Losses avoided are generally deemed to be unquantifiable for projects of this nature, however, benefits are expected to be in excess of costs.</i>
<b>Cost estimate</b>	<i>The program is estimated to have the following costs: Program deliver/manager \$45,000.00 per year for 3 years at a total of cost of \$135,000.00. The program requires advertising and course materials at a cost of \$5,000.00 per year for 3 years for a total of \$15,000.00. The program provides a family disaster kit to each participant. the current program provides 600 kits each quarter for a total of 7,200 kits over a 3 year period totaling \$432,000.00 and a grand total for the action of \$582,000.00.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>The costs of this action is minimal to that of what could happen if no action is taken. Any injury or even worse a loss of a life will outweigh the costs of this program/action and the project overall is expected to be cost effective.</i>
<b>Technical</b>	<i>Yes it is technically feasible</i>
<b>Political</b>	<i>Yes the program is already being conducted and has had enormous support from every aspect including that of political leaders.</i>
<b>Legal</b>	<i>Yes this is an outreach community education program with no legal issues</i>
<b>Environmental</b>	<i>No negative environmental impacts from this action</i>
<b>Social</b>	<i>This action supports all population segments, but is focused on the elderly and or at risk population. This program will actually bring neighborhoods closer together.</i>
<b>Administrative capability</b>	<i>The county has committed personnel to this program, however if this were to be implemented on this scale, outside assistance would be needed.</i>
<b>Local champion</b>	<i>The County Freeholders and numerous County departments have bought into the concept and are currently supporting its action.</i>
<b>Other community objectives</b>	<i>Preparedness and public education for high risk individuals.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High Priority</i>
<b>Local planning mechanism</b>	<i>The local planning mechanism is the Superstorm Sandy After Action Report and County Emergency Operations Plan</i>
<b>Responsible party</b>	<i>County Emergency Management Coordinator</i>
<b>Potential funding sources</b>	<i>Homeland grants, preparedness grants, PDM grants, budget and private funding sources</i>
<b>Time line</b>	<i>Continuous</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>This is a new action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Monmouth County</i>
<b>Community action number</b>	<i>20</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Extreme wind, hurricanes and tropical storms, nor'easters</i>
<b>Risk finding</b>	<i>Monmouth County has established a large County evacuation center at Brookdale Community College. The building, although structurally sound, does have some exterior windows and doors that could become compromised during a wind generating event.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure Projects</i>
<b>Action type</b>	<i>Retrofit Critical Facilities</i>
<b>Action description</b>	<i>Shelter hardening for wind damage. The project will provide building retrofits with hurricane proof glass and storm shutters for the exterior windows and any applicable doors.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>This action will provide for a more resilient community evacuation shelter from all hazard events. The losses avoided would be damage to the building windows and glass doors from high winds and wind-blown debris impacts. It would also prevent secondary damages to the interior of the structure due to water intrusion during a storm after windows/doors are compromised. This action could also potentially avoid injury or loss of life to an evacuee within the shelter from blowing glass. These types of benefits are difficult to quantify. As a rough order of magnitude, avoided structural damages alone could be on the order of \$1,000,000 (assuming that 60% of windows and glass doors would need to be replaced, repair costs would be 50 windows at \$2,500 each and #25 doors at \$5,000 each, plus \$250,000 in labor; and perhaps \$250,000 secondary interior damages after the building envelope is compromised). Actual benefits would be even higher, because this would not include the humanitarian benefits of avoided injury and loss of life.</i>
<b>Cost estimate</b>	<i>\$250,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>The cost effectiveness of this proposed project is multifaceted in that the action protects the building from potential damage and insurance claims as well as it provides a fortified resilient location for residents to take shelter during a storm event. This project is expected to be cost effective, with benefits estimated to be in excess of \$2,000,000 (not including potential loss of life) as compared to costs of only \$250,000</i>
<b>Technical</b>	<i>Through careful planning using a qualified architect to design the project, this project is technically feasible.</i>
<b>Political</b>	<i>There are no anticipated negative political issues with this action. In fact, it is anticipated that this action would draw strong political support.</i>
<b>Legal</b>	<i>No legal challenges are anticipated. The building that is the focus of this project is at the County College, which is under the auspices of the County Board of Freeholders.</i>
<b>Environmental</b>	<i>There are no environmental impacts with this project.</i>
<b>Social</b>	<i>This project provides benefit to all segments of the counties population and causes no segregation of any particular voting district, neighborhood, religious or ethnic group.</i>
<b>Administrative capability</b>	<i>Since the building is under County control, this project is administratively feasible.</i>
<b>Local champion</b>	<i>Municipalities in the County support the OEM's desire to establish county-wide regional shelters.</i>
<b>Other community</b>	<i>This action does not provide benefit to any other community objectives.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning</b>	<i>Local and state building codes will be followed when implementing this project.</i>
<b>Responsible party</b>	<i>Monmouth County OEM Director</i>
<b>Potential funding sources</b>	<i>Grants: Due to current budget constraints, this project can only be completed if grant funds are obtained.</i>
<b>Time line</b>	<i>If funded 1 year.</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Aberdeen Township</i>
Community action number	<i>1</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>All</i>
Risk finding	<i>.The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities. Aberdeen has a fairly steady flow of infill development and redevelopment and its population is increasing, so promoting disaster resistant development will be key to achieving sustainability.</i>
<b>Describing the Action</b>	
Action category	<i>Education and Awareness Programs</i>
Action type	<i>Public Outreach</i>
Action description	<i>Create a mitigation outreach program that helps residents prepare for and mitigate disasters. Increase awareness of natural hazard risks and safety. Educate the public about hazard mitigation techniques and promote disaster-resistant development.</i>
Existing, future &/or NA	<i>N/A</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Protection of public health and safety through public outreach that encourages advanced disaster preparation for households and businesses. This action is intended to increase the public's awareness of the hazards to which they are susceptible, and how they can best prepare for and potentially mitigate their impacts. This will result in a reduction in the number of emergency calls during storm events, and protect public health and safety. Unable to quantify losses avoided, as are reoccurring on an annual basis; however losses are estimated at \$50,000 per year and are likely to be more than the cost estimate below.</i>
Cost estimate	<i>Minimal (approximately \$25,000 initially with an approximate recurring annual cost of \$2,500 for the outreach program).</i>
Cost effectiveness (i.e., benefit/cost)	<i>Potential losses include loss of lives and compromise of public health and safety. The benefits of this action far outweigh the costs, with benefits estimated to be on the order of \$50,000 and costs of only around \$25,000.</i>
Technical	<i>Yes</i>
Political	<i>Yes. Supported by municipal council.</i>
Legal	<i>Yes. Supported by municipal council.</i>
Environmental	<i>N/A</i>
Social	<i>The proposal will provide outreach to the entire population.</i>
Administrative capability	<i>Yes</i>
Local champion	<i>Yes - Administration and Office of Emergency Management</i>
Other community objectives	<i>Increase Public Awareness and overall resiliency to emergency situations</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Public Outreach</i>
Responsible party	<i>John Powers, OEM Officer</i>
Potential funding sources	<i>Local Budget and Staff Time</i>
Time line	<i>Ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>- Carried forward from the last version of the plan</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Aberdeen Township</i>
Community action number	2
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding caused by hurricanes/storms/nor'easters</i>
Risk finding	<i>Several roadways in the Township are flood prone. This includes but is not limited to: State Highway 35 at Long Neck Creek; Lakeshore Drive at Greenwood Avenue; and Amboy Avenue.</i>
<b>Describing the Action</b>	
Action category	<i>Planning Mechanism</i>
Action type	<i>drainage improvement/elevation</i>
Action description	<i>Develop specific mitigation solutions for flood-prone roadways, specifically State Highway 35 at Long Neck Creek, under leadership of NJDOT; Lakeshore Drive at Greenwood Avenue, by Township; and Amboy Avenue under the leadership of Monmouth County. Route 35 is currently under construction; Lakeshore Drive is at advertisement/bid phase; and Amboy Avenue in in planning stage. Work plan for what role the Township can play in selection and implementation of mitigation activities for Amboy Avenue Bridge MA-14 reconstruction is being developed, including money/contextual support through the local capital improvement plan for utility relocation. The Township will also assist with public awareness through its web site.</i>
Existing, future &/or NA	<i>Both</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The mitigation action would protect public and private property and public health and safety, eliminate extreme and lengthy traffictours, and would prevent the inability of emergency services personnel to reach flood prone areas of the Township during these events. Potential losses include loss of lives, property, and compromise of public health and safety. Losses, including travel time, gas, pollution, police for traffic control, potential fire damage, but EXCLUDING potential loss of life [incalculable], avoided by all of the projects are estimated to be approximately \$1,000,000 per year with approximately \$300,000 annually for just the Lakeshore Drive Project.</i>
Cost estimate	<i>Unknown. Significant capital costs are anticipated. Costs are estimated to be roughly on the order of \$10,000,000 for Route 35; \$5,000,000 for Amboy Avenue; and \$550,000 for Lakeshore Drive.</i>
Cost effectiveness (i.e., benefit/cost)	<i>Both the NJDOT Route 35 project and the Monmouth County Amboy Avenue Bridge project are beyond the financial authority of Aberdeen Township, except as a stakeholder. However, the Lakeshore Drive project is a Township project, partially funded by NJDOT Trust funds. The benefits of this project (\$300,000 per year due to flooding frequency) far outweigh the costs (\$550,000) and this project is likely to be cost effective.</i>
Technical	<i>Yes</i>
Political	<i>Yes. Supported by municipal council, NJDOT, and Monmouth County Freeholders.</i>
Legal	<i>Yes</i>
Environmental	<i>Yes. Impacts include reduction in flooding occurrences.</i>
Social	<i>The proposal will provide a benefit to the residents of flood prone sections of the Township and to the region as a whole.</i>
Administrative capability	<i>Yes</i>
Local champion	<i>NJDOT, Monmouth County, and Aberdeen Township Council</i>
Other community objectives	<i>Yes - the action reduces flooding, enhances emergency response abilities, and protects quality of life and public and private property.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Capital Improvement Plan Update</i>
Responsible party	<i>NJDOT/Township Engineer/Township Manager/Monmouth County Highway Dept.</i>
Potential funding sources	<i>combination of local, state and county capital improvement budgets and grants</i>
Time line	<i>Ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward from the last version of the plan</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Aberdeen Township</i>
Community action number	3
<b>Assessing the Risk</b>	
Hazard(s) addressed	Storm surge, flooding, hurricanes, tropical storms, nor'easters
Risk finding	Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.
<b>Describing the Action</b>	
Action category	Structure and Infrastructure Projects
Action type	Protect Structures
Action description	Elevation of Floodprone Residential Structures. Elevation 16
Existing, future &/or NA	Existing
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	Losses avoided by this project are estimated to be \$3,500,000
Cost estimate	The cost of this project is estimated to be \$1,000,000..
Cost effectiveness (i.e., benefit/cost)	This projects is likely to be cost effective, with benefits of \$3,500,000 and costs of \$1,000,000.
Technical	Elevation is technically feasible
Political	Our political leadership enthusiastically supports this type of project.
Legal	While the municipality does not own the structures in questions, we fully support the homeowners in moving forward and has assisted in expediting applicable permits.
Environmental	No environmental impacts are anticipated as a result of elevating the homes.
Social	No particular social group in our community is likely to be disproportionately impacted by this project.
Administrative capability	Our municipality has the administrative capabilities to manage an elevation project through the Township Manager's office, Public Works Department, and the Building Department.
Local champion	affected homeowners: B 341,L 11;B 367, L 4.01; B370, L 14; B371, L 4, 5, 7; & B 376, L 14.
Other community objectives	Enhance neighborhood and community relationships through volunteer programs
<b>Implementing the Action</b>	
Priority	High
Local planning mechanism	Public Outreach
Responsible party	Township Manager, Construction Code Official, Director of Public Works, Township Engineer
Potential funding sources	FEMA hazard mitigation grant funding streams (i.e., HMGP)
Time line	ongoing
<b>Reporting on Progress</b>	
Action progress status	"new" - Block 341, Lot 11 - Damaged building demolished by volunteer contractor and relocated new structure currently under construction by non-profit organization

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Aberdeen Township</i>
Community action number	4
<b>Assessing the Risk</b>	
Hazard(s) addressed	Storm surge, flooding, hurricanes, tropical storms, nor'easters
Risk finding	Several astewater pumping stations structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.
<b>Describing the Action</b>	
Action category	Structure and Infrastructure Projects
Action type	Protect Structures
Action description	Raise structures, or vulnerable components thereof, to either be above current BFEs, or otherwise waterproofed, to provide resiliency in future events and minimize waste water overflows.
Existing, future &/or NA	Existing
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	Losses avoided by this project are estimated to be \$950,000
Cost estimate	The cost of this project is estimated to be \$700,000.
Cost effectiveness (i.e., benefit/cost)	This projects is likely to be cost effective, with benefits of \$950,000 and costs of \$700,000.
Technical	Elevation is technically feasible
Political	the Township Council has support for this project and has authorized funds for same.
Legal	The municipality owns the structures in questions and fully supports the project in moving forward.
Environmental	Favorable environmental impacts are anticipated as a result of elevating, or waterproofing components, of the pump stations by minimizing the potential for
Social	No particular social group in our community is likely to be disproportionately impacted by this project
Administrative capability	Our municipality has the administrative capabilities to manage an elevation project.
Local champion	Township Manager, Director of Public Works, Township Engineer
Other community objectives	increased resiliency and minimize environmental impacts
<b>Implementing the Action</b>	
Priority	High
Local planning mechanism	Capital Improvement Plan
Responsible party	Township Manager, Director of Public Works, Township Engineer
Potential funding sources	FEMA hazard mitigation grant funding streams (i.e., HMGP)
Time line	ongoing - bid phase
<b>Reporting on Progress</b>	
Action progress status	new

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Township of Aberdeen</i>
<b>Community action number</b>	5
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Storm surge, flooding, hurricanes, tropical storms, nor'easters
<b>Risk finding</b>	Previously existing dunes and an ADA sidewalk on top of a seawall were damaged and/or destroyed by storm surge. The elimination of the dunes permitted the storm surge to adversely impact the Township's Beach Park recreation facilities, destroying an in-line skating rink and damaging basketball courts and play equipment. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	Protect Structures
<b>Action description</b>	Develop specific mitigation solutions for both dunes and sidewalk that would help mitigate future damages and provide a greater level of resiliency.
<b>Existing, future &amp;/or NA</b>	Existing
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Losses avoided by this project are estimated to be \$1,000,000.
<b>Cost estimate</b>	The cost of this project is estimated to be \$950,000.
<b>Cost effectiveness (i.e., benefit/cost)</b>	This projects is likely to be cost effective, with benefits of \$1,000,000 per event and costs of \$950,000.
<b>Technical</b>	Reconstruction is technically feasible
<b>Political</b>	The Township Council supports this project
<b>Legal</b>	The municipality owns the lands and structures in question and fully supports the project moving forward.
<b>Environmental</b>	No adverse environmental impacts are anticipated as a result of reconstructing the dunes and sidewalk.
<b>Social</b>	No particular social group in our community is likely to be adversely impacted by this project.
<b>Administrative capability</b>	the Township of Aberdeen has the administrative capabilities to manage the projec.
<b>Local champion</b>	Township Manager, Director of Public Works, Township Engineer
<b>Other community objectives</b>	Restore valuable anesthetic facility and recreation facilities to improve neighborhood participation
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	Township's Capital Improvement Plan update
<b>Responsible party</b>	Township Manager, Director of Public Works, Township Engineer
<b>Potential funding sources</b>	FEMA hazard mitigation grant funding streams (i.e., HMGP)and municipal capital improvement budget
<b>Time line</b>	Ongoing -- design stage
<b>Reporting on Progress</b>	
<b>Action progress status</b>	new

# Action Worksheet

<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Aberdeen Township</i>
<b>Community action number</b>	<i>6</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Storm surge, flooding, hurricanes, tropical storms, nor'easters, extreme temperatures, lightning, winter storms
<b>Risk finding</b>	Storm events can be accompanied by loss of power, sometimes lasting over an extended period of time, resulting in a loss of communications, or heat or air conditioning and associated adverse impacts for the young and elderly. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events and power outages.
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	Protect structures and provide a community shelter.
<b>Action description</b>	Develop specific mitigation solutions that helps residents prepare for and mitigate loss of communications and seasonal severe temperature events by providing a community shelter. This project is intended to protect public health and safety and reduce the number of emergency calls during storm events.
<b>Existing, future &amp;/or NA</b>	Existing
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Losses avoided by this project are unable to be estimated as they are of a recurring nature. However, it is anticipated said losses could be estimated at \$50,000.00 per year, that the loss costs will be on a recurring basis and the construction costs will be a one-time event.
<b>Cost estimate</b>	The cost of this project is estimated to be \$500,000.
<b>Cost effectiveness (i.e., benefit/cost)</b>	Potential losses include loss of life and compromise of public health and safety. The benefits of this action far outweigh the costs, with benefits estimated to be on the order of \$50,000 per event and costs of \$500,000.
<b>Technical</b>	The conversion of an exist. fire/first aid bldg to a community center is technically feasible
<b>Political</b>	The Township Council, and public, support this project
<b>Legal</b>	The municipality owns the structure in question and fully supports the project moving forward.
<b>Environmental</b>	No environmental impacts are anticipated as a result of reconstructing the existing structure
<b>Social</b>	No particular social group in our community is likely to be adversely impacted by this project. public hearings on the proposal have been held with a favorable input from the local population.
<b>Administrative capability</b>	Aberdeen has the administrative capabilities to manage the reconstruction / conversion project.
<b>Local champion</b>	Township Manager, Director of Public Works, Township Engineer
<b>Other community objectives</b>	Create a Community Center to provide shelter during storm events, a local Police PBA community station, and seniors activity area
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	insert here
<b>Responsible party</b>	Township Manager, Director of Public Works, Township Engineer
<b>Potential funding sources</b>	FEMA hazard mitigation grant funding streams, Monmouth County Community Development Block Grant
<b>Time line</b>	ongoing - design stage
<b>Reporting on Progress</b>	
<b>Action progress status</b>	new

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>ALLENHURST BOROUGH</i>
Community action number	<i>1</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Hurricane, tropical storm &amp; Storm surge</i>
Risk finding	<i>Structure damage in storm surge zone.</i>
<b>Describing the Action</b>	
Action category	<i>Structural Projects&amp; Planning mechanism.</i>
Action type	<i>Elevation of structures, portability of structures, creation of storm annex in basic plan.</i>
Action description	<i>The OEM Basic plan was amended to include a "major storm annex" detailing the removal of structures from the beach. Permanent beach structures were replaced with modular. Boardwalk elevation structures are being raised and replaced block constructed buildings.</i>
Existing, future &/or NA	<i>existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>There will be no effect on life safety. The current action will play a significant role in reducing any further damage to Borough beachfront structures.</i>
Cost estimate	<i>\$3,500,000.00 +/-</i>
Cost effectiveness (i.e., benefit/cost)	<i>These actions are 100% cost effective. When implemented and carried out it should significantly reduce or even eliminate any further damage to Borough beachfront structures.</i>
Technical	<i>The "major storm annex" is completely feasible. The structural actions were reviewed by the Borough engineer and determined to be prudent.</i>
Political	<i>The public and governing body held several public meetings where these measures were discussed and agrred upon.</i>
Legal	<i>The community has cleared all actions with appropriate authoriies prior to taking any action.</i>
Environmental	<i>There is no environmental impact regarding the Borough's actions. The DEP was queried prior to any action and approved of same prior to implementation.</i>
Social	<i>There is no social impact regarding any of the actions undertaken.</i>
Administrative capability	<i>The Borough is capable of handling these actions without outside assistance.</i>
Local champion	<i>The governing body of the Borough of Allenhurst.</i>
Other community objectives	<i>Not at this time.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Building codes, Borough Ordinances &amp; Resolutions, and OEM annexes.</i>
Responsible party	<i>BA Lori Osborn</i>
Potential funding sources	<i>Local budgeting, local staff time and possibly FEMA funding.</i>
Time line	<i>Much of the work has been completed. The remainder should be completed by 6/2015</i>
<b>Reporting on Progress</b>	
Action progress status	<i>This is a new action due to storm damage from Hurricane Sandy. Cabanas have been replaced by modular units. Restaurant is in planning and should be complete by 6/2015</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Allenhurst</i>
<b>Community action number</b>	<i>2</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, storm surge, hurricane &amp; tropical storm, nor'easter</i>
<b>Risk finding</b>	<i>During storm events it is critical to maintain emergency services throughout the Borough. To maintain these services pre-storm maintenance is necessary for drainage and sanitary infrastructure.</i>
<b>Action category</b>	<i>Structure/ Infrastructure</i>
<b>Action type</b>	<i>jet/ vacuum debris truck</i>
<b>Action description</b>	<i>To maintain storm drainage and sanitary service throughout the municipality, the Borough seeks to provide proper maintenance of infrastructure to ensure a state of readiness during a storm event.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future storm events</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Loss of critical services and possible potential loss of life if services can not function properly to aid residents.</i>
<b>Cost estimate</b>	<i>\$350,000 for Vacuum/Jet Truck</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Providing critical sanitary and stormwater runoff services will avoid potential loss of life to those residents in need.</i>
<b>Technical</b>	<i>Technically feasible. Will continue to provide critical services.</i>
<b>Political</b>	<i>No apparent political issues.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>No adverse environmental effects.</i>
<b>Social</b>	<i>Borough of Allenhurst residents.</i>
<b>Administrative capability</b>	<i>Need at least 3 people to administer (After technical assistance from the State)</i>
<b>Local champion</b>	<i>Residents of Allenhurst</i>
<b>Other community objectives</b>	<i>Will provide services in accordance with the Office of Emergency Management duties.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Office of Emergency Management Program</i>
<b>Responsible party</b>	<i>OEM Director</i>
<b>Potential funding sources</b>	<i>HMGP, RFC, SRL and FMA. For 25% local match, in-kind services</i>
<b>Time line</b>	<i>Ongoing as funds are available</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Allenhurst</i>
<b>Community action number</b>	<b>3</b>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, storm surge, hurricane &amp; tropical storm, nor'easter</i>
<b>Risk finding</b>	<i>During storm events it is critical to maintain emergency equipment throughout the Borough. The OEM operation during storm events is paramount to the communities' health and welfare. The ability to provide emergency services during a storm event is critical to maintaining the communities' health and safety.</i>
<b>Action category</b>	<i>Structure/ Infrastructure</i>
<b>Action type</b>	<i>Building Structure for OEM Equipment</i>
<b>Action description</b>	<i>To maintain police, fire and medical EMS services throughout the municipality, the Borough seeks to provide a centralized building for critical OEM equipment. Currently this equipment is stored outside and subject to the daily elements which damages the effectiveness equipment in emergency events.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future storm events</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Loss of critical services and possible potential loss of life if services can not function properly to aid residents.</i>
<b>Cost estimate</b>	<i>\$1,000,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Providing OEM Equipment building is essential for equipment maintenance and keep a 'Steady State of Readiness'</i>
<b>Technical</b>	<i>Technically feasible. Will provide centralized staging area for critical services during storm events</i>
<b>Political</b>	<i>No apparent political issues.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>No adverse environmental effects.</i>
<b>Social</b>	<i>Borough of Allenhurst residents.</i>
<b>Administrative capability</b>	<i>Need at least 3 people to administer (After technical assistance from the State)</i>
<b>Local champion</b>	<i>Residents of Allenhurst</i>
<b>Other community objectives</b>	<i>Will provide services in accordance with the Office of Emergency Management duties.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Office of Emergency Management Program</i>
<b>Responsible party</b>	<i>Borough Engineer and OEM Director</i>
<b>Potential funding sources</b>	<i>HMGP, RFC, SRL and FMA. For 25% local match, in-kind services</i>
<b>Time line</b>	<i>Ongoing as funds are available</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Allenhurst</i>
<b>Community action number</b>	<i>4</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, storm surge, hurricane &amp; tropical storm, nor'easter</i>
<b>Risk finding</b>	<i>During storm events it is critical to maintain emergency services throughout the Borough. To maintain these services emergency power is needed until primary power source is restored.</i>
<b>Action category</b>	<i>Structure/ Infrastructure</i>
<b>Action type</b>	<i>Emergency Generators</i>
<b>Action description</b>	<i>To maintain police, fire and medical service throughout the municipality, the Borough seeks to provide temporary power for Borough Hall, and the Fire Station. The Office of Emergency Management and a Central Command is within Borough Hall. Likewise, the Fire House is utilized by the EMS employees, and as a evacuation center for residents in need of safety.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future storm events</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Loss of critical services and possible potential loss of life if services can not function properly to aid residents.</i>
<b>Cost estimate</b>	<i>\$40,000 each</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Providing temporary power to critical services will avoid potential loss of life to those residents in need.</i>
<b>Technical</b>	<i>Technically feasible. Will provide critical power until primary power is restored.</i>
<b>Political</b>	<i>No apparent political issues.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>No adverse environmental effects.</i>
<b>Social</b>	<i>Borough of Allenhurst residents.</i>
<b>Administrative capability</b>	<i>Need at least 3 people to administer (After technical assistance from the State)</i>
<b>Local champion</b>	<i>Residents of Allenhurst</i>
<b>Other community objectives</b>	<i>Will provide services in accordance with the Office of Emergency Management duties.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Office of Emergency Management Program</i>
<b>Responsible party</b>	<i>OEM Director</i>
<b>Potential funding sources</b>	<i>HMGP, RFC, SRL and FMA. For 25% local match, in-kind services</i>
<b>Time line</b>	<i>Ongoing as funds are available</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Allenhurst</i>
<b>Community action number</b>	<i>5</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, storm surge, hurricane &amp; tropical storm, nor'easter</i>
<b>Risk finding</b>	<i>During storm events it is critical to maintain emergency equipment throughout the Borough. The OEM operation during storm events is paramount to the communities' health and welfare. The ability to provide emergency services during a storm event is critical to maintaining the communities' health and safety.</i>
<b>Action category</b>	<i>Structure/ Infrastructure</i>
<b>Action type</b>	<i>Building Structure for OEM Command Center/ Facility Equipment</i>
<b>Action description</b>	<i>To maintain police, fire and medical EMS services throughout the municipality, the Borough seeks to provide a centralize building for critical OEM for command. Currently the borough does not have proper facilities to effectively serve as a Borough Command Center.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future storm events</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Loss of critical services and possible potential loss of life if services can not function propoerly to aid residents.</i>
<b>Cost estimate</b>	<i>\$1,500,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Providing OEM Command building is essential for a 'Steady State of Readiness'</i>
<b>Technical</b>	<i>Technically feasbile. Will provide centralize staging area for critical services during storm events</i>
<b>Political</b>	<i>No apparent political issues.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>No adverse environmental effects.</i>
<b>Social</b>	<i>Borough of Allenhurst residents.</i>
<b>Administrative capability</b>	<i>Need at least 3 people to administer (After technical assistance from the State)</i>
<b>Local champion</b>	<i>Residents of Allenhurst</i>
<b>Other community objectives</b>	<i>Will provide services in accordance with the Office of Emergency Management duties.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Office of Emergency Management Program</i>
<b>Responsible party</b>	<i>Borough Engineer and OEM Director</i>
<b>Potential funding sources</b>	<i>HMGP, RFC, SRL and FMA. For 25% local match, in-kind services</i>
<b>Time line</b>	<i>Ongoing as funds are available</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Allenhurst</i>
<b>Community action number</b>	6
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Storm surge, flooding, hurricanes, tropical storms, nor'easters, wave action, winter storms
<b>Risk finding</b>	Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	Protect Structures
<b>Action description</b>	Elevation and/or Acquisition of Floodprone Residential Structures, with particular focus on those in our community that are on FEMA's Repetitive Loss List and Severe Repetitive Loss List. New Jersey is committed to continuing the reduction of RL and SRL properties in the State; in turn, they have assigned a high priority to mitigating SRL and RL properties in the State Hazard Mitigation Plan. We are committed to supporting these projects as interested homeowners come forward and will support such homeowners, despite the loss in tax revenue, because we recognize the importance of making our community more disaster-resistant and reducing the financial burden of repetitive flooding in our community.
<b>Existing, future &amp;/or NA</b>	Existing
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Properties on FEMA's RL list have already incurred flood-related damage on two occasions, in which the cost of the repair, on average, equaled or exceeded 25% of the market value of the structure at the time of each such flood event. Properties on FEMA's SRL list have already incurred flood related damage (i) For which four or more separate claims payments have been made under flood insurance coverage with the amount of each such claim exceeding \$5,000, and with the cumulative amount of such claims payments exceeding \$20,000; or (ii) For which at least two separate claims payments have been made under such coverage, with the cumulative amount of such claims exceeding the market value of the insured structure. While losses avoided by elevating or acquiring properties on FEMA's RL and SRL lists are unquantifiable until specific interested homeowners come forward, they would meet these criterion by definition, at a minimum.
<b>Cost estimate</b>	Project costs are unquantifiable at this time. They would depend on the particular home(s) in question, and the nature of the project the homeowner is interested in (acquisition, or elevation).
<b>Cost effectiveness (i.e., benefit/cost)</b>	Because our RL and SRL properties have incurred so much damage historically, it is highly probably that mitigating these properties would be cost effective. Specific determinations of cost-effectiveness would be done in the future on a case by case basis as interested homeowners come forward and project details are specified.
<b>Technical</b>	Elevation and acquisition are both technically feasible project types
<b>Political</b>	Our political leadership supports this type of project
<b>Legal</b>	While the municipality does not own the structures in question, we fully support the homeowners in moving forward
<b>Environmental</b>	No environmental impacts are anticipated at this time; this would be confirmed as specific homeowners come forward and their property details are reviewed. It is likely that environmental impacts would be positive, as household hazardous wastes are no longer introduced into floodwaters.
<b>Social</b>	No particular social group in our community is likely to be disproportionately impacted by this project; this would be re-evaluated as particular interested homeowners come forward.
<b>Administrative capability</b>	Our municipality has the administrative capabilities to manage an elevation and/or acquisition project
<b>Local champion</b>	affected homeowners, elected officials
<b>Other community objectives</b>	Improve and protect lifestyles of residents; reduction of costly property damage; resiliency; floodplain management; capital improvements
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	Homeowners; Mayor; Council; Administrator; Engineer; local ordinance; Hazard Mitigation Plan
<b>Responsible party</b>	Mayor and Council
<b>Potential funding sources</b>	FEMA hazard mitigation grant funding streams (i.e., HMGP, FMA, etc)
<b>Time line</b>	This is projected to be an ongoing type of activity, with our municipality supporting interested parties as they come forward.
<b>Reporting on Progress</b>	
<b>Action progress status</b>	New action

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Allentown Borough</i>
Community action number	<i>1</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding during periods of high rain and severe storms such as nor'easters, hurricanes and tropical storms, and thunderstorms; Dam failure</i>
Risk finding	<i>Route 524 in the vicinity of Conines Millpond is subject to flooding.</i>
<b>Describing the Action</b>	
Action category	<i>Structure and infrastructure projects.</i>
Action type	<i>Improve drainage of Conines Millpond Dam</i>
Action description	<i>Location: The dam under County Rt. 524 and bridge U-12. Description: Clearing any debris deposited near the floodgate to facilitate the movement of water from the drainage out of Coninew Millpond. Eliminating debris from the flood gates under bridge U-12 on the dam will prevent flooding over the roadway and surrounding properties.</i>
Existing, future &/or NA	<i>It would protect both existing and future development (both commercial and private) along South Main St.</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>This action should greatly reduce or possibly stop all potential flooding in this area. It is estimated to eliminate about \$50,000 in flood losses each year.</i>
Cost estimate	<i>between \$500 and \$2000 per year.</i>
Cost effectiveness (i.e., benefit/cost)	<i>The action is very effective. ( Losses avoided are about \$50,000 annually , and costs are only about \$500 to \$2000 annually.)</i>
Technical	<i>the action is feasible.</i>
Political	<i>The action is supported by both the public and the politicians.</i>
Legal	<i>We have the authority.</i>
Environmental	<i>Unknown at this time.</i>
Social	<i>It will not impact either segment of the population.</i>
Administrative capability	<i>Unknown at this time.</i>
Local champion	<i>Unknown at this time.</i>
Other community objectives	<i>The project impacts both economic and environmental quality in the area.</i>
<b>Implementing the Action</b>	
Priority	<i>Medium</i>
Local planning mechanism	<i>Local elected officials will need to determine the way this project will be implimented.</i>
Responsible party	<i>Deputy OEM Allentown Borough</i>
Potential funding sources	<i>Local budget and grants</i>
Time line	<i>Unknown at this time.</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Allentown Borough</i>
<b>Community action number</b>	2
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding during times of high rain and severe storms such as nor'easters, hurricanes, and thunderstorms.</i>
<b>Risk finding</b>	<i>During periods of heavy rainfall, Doctors Creek and Indian Run have overflowed their banks and backed up the municipality's drainage system, which causes flooding of the street and adjacent properties.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and infrastructure projects</i>
<b>Action type</b>	<i>Improving drainage of the existing sewer system on primary county roads within Allentown Borough</i>
<b>Action description</b>	<i>Location: The municipal sewer system that travels along side and underneath Rt 524 and Rt 539 in Allentown Borough. Clearing any debris deposited by natural and man made refuse that collects in the openings and drainage areas of the system.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>This action should greatly reduce all potential flooding in the existing drainage system. It is estimated to eliminate about \$1000 in flood losses each year. Also would benefit safety of motorists and pedestrians alike. Would prevent possible motor vehicle crashes.</i>
<b>Cost estimate</b>	<i>between \$500 and \$1500 per year.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>The action is very cost effective. (Losses avoided are about 2000 annually and bodily injuries suffered for potential MV crashes. Cost would only be \$500 to \$1500 annually.</i>
<b>Technical</b>	<i>The action is feasible</i>
<b>Political</b>	<i>The action is supported by both the public and the politicians</i>
<b>Legal</b>	<i>We have the authority.</i>
<b>Environmental</b>	<i>Unknown at this time.</i>
<b>Social</b>	<i>It will not impact either segment of the population adversely.</i>
<b>Administrative capability</b>	<i>Unknown at this time.</i>
<b>Local champion</b>	<i>Unknown at this time.</i>
<b>Other community objectives</b>	<i>The project impacts both economic and environmental quality of the area.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>Local elected officials will need to determine the way this project will be implemented</i>
<b>Responsible party</b>	<i>Deputy OEM Allentown Borough</i>
<b>Potential funding sources</b>	<i>Local budget and grants</i>
<b>Time line</b>	<i>Unknown at this time.</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>new project</i>

## Action Worksheet

<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>City of Asbury Park</i>
<b>Community action number</b>	<i>1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Need for replacement back-up generator at City <b>Wastewater Treatment Plant</b> Facility. Lack of total power in the City's <b>Senior Center Building</b> - Community Relief Center during blackout periods. Existence of very limited power in <b>City Hall</b> - OEM Command Center.</i>
<b>Risk finding</b>	<i>During Super Storm Sandy: <b>Wastewater Treatment Plant Facility's</b> existing generator provided power to limited systems for approximately 7 days before cutting out. Upon cut-out, sewage began to back-up until nearly the point of having to discharge into to the Atlantic Ocean when the generator was able to be re-started limitedly until the power grid came back on. Existing generator needs replacement and an upgrade in size. <b>City Hall houses both the Police Station and OEM Command Center.</b> The existing generator ran very limited power systems that were barely enough to operate our OEM command center. The existing generator is severely undersized for the current and future demand of this building. <b>Senior Center Building</b> served as a <b>relief center</b> for a significant portion of the population of Asbury Park. Information, hot/cold food, blankets and other support services were routinely distributed at the center until shortly after the entire City was restored with power.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Human Life and Natural Resource, Structure and Infrastructure Project</i>
<b>Action type</b>	<i>Preservation of public health/safety, structures and natural resources</i>
<b>Action description</b>	<i>Replacement and upgrading overall emergency back-up power capabilities at crucial City owned facilities as described herein. All three facilities will require the purchase and installation of a properly sized diesel powered back-up generator, installation of a new automatic transfer switch at the Senior Building, replacement of existing transfer switches at City Hall and Wastewater Treatment plant; and permitting/installation of above ground diesel storage tanks at Senior Building and City Hall.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Wastewater Treatment Plant Generator Replacement/Upgrade - avoiding severe raw sanitary sewage flooding to the waterfront streets and all households and businesses located in upstream neighborhoods within the first 10 blocks west of the shore, from north to south across the City, thereby minimizing severe danger to public health, safety, sanitary sewage collection systems, sanitary treatment systems structures and sewer infrastructure. Citywide environmental ecosystem would be spared catastrophic damages due to sanitary flooding. City Hall and Senior Center losses would be limited to severe inconvenience of public during blackouts including deterioration of health and potential loss of life (difficult to put a number on). Total losses avoided are estimated to be \$200 million. Over a 50 year project life, total benefits are about \$4 million</i>
<b>Cost estimate</b>	<i>\$1 million (with a useful life of 35 years, this is about \$29,000 per year)</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be very cost effective, with benefits of \$200 million and costs of \$1 million.</i>
<b>Technical</b>	<i>Absolutely so long as the funding will be made available to accomplish it.</i>
<b>Political</b>	<i>Yes there is overall public support and political will to support the action.</i>
<b>Legal</b>	<i>Asbury Park has the authority to implement the action.</i>
<b>Environmental</b>	<i>The potential environmental impacts of the action are all positive as they will enhance the ecology of the Wesley Lake area while simultaneously providing much needed mitigation to storm events. The action will comply with all environmental regulations.</i>
<b>Social</b>	<i>The proposed action will not affect existing neighborhoods, will not break up voting districts and will not cause the relocation of low income residents.</i>
<b>Administrative capability</b>	<i>Outside help may be needed administratively to supplement the implementation and maintain it.</i>
<b>Local champion</b>	<i>No one single advocate has been identified as of yet.</i>
<b>Other community objectives</b>	<i>This action will present a viable capital improvement, spur economic development, greatly serve as an environmental benefit and further preserve the Sunset Lake open space.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Plans and specifications initially for construction, then maintenance plan for DPW.</i>
<b>Responsible party</b>	<i>Director of Engineering and Public Works</i>
<b>Potential funding sources</b>	<i>FEMA, HMGP, NRCS, CDBG</i>
<b>Time line</b>	<i>Assuming full funding as of 1/1/15 - complete by 6/30/16</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>City of Asbury Park</i>
<b>Community action number</b>	<i>2</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding of Sunset Lake and Surrounding Areas (flooding, hurricane and tropical storm, nor'easters)</i>
<b>Risk finding</b>	<i>Floodplains generally surround Deal Lake, Sunset Lake, and Wesley Lake. Bulkheads at Sunset Lake and Wesley Lake are in need of mitigation; sediment accumulation limits storage. Lack of storage volume and properly defined edges in Sunset Lake. The lake serves as a large drainage basin for a fairly large area of the City, before it discharges into Deal Lake via under ground piping.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Natural Resource Protection, Structure and Infrastructure project</i>
<b>Action type</b>	<i>Drainage improvement and open space conservation</i>
<b>Action description</b>	<i>Replace all bulkheads in kind and deepening where needed, install an adjustable outlet structure on the lake and dredge the entire lake approximately 2-3' deep throughout while considering the installation of a deeper center channel for additional storage. This action will serve to provide additional storage capacity within Sunset Lake thereby allowing a larger volume of storm precipitation to accumulate in the lake before breaching the edge.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>This action would potentially decrease the chances of serious flooding on the surrounding roadways minimizing danger to public welfare and damage to surrounding structures due to flooding. During Sandy there were damages to public municipally owned property within the area as well as some private property in the immediate vicinity. Losses avoided are estimated to be about \$300,000 per year. Over a 40 year project life, total benefits are about \$12M.</i>
<b>Cost estimate</b>	<i>\$3.5M (with a useful life of 40 years, this is about \$87,500 per year)</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective with benefits of \$12M and costs of only \$3.5M.</i>
<b>Technical</b>	<i>Absolutely so long as the funding will be made available to accomplish it.</i>
<b>Political</b>	<i>Yes there is overall public support and political will to support the action.</i>
<b>Legal</b>	<i>Asbury Park has the authority to implement the action.</i>
<b>Environmental</b>	<i>The potential environmental impacts of the action are all positive as they will enhance the ecology of the Sunset Lake area while simultaneously providing mitigation to storm events. The action will comply with all environmental regulations.</i>
<b>Social</b>	<i>The proposed action will not affect existing neighborhoods, will not break up voting districts and will not cause the relocation of low income residents.</i>
<b>Administrative capability</b>	<i>Outside help may be needed administratively to implement and maintain it.</i>
<b>Local champion</b>	<i>No one single advocate has been identified as of yet.</i>
<b>Other community objectives</b>	<i>This action will present a viable capital improvement, spur economic development, greatly serve as an environmental benefit and further preserve the Sunset Lake open space.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Plans and specifications initially for construction, then maintenance plan for DPW.</i>
<b>Responsible party</b>	<i>Director of Engineering and Public Works</i>
<b>Potential funding sources</b>	<i>FEMA, HMGP, NRCS, CDBG</i>
<b>Time line</b>	<i>Assuming full funding as of 1/1/15 - complete by 12/31/15</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>This action has been carried forward from the last version of the plan.</i>

## Action Worksheet

<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>City of Asbury Park</i>
<b>Community action number</b>	<i>3</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding of Wesley Lake, Surrounding Areas and Upstream Neighborhoods including parts of Neptune Township</i>
<b>Risk finding</b>	<i>Lack of storage volume, lack of a properly located automatic flood gate in Wesley Lake and repairs needed to the outfall. The lake serves as a large drainage basin for an area accounting for nearly 50% of the total area of the City, plus a section of inland Neptune Township and parts of the Ocean Grove section of Neptune Township, before it discharges into the Atlantic Ocean via under ground piping beneath the beach.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Natural Resource Protection, Structure and Infrastructure Project</i>
<b>Action type</b>	<i>Drainage improvement, open space conservation and protection of nearby commercial and residential structures within the City of Asbury Park (lower elevation than Ocean Grove / Neptune Township)</i>
<b>Action description</b>	<i>Replace bulkheads in kind and deepening where needed, reinforce concrete retaining walls as needed to allow for deepening of lake bottom, replace existing gate with an automatic adjustable outlet structure, while considering the installation of a deeper center channel with lower level gate for additional storage and faster emptying prior to arrival of impending storms.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>This action would potentially decrease the chances of serious flooding on the surrounding roadways and upstream neighborhoods that are prone to collateral flooding, thereby minimizing danger to public welfare and damage to structures and sewer infrastructure due to flooding. Losses avoided are estimated to be about \$500,000 per year. Over a 50 year project life, total benefits are about \$25M.</i>
<b>Cost estimate</b>	<i>\$12 million (with a useful life of 50 years, this is about \$240,000 per year)</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits of \$25 million and costs of \$12 million.</i>
<b>Technical</b>	<i>Absolutely so long as the funding will be made available to accomplish it.</i>
<b>Political</b>	<i>Yes there is overall public support and political will to support the action.</i>
<b>Legal</b>	<i>Asbury Park has the authority to implement the action.</i>
<b>Environmental</b>	<i>The potential environmental impacts of the action are all positive as they will enhance the ecology of the Wesley Lake area while simultaneously providing much needed mitigation to storm events. The action will comply with all environmental regulations.</i>
<b>Social</b>	<i>The proposed action will not affect existing neighborhoods, will not break up voting districts and will not cause the relocation of low income residents.</i>
<b>Administrative capability</b>	<i>Outside help may be needed administratively to supplement the implementation and maintain it.</i>
<b>Local champion</b>	<i>No one single advocate has been identified as of yet.</i>
<b>Other community objectives</b>	<i>This action will present a viable capital improvement, spur economic development, greatly serve as an environmental benefit and further preserve the Sunset Lake open space.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Plans and specifications initially for construction, then maintenance plan for DPW.</i>
<b>Responsible party</b>	<i>Director of Engineering and Public Works</i>
<b>Potential funding sources</b>	<i>FEMA, HMGP, NRCS, CDBG</i>
<b>Time line</b>	<i>Assuming full funding as of 1/1/15 - complete by 6/30/16</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>This action has been carried forward from the last version of the plan.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>City of Asbury Park</i>
<b>Community action number</b>	4
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Storm surge, flooding, hurricanes, tropical storms, nor'easters
<b>Risk finding</b>	Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	Protect Structures
<b>Action description</b>	Elevation of Floodprone Residential Structures. Approximately 75 structures.
<b>Existing, future &amp;/or NA</b>	Existing
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Losses avoided by this project are estimated to be over \$19 million.
<b>Cost estimate</b>	The cost of this project is estimated to be under \$10 million.
<b>Cost effectiveness (i.e., benefit/cost)</b>	This project is likely to be cost effective, with benefits of \$19 million and costs of \$10 million.
<b>Technical</b>	Elevation is technically feasible
<b>Political</b>	Our political leadership supports this type of project.
<b>Legal</b>	While the municipality does not own the structures in question, we fully support the homeowners in moving forward.
<b>Environmental</b>	No environmental impacts are anticipated as a result of elevating the homes.
<b>Social</b>	No particular social group in our community is likely to be disproportionately impacted by this project.
<b>Administrative capability</b>	Our municipality has the administrative capabilities to manage an elevation project.
<b>Local champion</b>	Affected homeowners.
<b>Other community objectives</b>	
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	Coordination of building permits and verification of proposed first floor elevations.
<b>Responsible party</b>	Construction Department
<b>Potential funding sources</b>	FEMA hazard mitigation grant funding streams (i.e., HMGP)
<b>Time line</b>	Work shall commence immediately upon approval of adequate funding and notification of the affected homeowners of funds available.
<b>Reporting on Progress</b>	
<b>Action progress status</b>	New

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>City of Asbury Park</i>
Community action number	5
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding of Deal Lake and Surrounding Areas (flooding, hurricane and tropical storm, nor'easters)</i>
Risk finding	<i>Floodplains generally surround Deal Lake, Sunset Lake, and Wesley Lake. Deal Lake's sediment accumulation limits storage. Lack of storage volume and an automated tide gate add to the flooding issues. The lake serves as a large drainage basin for large area of the City, before it discharges into the Atlantic Ocean via a long concrete underground flume. Sunset Lake drains into Deal Lake and the flooding of Deal can cause up stream flooding at Sunset Lake in certain instances.</i>
<b>Describing the Action</b>	
Action category	<i>Natural Resource Protection, Structure and Infrastructure project</i>
Action type	<i>Drainage improvement and open space conservation</i>
Action description	<i>Replace the existing tide gate with an automatic type with sensors to maintain the gate open for as long as possible before the Atlantic Ocean begins backing into the lake during extreme high tide or severe weather events. Dredge the entire lake east of the train bridge just west of Main St (Rt. 71) approximately 2' deeper throughout while considering the installation of a deeper center channel for additional storage. This action will serve to provide additional storage capacity within Sunset Lake thereby allowing a larger volume of storm precipitation to accumulate in the lake before breaching the edges.</i>
Existing, future &/or NA	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>This action would potentially decrease the chances of serious flooding on the surrounding roadways minimizing danger to public welfare and damage to surrounding structures due to flooding. During Sandy there were damages to public municipally owned property within the area as well as some private property in the immediate vicinity. Losses avoided are estimated to be about \$175,000 per year. Over a 40 year project life, total benefits are about \$7M.</i>
Cost estimate	<i>\$2.5M (with a useful life of 40 years, this is about \$62,500 per year)</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective with benefits of \$7M and costs of only \$2.5M.</i>
Technical	<i>Absolutely so long as the funding will be made available to accomplish it.</i>
Political	<i>Yes there is overall public support and political will to support the action.</i>
Legal	<i>Asbury Park and the Deal Lake Commission have the authority to implement the action.</i>
Environmental	<i>The potential environmental impacts of the action are all positive as they will enhance the ecology of the Deal Lake and Sunset Lake area while simultaneously providing mitigation to storm events. The action will comply with all environmental regulations.</i>
Social	<i>The proposed action will not affect existing neighborhoods, will not break up voting districts and will not cause the relocation of low income residents.</i>
Administrative capability	<i>Outside help may be needed administratively to implement and maintain it.</i>
Local champion	<i>Deal Lake Commission</i>
Other community objectives	<i>This action will present a viable capital improvement, spur economic development, greatly serve as an environmental benefit and further preserve the Deal Lake and Sunset Lake open space.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Plans and specifications initially for construction, then maintenance plan for the Departments of Public Works for the various municipalitites bordering Deal Lake and members of the Deal Lake Commission.</i>
Responsible party	<i>Director of Engineering and Public Works</i>
Potential funding sources	<i>FEMA, HMGP, NRCS, CDBG</i>
Time line	<i>Assuming full funding as of 1/1/16 - complete by 12/31/16</i>
<b>Reporting on Progress</b>	
Action progress status	<i>This is a new action.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>City of Asbury Park</i>
Community action number	<i>6</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>(flooding, hurricane and tropical storm, nor'easters)</i>
Risk finding	<i>Flooding of Southwest quadrant and other "pockets" of City streets While the storm collection systems located at the extreme south edge of the City from the western boundary to Wesley Lake near the eastern boundary were all reconstructed between 2009 and 2011, some of the branching systems that lead to the new systems are undersized or missing proper facilities in order to convey storm flow efficiently to the new systems causing severe backups and flooding.</i>
<b>Describing the Action</b>	
Action category	<i>Structure and Infrastructure project</i>
Action type	<i>Drainage improvement and Quality of Life preservation</i>
Action description	<i>Pinpoint all areas of flooding thereby identifying existing storm facilities and their respective routes to the new systems. Reconstruct all storm lines and structures from the flooded areas leading and connecting to the new systems taking the path of least resistance while conveying the most possible storm flow.</i>
Existing, future &/or NA	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>This action would potentially decrease the continuous flash flooding that occurs in certain isolated areas of the City and its impact on the surrounding roadways, minimizing danger to public welfare and damage to surrounding structures due to flooding. Even during medium sized short duration rain storms, serious flash flooding measuring in excess of 3' of inundation without close proximity to a flooded waterway can be witnessed at various areas of the City. Over time the damage being caused to the municipally owned sanitary /storm systems in addition to sidewalks, street trees, other public utilities as well as many private properties can be minimized and possibly avoided overall. Losses avoided are estimated to be about \$1,200,000 per year. Over a 50 year project life, total benefits are about \$60M.</i>
Cost estimate	<i>\$18M (with a useful life of 50 years, this is about \$360,000 per year)</i>
Cost effectiveness	<i>This project is likely to be cost effective with benefits of \$60M and costs of only \$18M.</i>
Technical	<i>Absolutely so long as the funding will be made available to accomplish it.</i>
Political	<i>Yes there is overall public support and political will to support the action.</i>
Legal	<i>Asbury Park has the authority to implement the action.</i>
Environmental	<i>The potential environmental impacts of the action are all positive as they will enhance the quality of life in affected areas, minimizing public health hazards, while simultaneously providing mitigation to storm events. The action will comply with all environmental regulations.</i>
Social	<i>The proposed action will not affect existing neighborhoods in an impactful manner, will not break up voting districts and will not cause the relocation of low income residents.</i>
Administrative capability	<i>Outside help may be needed administratively to implement and maintain it.</i>
Local champion	<i>No one single advocate has been identified as of yet.</i>
Other community objectives	<i>This action will present a viable capital improvement, spur economic development and greatly serve as an environmental benefit.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Plans and specifications initially for construction, then maintenance plan for DPW.</i>
Responsible party	<i>Director of Engineering and Public Works</i>
Potential funding sources	<i>FEMA, HMGP, NRCS, CDBG</i>
Time line	<i>Assuming full funding as of 1/1/16 - complete by 1/1/18</i>
<b>Reporting on Progress</b>	
Action progress status	<i>This action has been carried forward from the last version of the plan.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Atlantic Highlands</i>
<b>Community action number</b>	<i>1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding, landslides, and severe storms such as hurricanes, tropical storms, and nor'easters</i>
<b>Risk finding</b>	<i>Hillside Road and Paper Street have issues with high velocity overland flows (outside of mapped foodplains) that cause both slope failure and flooding. If the drainage of water continues to erode Paper Street, the downhill properties will be in danger of failure as will the residents in the dwelling. If the wash out is severe, there is a possibility that the roadway will wash out and landlock over 12 homes. On Hillside Road, municipal and four private properties are at risk.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure Project</i>
<b>Action type</b>	<i>Soil Stabilization through proper drainage</i>
<b>Action description</b>	<i>Design and construct proper drainage to eliminate the high velocity overland flows that cause slope failure and flooding - Hillside Road, and Paper Street..Phase II continues to carry the stormwater from the end of Hillside Road, down to Bayside Drive via CMP. All CMP will be on Borough property or in easements with the neighbors. A scour pad at the bottom will dissipate the water. This work will alleviate the pressure from stormwater along the hillside. The hillside has become progressively unstable. This action will protect structure, vacant land and roadway at bottom of hillside.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and new</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Losses avoided by the project are estimated to be approximately \$ 2 million dollars</i>
<b>Cost estimate</b>	<i>\$950,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Yes. This project is likely to be cost effective, with benefits on the order of \$2 million dollars and costs of only \$950,000.</i>
<b>Technical</b>	<i>Yes. We, at a minimum, the roadway protected. This is a fragile area of hills and erosion.</i>
<b>Political</b>	<i>Yes. Residents of this area are all in favor or a solid repair/fix Yes. The Mayor and Council understand the importance of this project but they do not have funds to commit.</i>
<b>Legal</b>	<i>Yes</i>
<b>Environmental</b>	<i>It is a steep slope area which is governed by Borough Ordinance. This would take great care in engineering a permanent repair. It will have to comply with environmental rules.</i>
<b>Social</b>	<i>This will effect some of the residents of Bayside Drive but have an overall effect on the Borough. The homes along the water are very valuable as they pay a great deal of property taxes.</i>
<b>Administrative capability</b>	<i>The Borough would need engineering and financial assistance. The Borough could manage the bid and other limited resources</i>
<b>Local champion</b>	<i>We believe the DEP will support as will our local Environmental Commission</i>
<b>Other community objectives</b>	<i>This will also allow the Environmental Commission to finish a walking trail which will connect the Bayside/Henry Hudson Trail to Lenape Woods which is a local walking trail preserve</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Engineering, Building Department, Finance</i>
<b>Responsible party</b>	<i>Borough of Atlantic Highlands - Adam Hubeny - Administrator</i>
<b>Potential funding sources</b>	<i>Local budget, grants, open space</i>
<b>Time line</b>	<i>2016 - strictly a financing issue</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>This has been carried over from the last version of the plan. We have some very preliminary plans and a cost estimate but funding is holding this up.</i>

## Action Worksheet

<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Atlantic Highlands</i>
<b>Community action number</b>	2
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding</i>
<b>Risk finding</b>	<i>Flooding is an issue at Fireman's Memorial Field on West Highland Avenue (south of Avenue B). This specific location is adjacent to the Many Mind Creek. The site is owned by town firemen's association. 3 baseball fields, converted for football in fall, soccer as well. While damages to the fields themselves are an issue, the affected area also includes the following improvements: bleachers, dugouts, electric scoreboards, PA system, night lights, cinder track at border and beside Many Mind Creek, tot lot near Leonard Avenue entrance, parking lot, chute, slide, monkey bars, climbing, other devices, field house with restrooms, and concession stand. In addition, the streets and surrounding homes are effected on Ave A. South Ave, Center Ave, Bay Ave and Harbor View Drive. The creek was desnagged in these specific area since the initial version of the plan, but flooding problems continue. In addition, the bridge hasnt changed thus the continuance of problems.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure Projects</i>
<b>Action type</b>	<i>Study creek and tidal waters including Flood Risk Reduction Infrastructure Improvements along the entire Many Mind Creek from Highway 36 to the Snady Hook Bay. Construct flood control measures in appropriate</i>
<b>Action description</b>	<i>Plan would be to take the Fllod Risk Reduction suggestion and/or actions which may include the installation of gabion walls and drive sheathing into the ground to create a channel for water to follow. No further building will be allowed</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Damages avoided are estimated to be on the order of \$1 million dollars</i>
<b>Cost estimate</b>	<i>1 million dollars.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Yes - This will save the Borough money by eliminating constant repairs that have to be done in order to maintain the playing fields, surrounding street, overtime costs for street department and/or police to close roads. This project is likely to be cost effective, with benefits on the order of \$1 million dollars and costs of only \$1million.</i>
<b>Technical</b>	<i>Yes - It may be possible to eliminate the sheating on one side of the creek</i>
<b>Political</b>	<i>Yes. Residents of this area are all in favor of a solid repair/fix Yes. The Mayor and Council understand the importance of this project but they do not have funds to commit.</i>
<b>Legal</b>	<i>Yes but there are DEP permits required</i>
<b>Environmental</b>	<i>This specific site is part of a remediation clean up by NJ Natural Gas Co. The DEP is overseeing the clean up. Permitting will ne necessary and the handling of materials will require the Hazwoper 40 training.</i>
<b>Social</b>	<i>This action will actually assist several area's of the Borough so as to limit the amount of flooding in areas. There are approximately 12 businesses that are along this portion of the creek which will now have limited flood damage .</i>
<b>Administrative capability</b>	<i>The Borough would need engineering, permitting and financial assistance. The Borough could manage the bid and other limited resources</i>
<b>Local champion</b>	<i>We believe the DEP will support as will our local Enviromental Commissionand Fire Department</i>
<b>Other community objectives</b>	<i>This will also allow the Borough and Environmental Commission to finish a walking greenway trail which will run from Highway 36 to the Sandy Hook Bay. This is in line with a 2008 study that was conducted along the M any Mind Creek Greenway.The sheathing will also keep people out of the creek, improving safety at this site where at any one day can be occupied by over 350 people.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Engineering, Building Department, Finance</i>
<b>Responsible party</b>	<i>Borough of Atlantic Highlands - Adam Hubeny - Administrator</i>
<b>Potential funding sources</b>	<i>Local budget, grants, open space</i>
<b>Time line</b>	<i>2016 - This is a financing issue and permitting issue</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>This has been carried over from the last version of the plan. We have a 2008 Weston study of the creek greenway but no cost basis at this time.</i>

## Action Worksheet

Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Atlantic Highlands</i>
Community action number	3

### Assessing the Risk

Hazard(s) addressed	<i>Landslides</i>
Risk finding	<i>Slope stabilization is needed on Bayside Drive; this is an area of historic slump blocks (a type of landslide where the moving material moves in a block, more or less), particularly where hillsides are disturbed during construction activities, and or times where the soil is saturated and there is increased surface runoff. Roadway will be washed away landlocking 12 single family dwellings.</i>

### Describing the Action

Action category	<i>Structure and Infrastructure Projects</i>
Action type	<i>Slope Stabilization</i>
Action description	<i>Plan would be to design a fix for hillside stabilization along a 400+ foot of Bayside Drive. This would include a Nail Lancer type of fix where the hillside is shored up to prevent slump blocking and future landslides and failure of the slope.</i>
Existing, future &/or NA	<i>Existing - Project protects existing roadway, and reduces the likelihood of existing homes becoming landlocked, though the slope itself is an unbuildable area and nothing would be built there even with this action.</i>

### Evaluating the Action

Losses avoided (i.e., benefits)	<i>This action will improve a very unstable area along Bayside Drive which at the toe is at the foot of the Sandy Hook Bay. This will allow continued access for 12 homes that are beyond this specific area. Losses avoided are estimated to be approximately \$5 million dollars.</i>
Cost estimate	<i>\$1 million dollars. This will maintain the roadway that leads to 12 homes on Bayside Drive. These homes are some of the higher paying tax properties in town.</i>
Cost effectiveness (i.e., benefit/cost)	<i>Yes - This will save the Borough money by eliminating the failure of the roadway putting people in jeopardy. This project is likely to be cost effective, with benefits of roughly \$5 million and costs of only \$1 million.</i>
Technical	<i>Yes - we believe this will be very beneficial and technically feasible</i>
Political	<i>Yes. Residents of this area are all in favor of a solid repair/fix. Yes. The Mayor and Council understand the importance of this project but they do not have funds to commit.</i>
Legal	<i>Yes but there are potentially DEP permits required</i>
Environmental	<i>This specific area is located in an environmentally sensitive area and in a steep slope zone. Area has to be monitored and worked on in a very careful way.</i>
Social	<i>This action will actually assist 12 homes on Bayside Drive. This repair will allow the residents to feel they are more connected to the community now that the roadway would not be in the state it is now.</i>
Administrative capability	<i>The Borough would need engineering, permitting and financial assistance. The Borough could manage the bid and other limited resources</i>
Local champion	<i>We believe the DEP will support as will our local Environmental Commission and the residents of Bayside Drive</i>
Other community objectives	<i>This will bolster the steep slope / hillside along Bayside Drive. This will bring much needed stability to the area and will allow residents continued access to their homes as the other end of the road is closed off due to landslide issues.</i>

### Implementing the Action

Priority	<i>High</i>
Local planning mechanism	<i>Engineering, Building Department, Finance</i>
Responsible party	<i>Borough of Atlantic Highlands - Adam Hubeny - Administrator</i>
Potential funding sources	<i>Local budget, grants, open space</i>
Time line	<i>2016 - This is a financing issue and permitting issue</i>

### Reporting on Progress

Action progress status	<i>This has been carried over from the last version of the plan. We are continuing to monitor the street and have received a price quote to complete the work.</i>
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## Action Worksheet

<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Atlantic Highlands</i>
<b>Community action number</b>	4
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Storm surge, flooding, hurricanes, tropical storms, nor'easters
<b>Risk finding</b>	Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	Protect Structures
<b>Action description</b>	Elevation of Floodprone Residential Structures. At the present time there are five families that are not able to live in their homes due to severe flooding that took place along the Many Mind Creek. These homes are located on South Avenue, Ave A, Avenue B and Center Avenue. It has been suggested that these 5 homes be raised above the flood elevation in their particular area.
<b>Existing, future &amp;/or NA</b>	Existing
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Losses avoided by this project are estimated to be \$ 1 million +.
<b>Cost estimate</b>	The cost of this project is estimated to be \$ 407,750.00.
<b>Cost effectiveness (i.e., benefit/cost)</b>	This projects is likely to be cost effective, with benefits of over \$1 million dollars and costs of \$407,750.00.
<b>Technical</b>	Elevation is technically feasible
<b>Political</b>	Our political leadership supports this type of project 100%
<b>Legal</b>	While the municipality does not own the structures in questions, we fully support the homeowners in moving forward.
<b>Environmental</b>	No environmental impacts are anticipated as a result of elevating the homes.
<b>Social</b>	No particular social group in our community is likely to be disproportionately impacted by this project.
<b>Administrative capability</b>	Our municipality has the administrative capabilities to manage an elevation project.
<b>Local champion</b>	affected homeowners, politicians and others
<b>Other community objectives</b>	The Borough is trying to reduce the flooding in this area and are working with the NJ DEP and Army Corps. We want residents to stay in their homes and not move from the area after each severe storm.
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	All work and issued to work through the Atlantic Highlands Building Department
<b>Responsible party</b>	Individual homeowner
<b>Potential funding sources</b>	FEMA hazard mitigation grant funding streams (i.e., HMGP)
<b>Time line</b>	Would like to move this forward immediately. Residents are ready to respond.
<b>Reporting on Progress</b>	
<b>Action progress status</b>	New

## Action Worksheet

<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Atlantic Highlands</i>
<b>Community action number</b>	5
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All Hazards</i>
<b>Risk finding</b>	<i>The Atlantic Highlands Water &amp; Sewer Utility is owned and operated by the Borough of Atlantic Highlands. Without the install and use of a generator, the water wells can't fill water holding tanks. They can only hold enough water to last for up to 2 days. Without the generator during a power failure, the Borough would be faced with unsanitary conditions throughout the Borough.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure Projects</i>
<b>Action type</b>	<i>Installation of a natural gas generator with transfer switch</i>
<b>Action description</b>	<i>A new natural gas generator will be installed at the 1 million gallon holding tank on Observatory Place. This will allow continued power to the water well for public health and safety purposes.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing &amp; future - Project protects existing and future development of residential and commercial properties.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>This action will make certain that homes and businesses serviced by the Atlantic Highlands water &amp; Sewer Utility maintain the distribution and receiving of potable water. Benefits are for public health and safety. Benefits are unquantifiable but are expected to be well in excess of project costs.</i>
<b>Cost estimate</b>	<i>\$70,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Yes - Without doing this work many people could become ill or seriously sick. Benefits are unquantifiable but are expected to be well in excess of project costs of only \$70k.</i>
<b>Technical</b>	<i>Yes - we believe this will be very beneficial and technically feasible</i>
<b>Political</b>	<i>Yes. Residents of this area are all in favor of a solid repair/fix Yes. The Mayor and Council understand the importance of this project but they do not have funds to commit.</i>
<b>Legal</b>	<i>Yes</i>
<b>Environmental</b>	<i>None known. Yes - the Borough would have to apply for an air quality permit from the NJ DEP</i>
<b>Social</b>	<i>This action will assist and continue to provide clean potable water to over 1900 homes who are serviced by the Utility.</i>
<b>Administrative capability</b>	<i>The Borough of Atlantic Highlands maintains a staff of 5 full time employees in the Water &amp; Sewer Utility.</i>
<b>Local champion</b>	<i>We believe the DEP will support this as will our local Environmental Commission, Mayor and Council and the residents of Atlantic Highlands</i>
<b>Other community objectives</b>	<i>This will bring much needed relief to our community, as a whole, when we experience frequent power outages during storms and unusual events.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Engineering, Building Department, Finance</i>
<b>Responsible party</b>	<i>Borough of Atlantic Highlands - Adam Hubeny - Administrator</i>
<b>Potential funding sources</b>	<i>Local budget, HMGP Grant, Monmouth County Working Group funding</i>
<b>Time line</b>	<i>Immediately - We have a public bid price on this and are ready to go upon commitment of funding.</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New Plan</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Atlantic Highlands</i>
<b>Community action number</b>	6
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All Hazards</i>
<b>Risk finding</b>	<i>The Atlantic Highlands Harbor Utility is owned and operated by the Borough of Atlantic Highlands. Without the install and use of a generator, during power outages, emergency vehicles i.e. police, fire, ems &amp; oem, can't refuel for continued 24/7 emergency use. In addition, the Harbor refuels the vessels or the New Jersey State Police and the US Coast Guard in times of emergency and need.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure Projects</i>
<b>Action type</b>	<i>Installation of a portable 100 KW diesel generator with transfer switch</i>
<b>Action description</b>	<i>A new portable 100 KW diesel generator will be on a trailer and transfer switch will be installed at the Harbor Office. This will allow continued power to the harbor office which will allow refueling for all emergency service vehicles and vessels. .</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing &amp; future - Project protects existing structure and infrastructure</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>This action will make certain that Atlantic Highlands receives the continued emergency service protection 24/7. This will allow continued police patrol, ems response and fire/rescue response to our 4,400 + residents via vehicle and/or vessel response. Benefits are unquantifiable, but are expected to be well in excess of project costs.</i>
<b>Cost estimate</b>	<i>\$62,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Yes - without doing this the Borough has to depend on 2 other gas stations in the Borough. Sunoco does not have diesel nor a generator and the Shell does not have a generator for pump operations.. Benefits are unquantifiable, but are expected to be well in excess of project costs of only \$62k.</i>
<b>Technical</b>	<i>Yes - we believe this will be very beneficial and technically feasible</i>
<b>Political</b>	<i>Yes. The Mayor &amp; Council and the Harbor Commissioners understand the importance of this project as does the police, fire, ems &amp; oem. They fully support this</i>
<b>Legal</b>	<i>Yes</i>
<b>Environmental</b>	<i>None known. Yes - the Borough would not have to apply for an air quality permit from the NJ DEP since this unit is mounted on a portable trailer</i>
<b>Social</b>	<i>This action will allow continued emergency services protection.</i>
<b>Administrative capability</b>	<i>Yes. The Borough of Atlantic Highlands maintains a harbor staff of 9 full time employees..</i>
<b>Local champion</b>	<i>We believe the DEP will support this as will our local Environmental Commission, Mayor and Council and the Commission as well as our residents.</i>
<b>Other community objectives</b>	<i>This will bring much needed planning assistance to our emergency services / community, as a whole, when we experience frequent power outages during storms and unusual events.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Engineering, Building Department, Finance</i>
<b>Responsible party</b>	<i>Borough of Atlantic Highlands - Adam Hubeny - Administrator</i>
<b>Potential funding sources</b>	<i>Local budget, HMGP Grant</i>
<b>Time line</b>	<i>Immediately - We have a public bid price on this and are ready to go upon commitment of funding</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New Plan</i>

## Action Worksheet

<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Atlantic Highlands</i>
<b>Community action number</b>	7
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All hazards</i>
<b>Risk finding</b>	<i>The Atlantic Highlands Water &amp; Sewer Utility just took on the responsibility of the Atlantic Highlands-Highlands Sewer Authority after it was dissolved as of 3/31/14. The Borough now controls the collection system (under the ground/roadways) and the pumphouse which is located on First Avenue. The product pumps from the pumphouse to the Township of Middletown Sewer Authority where the product is processed/treated. The Borough now services water and sewer services throughout the Borough. The former AHHRSA learned after Super Storm Sandy that the pumpstation needed to be flood proofed with bulkheading at the entrance door and garage door and they needed to install a bulkhead in front of the generator that keeps the plant up and running during power outages. If this facility is not protected, the Borough would be faced with unsanitary conditions as sewer product would free flow onto the roadways and into the waterways.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure Projects</i>
<b>Action type</b>	<i>Installation of bulkheading in doorways and around generator</i>
<b>Action description</b>	<i>Install bulkheading and flood proofing materials at door openings and around the generator to protect it from flood waters. This will allow continued power to the sewer wells that are pumped to TOMSA. This will protect public health and safety.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>This action will make certain that sewer operations throughout Atlantic Highlands will be maintain and the distribution system allowing product to get into the TOMSA gravity sewer lines will be maintain. Benefits are for public health and safety. Benefits are unquantifiable but are expected to be well in excess of project costs.</i>
<b>Cost estimate</b>	<i>\$40,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Yes - Without doing this work many people could become ill or seriously sick. Waterways will have sewer product flowing as will local roads. Benefits are unquantifiable but are expected to be well in excess of project cost of only \$40k.</i>
<b>Technical</b>	<i>Yes - we believe this will be very beneficial and technically feasible</i>
<b>Political</b>	<i>Yes. The Mayor and Council understand the importance of this project that is being touted by the Water &amp; Sewer Superintendent. .</i>
<b>Legal</b>	<i>Yes</i>
<b>Environmental</b>	<i>It will comply with all Environmental regulations and it will greatly reduce, if not totally eliminate any environmental future disaster. DEP would look</i>
<b>Social</b>	<i>This action will assist and protect all of the population in Atlantic Highlands and those surrounding municipalities that are on the sandy Hook Bay. This action will protect other towns and neighborhoods because it will reduce or eliminate the raw sewer flowing into the streets and nearby creek.</i>
<b>Administrative capability</b>	<i>Yes. The Borough of Atlantic Highlands maintains a staff of 5 full time employees in the Water &amp; Sewer Utility.</i>
<b>Local champion</b>	<i>We believe the DEP will support this as will our local Enviromental Commission, Mayor and Council and the residents of Atlantic Highlands</i>
<b>Other community objectives</b>	<i>This is a public health &amp; safety matter that our community will support.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Engineering, Building Department, Finance</i>
<b>Responsible party</b>	<i>Borough of Atlantic Highlands - Adam Hubeny - Administrator</i>
<b>Potential funding sources</b>	<i>Local budget, HMGP Grant, Monmouth County Working Group funding</i>
<b>Time line</b>	<i>Immediately upon commitment of funding</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New Plan</i>

## Action Worksheet

<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Avon By The Sea</i>
<b>Community action number</b>	<i>1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All Hazards</i>
<b>Risk finding</b>	<i>The Borough of Avon By The sea is exposed to hazards from Coastal storms including Hurricanes, as well as wind storms, blizzards and other severe weather events. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events. The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level of disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Public Education and Awareness Programs</i>
<b>Action type</b>	<i>Increase Hazard Education and Risk Awareness</i>
<b>Action description</b>	<i>Community Outreach: Development of an Emergency Preparedness resource within the Borough Library for use throughout the year by residents and visitors. Also: Web Site updates, social media bi-annual newsletter and community gatherings such as Nation Night Out.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Increased recognitions of hazards and potential impacts from severe weather events and other events will aid in protecting residents. Benefits are unquantifiable, but are expected to be higher than the cost of maintaining the information repository.</i>
<b>Cost estimate</b>	<i>Minimal cost with brochures from FEMA and other agencies as well as materials gathered by Borough staff.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Highly cost effective, with minimal investment residents can be better informed and more prepared for the impacts of events to their lives and homes. Losses avoided are expected to be more than the cost of maintaining the repository.</i>
<b>Technical</b>	<i>This action is technically feasible</i>
<b>Political</b>	<i>The Office of Emergency Management receives support from both the Public and the Elected Officials in the Borough.</i>
<b>Legal</b>	<i>The Borough of Avon By The Sea has the full legal authority to implement this action.</i>
<b>Environmental</b>	<i>There are no Environmental implications with this action.</i>
<b>Social</b>	<i>There are no Social implications with this action.</i>
<b>Administrative capability</b>	<i>Performed with in-house staff at no cost.</i>
<b>Local champion</b>	<i>OEM Deputy Coordinator in conjunction with Library director.</i>
<b>Other community objectives</b>	<i>There are no other objectives associated with this action.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>Annually the LEPC will discuss and impliment update as necessary.</i>
<b>Responsible party</b>	<i>OEM Deputy Coordinator and Library Director.</i>
<b>Potential funding sources</b>	<i>Funding for this action is very low. However, if funding is necessary it will be sought through grants or budget augmentation.</i>
<b>Time line</b>	<i>On-going; will require continuing effort</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward</i>

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<b>Your community name</b>	<i>Avon By The Sea</i>
<b>Community action number</b>	2
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding, wind, storm surge, hurricanes, tropical storms, nor'easters</i>
<b>Risk finding</b>	<i>The Borough of Avon By The Sea is exposed to hazards from coastal storms including hurricanes, as well as wind storms, blizzards and other severe weather events which leaves some of our buildings and facilities vulnerable. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events. Of particular concern are critical facilities in flood and/or surge hazard areas (police, fire, EMS, and the water treatment plant)</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure Projects</i>
<b>Action type</b>	<i>Protect Infrastructure and Critical Facilities</i>
<b>Action description</b>	<i>Review the vulnerability of municipal facilities to impacts from flooding, wind and related exposures and implement projects to reduce these vulnerabilities.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Future losses from flooding and storm surge should be avoided as structures have been elevated and made more flood resistant. Losses avoided by the proposed actions are estimated to be on the order of \$7,638,225</i>
<b>Cost estimate</b>	<i>Cost estimates on DPW facility still being developed, overall investment to exceed \$3.0 million when all improvements completed</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Cost effective as properties damaged during Sandy to be rebuilt with flood protection incorporated into the design (benefits on the order of \$7,638,225 and costs on the order of \$3.0 million).</i>
<b>Technical</b>	<i>Design work with Engineering firms and Architects providing technical guidance to support in house staff</i>
<b>Political</b>	<i>Elected officials have been highly supportive of these efforts</i>
<b>Legal</b>	<i>There is no potential legal impact as these facilities are own by the Borough.</i>
<b>Environmental</b>	<i>Where faculties are being rebuilt environmental issues have the potential to arise. In order to address these potential issues the Borough will utilize the engineer to explore and address them..</i>
<b>Social</b>	<i>Social implications are not anticipated as these were existing facilities. As for the on-going Vulnerability Assessment we do not anticipate and issues.</i>
<b>Administrative capability</b>	<i>Performed with in-house staff at no cost</i>
<b>Local champion</b>	<i>Borough Administrator with support from Deputy OEM Coordinator</i>
<b>Other community objectives</b>	<i>Re-building of damaged facilities does tie into capital improvement programs.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Engineers and Architects used to support in house resources</i>
<b>Responsible party</b>	<i>Borough Administrator supported by OEM Duty Coordinator</i>
<b>Potential funding sources</b>	<i>Insurance proceeds, FEMA and municipal bonding</i>
<b>Time line</b>	<i>Final work to be completed in 2015</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward: Assessment completed, improvements to reduce vulnerability underway. Community Marina Building 80% complete, Pavilion 30%, DPW facility in design stage and Sewer pump station upgrades in evaluation stag. Vulnerability Assessments are on-going.</i>

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<b>Your community name</b>	<i>Avon By The Sea</i>
<b>Community action number</b>	3
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding, Hurricane and Tropical Storm, Nor'easter</i>
<b>Risk finding</b>	<i>The Borough of Avon By The Sea is exposed to hazards from coastal storms including hurricanes, as well as heavy rain events that may bring runoff from neighboring communities into the Sylvan Lake drainage area. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events. The floodplain is primarily around Sylvan Lake and the Shark River Inlet. Walls around the Lake are in need of mitigation. Sediment is accumulating in the lake.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Natural Systems Protection</i>
<b>Action type</b>	<i>Lake dredging and sediment removal to reduce risk of flooding</i>
<b>Action description</b>	<i>Overall goal of project is to reduce sediment levels within the Sylvan Lake Drainage basin to improve the health of the waterway and to provide additional capacity for flood water runoff and coastal inundation during storm surge.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Future losses from flooding and storm surge may be avoided as the levels of the retention area will be better prepared to accommodate runoff or inundation from storms without impacting nearby residential properties. Properties damaged during Sandy will be better protected from storms of a similar size and impact if all work is complete. Losses avoided are estimated to be roughly on the order of \$3.0M</i>
<b>Cost estimate</b>	<i>Cost will exceed \$1.0M as dredge spoils must be trucked from the site</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective with benefits of \$3.0M and costs of about \$1M</i>
<b>Technical</b>	<i>Design work with Engineering firms providing technical guidance to support in house staff</i>
<b>Political</b>	<i>Elected officials have been highly supportive of these efforts</i>
<b>Legal</b>	<i>Cooperative effort between the Borough of Avon and Bradley Beach as both Boroughs border the retention area</i>
<b>Environmental</b>	<i>Environmental impact is an improvement in water quality and conditions in and around the retention area</i>
<b>Social</b>	<i>The only social impact from this action anticipated is a positive one as flood risk would be reduced and water quality improved.</i>
<b>Administrative capability</b>	<i>Performed with in-house staff at no cost</i>
<b>Local champion</b>	<i>Borough Administrator with support from Deputy OEM Coordinator</i>
<b>Other community objectives</b>	<i>Other objective addressed by this action would be expanding our storm water management and preservation of open space.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Engineers and used to support in house resources including environmental commission Monmouth County resources</i>
<b>Responsible party</b>	<i>Borough Administrator supported by OEM Duty Coordinator</i>
<b>Potential funding sources</b>	<i>NRCS grants, Sandy mitigation funds, local appropriations</i>
<b>Time line</b>	<i>Phase 1 completed with additional phases planned when funding becomes available</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried Forward - In progress</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Avon By The Sea</i>
Community action number	<i>4</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, Storm Surge, Hurricane and Tropical Storm, Nor'easter</i>
Risk finding	<i>Local flood management was not consistent and lacked the focus of full-time staff</i>
<b>Describing the Action</b>	
Action category	<i>Local planning and regulations</i>
Action type	<i>Improve floodplain management</i>
Action description	<i>Increased staffing and focus on floodplain management. Local Flood Plain Management was a split responsibility in the past, full time staff has been added to address flood management along with construction and zoning issues (mid 2013 with immediate impact on addressing outstanding issues and rebuilding from Sandy)</i>
Existing, future &/or NA	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Future losses from flooding and storm surge should be reduced as development and construction in these vulnerable areas is being aggressively managed through floodplain management. Benefits are unquantifiable, but are expected to be well in excess of project costs.</i>
Cost estimate	<i>Costs offset at this time from increased construction activity; Net costs are relatively minimal as actions are undertaken by existing staff, and are a requirement for the community to maintain good status in FEMA's NFIP.</i>
Cost effectiveness (i.e., benefit/cost)	<i>Cost effective with benefits expected to be well in excess of costs as properties damaged during Sandy will be better protected from storms of a similar size and impact if all work is completed</i>
Technical	<i>IN house staff receiving training and Borough is participating in the CRS and other floodplain management programs</i>
Political	<i>Elected officials have been highly supportive of these efforts</i>
Legal	<i>The Borough has legal authority to enforce actions through local ordinance and state laws.</i>
Environmental	<i>By taking these actions we reduce future losses and promote sound development.</i>
Social	<i>The Borough does not anticipate and social impact from this action.</i>
Administrative capability	<i>Performed with in-house staff at no cost</i>
Local champion	<i>Borough Construction Official with support of OEM Deputy Coordinator</i>
Other community objectives	<i>This action will assist the Borough with it's participation in the CRS.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>This action is directed by local ordinance.</i>
Responsible party	<i>Construction Official</i>
Potential funding sources	<i>Local.</i>
Time line	<i>On-going.</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New action - In progress</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Avon-By-The-Sea</i>
Community action number	5
<b>Assessing the Risk</b>	
Hazard(s) addressed	Storm surge, flooding, hurricanes, tropical storms, nor'easters, wave action
Risk finding	Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.
<b>Describing the Action</b>	
Action category	Structure and Infrastructure Projects
Action type	Protect Structures
Action description	Elevation of Flood prone Residential Structures 155
Existing, future &/or NA	Existing
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	Losses avoided by this project are estimated to be \$13,617,933
Cost estimate	The cost of this project is estimated to be \$4,650,000
Cost effectiveness (i.e., benefit/cost)	This projects is likely to be cost effective, with benefits of \$13,617,433 and costs of \$4,650,000.00
Technical	Elevation of a structure is technically feasible and a proper mitigation activity.
Political	Our political leadership is very supportive of this type of project
Legal	While the municipality does not own the structures in questions, we fully support the homeowners in moving forward. We are currently assisting homeowners with obtaining grant funding and ICC Claims.
Environmental	No environmental impacts are anticipated as a result of elevating the homes. Homes that have been accepted into the State HMGP do have an environmental reviews and inspections conducted.
Social	No particular social group in our community is likely to be disproportionately impacted by this project
Administrative capability	Our municipality has the administrative capabilities to manage an elevation project through our construction department.
Local champion	Not only affected homeowners but the community as a whole and local government.
Other community objectives	This objective is aligned with the Boroughs objective of obtaining a better CRS rating.
<b>Implementing the Action</b>	
Priority	High
Local planning mechanism	Homes in the Borough that have been substantially damaged must be raised.
Responsible party	This project is managed cooperatively with the Construction Department, Floodplain Administrator and the Office of Emergency Management.
Potential funding sources	FEMA hazard mitigation grant funding streams (i.e., HMGP) and ICC funding.
Time line	This is a very large project that will be on-going for the foreseeable future.
<b>Reporting on Progress</b>	
Action progress status	This is a new project that has been on-going since hurricane Sandy.

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Belmar, NJ</i>
<b>Community action number</b>	<i>1 - Lake Como Flooding Mitigation</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, hurricane and tropical storm, surge, nor'easter</i>
<b>Risk finding</b>	<i>Repetative storm water flooding at Coastal Lake Como, property damage, road closures</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural Project</i>
<b>Action type</b>	<i>Drainage improvement</i>
<b>Action description</b>	<i>The Lake Como Flood Mitigation Project is to increase the amount of stormwater which can be removed from the lake before and during a storm event, by replacing the current outlet pipe and providing for a permanent forced main to pump out storm water in emergencies. At the same time, the ground level elevations on the north side of the lake would be elevated by regrading in order to prevent the lake from overflowing and flooding adjacent roadways and surrounding properties.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing &amp; Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The action will significantly reduce/eliminate the repetitive flooding that occurs during high rain events damaging residential property in the surrounding area. These actions will save millions of dollars in repetitive flooding loss claims from residential homes. The 100-Year Damage Value (20% for Zone AE) is \$3.9 Million for Belmar affected properties alone.</i>
<b>Cost estimate</b>	<i>\$1.5 Million</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with losses avoided in excess of project costs.</i>
<b>Technical</b>	<i>The actions are highly achievable from a technical aspect. The installation of a new outfall pipe and forcemain along with emergency pumping capabilities are technically within the expertise of the Borough Engineer.</i>
<b>Political</b>	<i>There is high community support for this project. Over 75 citizens recently attended a meeting at Belmar Borough Hall on this topic. Belmar's elected officials are advocates for the project as well as elected officials from neighboring towns.</i>
<b>Legal</b>	<i>Belmar represents one of three owners of the lake. Spring Lake and Lake Como share ownership. The three municipalities are already partners of an interlocal agreement for emergency management of the lake and are eager to implement a more permanent solution as outlined in this mitigation strategy.</i>
<b>Environmental</b>	<i>Yes</i>
<b>Social</b>	<i>This action will only improve the quality of life in surrounding neighborhoods. No disruptions are anticipated.</i>
<b>Administrative capability</b>	<i>Belmar has the capacity to administer this project.</i>
<b>Local champion</b>	<i>There are multiple advocates for this project: elected officials, community groups, municipal DPWs.</i>
<b>Other community objectives</b>	<i>This action furthers many objectives in addition to the mitigation of the flooding hazard, economic development and water quality just two of them.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Interlocal agreement between the three municipalities, municipal engineering, State and County permitting.</i>
<b>Responsible party</b>	<i>Borough Administrator, Colleen Connolly</i>
<b>Potential funding sources</b>	<i>HMPG 4086, CBDG, NJEIT Loans, Local Bonding</i>
<b>Time line</b>	<i>60 day work plan from obtaining permitting approvals</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward. The three municipalities have worked together through the interlocal to regularize the emergency management of the lake. Hurricane Sandy devastated the area surrounding the lake and has bolstered the resolve of the municipalities to secure the funding necessary for this long-term solution.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Belmar, NJ</i>
<b>Community action number</b>	<i>2 - Silver Lake Flooding Mitigation</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, hurricane and tropical storm, surge, nor'easter</i>
<b>Risk finding</b>	<i>Repetitive storm water flooding at Coastal Lake - Silver Lake, property damage, road closures</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural Project</i>
<b>Action type</b>	<i>Drainage improvement</i>
<b>Action description</b>	<i>The Silver Lake Flooding mitigation project is presently in construction. A 48" gravity fed and forced main running from Silver Lake to the Shark River Inlet under A Street.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing &amp; Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The action will significantly reduce/eliminate the repetitive flooding that occurs during high rain events damaging residential property in the surrounding area. These actions will save millions of dollars in repetitive flooding loss claims from residential homes.</i>
<b>Cost estimate</b>	<i>\$1.3 Million</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is expected to be cost effective, with benefits in excess of estimated project costs.</i>
<b>Technical</b>	<i>The actions are highly achievable from a technical aspect. The installation of a new outfall pipe and forcemain along with emergency pumping capabilities are technically within the expertise of the Borough Engineer.</i>
<b>Political</b>	<i>There is high community and elected official support for this project.</i>
<b>Legal</b>	<i>None</i>
<b>Environmental</b>	<i>Yes</i>
<b>Social</b>	<i>This action will only improve the quality of life in surrounding neighborhoods. Other than road closures during construction - no disruptions are anticipated.</i>
<b>Administrative capability</b>	<i>Belmar has the capacity to administer this project.</i>
<b>Local champion</b>	<i>There are multiple advocates for this project: elected officials, community groups, municipal DPWs.</i>
<b>Other community objectives</b>	<i>This action furthers many objectives in addition to the mitigation of the flooding hazard, economic development and water quality just two of them.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Municipal engineering, State and County permitting.</i>
<b>Responsible party</b>	<i>Borough Administrator, Colleen Connolly</i>
<b>Potential funding sources</b>	<i>Local Bonding</i>
<b>Time line</b>	<i>Construction is expected to be complete by July 2014</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward. In construction as of 4/4/14.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Belmar, NJ</i>
Community action number	<i>3 - Belmar L Street Bulkhead Flood Mitigation Project</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, hurricane and tropical storm, surge, nor'easter</i>
Risk finding	<i>Repetative storm water flooding from the Shark River during storm surges and high volume rain events. Damage to residential property, borough recreational areas and street closures.</i>
<b>Describing the Action</b>	
Action category	<i>Structural Project</i>
Action type	<i>Bulkhead Replacement and Elevation</i>
Action description	<i>Replace existing timber bulkhead with a new steel bulkhead along Route 35 at the L Street Beach and along Maclearie Park. The existing timer and concrete are deteriorated and too low to offer signifigant protection to the properties behind it.</i>
Existing, future &/or NA	<i>Existing &amp; Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The action will signifigantly reduce/elimate the repetative flooding that occurs during high rain events damaging residential property in the surrounding area along with repetative closures of Route 35, a main state highway.'These actions will save millions of dollars in repetitive flooding loss claims from residential homes as well as savings of public safety officials required to manage road closures during flooding.</i>
Cost estimate	<i>\$2.7 Million</i>
Cost effectiveness (i.e., benefit/cost)	<i>This action is likely to be cost effective, with benefits at least equal to (and possible more than) project costs.</i>
Technical	<i>The actions are highly achievable from a technical aspect. The installation of a new outfall pipe and forcemain along with emergency pumping capabilities are technically within the expertise of the Borough Engineer.</i>
Political	<i>There is high community and elected official support for this project.</i>
Legal	<i>Coordination with state entities NJDEP &amp; NJDOT</i>
Environmental	<i>Yes</i>
Social	<i>This action will only improve the quality of life in surrounding neighborhoods. No disruptions are anticipated.</i>
Administrative capability	<i>Belmar has the capacity to administer this project.</i>
Local champion	<i>There are multiple advocates for this project: elected officials, community groups, municipal DPWs.</i>
Other community objectives	<i>This action furthers many objectives in addition to the mitigation of the flooding hazard, economic development and water quality just two of them.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Municipal enginnering, State and County permitting.</i>
Responsible party	<i>Borough Administrator, Colleen Connolly</i>
Potential funding sources	<i>HMPG 4086, CDBG</i>
Time line	<i>90 day work plan from obtaining permitting approvals</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward.</i>

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<b>Your community name</b>	<i>Borough of Belmar</i>
<b>Community action number</b>	<i>4 - Elevation</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Storm surge, flooding, hurricanes, tropical storms, nor'easters
<b>Risk finding</b>	Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	Protect Structures
<b>Action description</b>	Elevation of Floodprone Residential Structures. Of the approximately 210 houses located in the Flood Hazard Zones V and A, 114 are primary residences that are eligible for federal funding to cover the Increased Cost of Compliance to elevate the structures. These primary residences range from Elevation 6 - 11.
<b>Existing, future &amp;/or NA</b>	Existing
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Losses avoided by this project are estimated to be \$6,840,000.
<b>Cost estimate</b>	The cost of this project is estimated to be \$3,420,00.
<b>Cost effectiveness (i.e., benefit/cost)</b>	This projects is likely to be cost effective, with benefits of \$6,840,000 and costs of \$3,420,000.
<b>Technical</b>	Elevation is technically feasible
<b>Political</b>	Our political leadership strongly supports this type of project
<b>Legal</b>	While the municipality does not own the structures in questions, we fully support the homeowners in moving forward
<b>Environmental</b>	No environmental impacts are anticipated as a result of elevating the homes
<b>Social</b>	No particular social group in our community is likely to be disproportionately impacted by this project
<b>Administrative capability</b>	Our municipality has the administrative capabilities to manage an elevation project
<b>Local champion</b>	affected homeowners
<b>Other community objectives</b>	
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	Belmar Planning Board, Belmar Zoning Board
<b>Responsible party</b>	affected homeowners
<b>Potential funding sources</b>	FEMA hazard mitigation grant funding streams (i.e., HMGP)
<b>Time line</b>	variable based on size of home and timing of award, approximate is 60 days.
<b>Reporting on Progress</b>	
<b>Action progress status</b>	New

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<b>Your community name</b>	<i>Borough of Belmar</i>
<b>Community action number</b>	<i>5 - Seawall</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Storm surge, flooding, hurricanes, tropical storms, nor'easters
<b>Risk finding</b>	Most of Belmar is at elevation 6-9 feet. Ocean Avenue (bordering the Atlantic Ocean) is at Elevation 11 feet. Storm surges above elevation 11 feet flood the town and Ocean Avenue becomes a damn trapping flood waters in town.
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	Protect Structures
<b>Action description</b>	The installation of a steel sheet pile, 30-feet long driven into the beach on the east side of the boardwalk (on the east side of Ocean Avenue) will establish surge protection at elevation 13 feet.
<b>Existing, future &amp;/or NA</b>	Future
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Losses avoided by this project are estimated to be \$130,000,000.
<b>Cost estimate</b>	The cost of this project is estimated to be \$5,000,000.
<b>Cost effectiveness (i.e., benefit/cost)</b>	This projects is likely to be cost effective, with benefits of \$130,000,000 and costs of \$5,000,000.
<b>Technical</b>	Installation of the seawall is technically feasible
<b>Political</b>	Our community and political leadership strongly supports this type of project
<b>Legal</b>	None
<b>Environmental</b>	No environmental impacts are anticipated - All appropriate permits from DEP will be aquired.
<b>Social</b>	No particular social group in our community is likely to be disproportionately impacted by this project
<b>Administrative capability</b>	Our municipality has the administrative capabilities to manage an elevation project
<b>Local champion</b>	There are many advocates for this project: Elected Officials, community groups, municipal DPW, Homeowners, Business Owners
<b>Other community objectives</b>	This action furthers may objectives in addition to the flooding hazard, economic development and water quality among them.
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	Borough of Belmar, NJDEP
<b>Responsible party</b>	Borough of Belmar, Colleen Connolly
<b>Potential funding sources</b>	FEMA hazard mitigation grant funding streams (i.e., HMGP)
<b>Time line</b>	90 days from funding authorization
<b>Reporting on Progress</b>	
<b>Action progress status</b>	New

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>BOROUGH OF BRADLEY BEACH</i>
<b>Community action number</b>	<i>1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>STORM SURGE, FLOODING, HURRICANES, TROPICAL STORMS, NOR'EASTERS</i>
<b>Risk finding</b>	<i>Due to Super Storm Sandy, Bradley Beach incurred significant damages along its beach front and dune system. There were also significant damages to the bulkhead system. The Borough experiences ocean and lake flooding during hurricanes and large storms. Virtually all of Bradley Beach is in mapped storm surge hazard areas. Climate change will contribute to more frequent and severe weather events. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>STRUCTURE AND INFRASTRUCTURE PROJECTS</i>
<b>Action type</b>	<i>STRUCTURAL CONTROL TECHNIQUES</i>
<b>Action description</b>	<i>SAND DUNE/BERM CONSTRUCTION - INSTALL SNOW FENCING IN A ZIG ZAG PATTERN, PLACE FIR TREES INSIDE THUS ALLOWING SAND TO ACCUMULATE NATURALLY ALONG ENTIRE BEACHFRONT FOR FLOODPLAIN MANAGEMENT</i>
<b>Existing, future &amp;/or NA</b>	<i>ACTION PROTECTS EXISTING AND FUTURE DEVELOPMENT AND PREVENTS FLOODING</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>FORMER DUNE STRUCTURE CONTRIBUTED TO A SIGNIFICANT REDUCTION IN FLOOD DAMAGE OF ROADWAY AND STRUCTURES AND ALSO REMAINS IN COMPLIANCE WITH OUR COMMUNITY RATING SYATEM DURING SUPERSTORM SANDY. LOSSES AVOIDED AS A RESULT OF THE PROJECT COULD EXCEED \$500,000 HAD THE STORM SURGE PROCEEDED FULL FORCE IN A WESTERLY DIRECTION INTO THE BOROUGH WITH NO DUNE BARRIERS TO NEUTRALIZE IT.</i>
<b>Cost estimate</b>	<i>APPROXIMATELY \$50,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>A PROVEN METHOD TO REDUCE LOSSES TO BOROUGH INFRASTRUCTURE AND STRUCTURES. THIS PROJECT IS LIKELY TO BE COST EFFECTIVE, WITH BENEFITS ON THE ORDER OF APPROXIMATELY \$750,000 AT A MINIMUM COST OF \$50,000 TO REPLACE THE DUNE INFRASTRUCTURE. AND COSTS ON THE ORDER OF \$50,000.</i>
<b>Technical</b>	<i>FEASIBLE AND PROVEN SUCCESSFUL METHOD USED PRIOR TO SUPERSTORM SANDY</i>
<b>Political</b>	<i>GOVERNING BODY AND CITIZENS FAVOR THIS PROJECT</i>
<b>Legal</b>	<i>REPLACES FORMER DUNES, SO THERE SHOULD BE NO LEGAL ISSUES</i>
<b>Environmental</b>	<i>NO ANTICIPATED IMPACT SINCE THIS PROJECT REPLACES A FORMER EXISTING DUNE NETWORK</i>
<b>Social</b>	<i>NO NEGATIVE SOCIAL IMPACT ANTICIPATED</i>
<b>Administrative capability</b>	<i>BOROUGH IS FULLY CAPABLE TO IMPLEMENT THIS PROJECT</i>
<b>Local champion</b>	<i>MAYOR, COUNCIL AND LOCAL OFFICE OF EMERGENCY MANAGEMENT</i>
<b>Other community objectives</b>	<i>PROTECT BOROUGH ROADWAYS AND STRUCTURES FROM SEVERE STORM IMPACT AND REMAIN IN COMPLIANCE WITH THE BOUROUGH COMMUNITY RATING SYATEM.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>HIGH</i>
<b>Local planning mechanism</b>	<i>BOROUGH ENGINEER, BOROUGH COUNCIL AND PUBLIC WORKS DEPARTMENT</i>
<b>Responsible party</b>	<i>SUPERVISOR OF PUBLIC WORKS, R. BIANCHI</i>
<b>Potential funding sources</b>	<i>FEMA, LOCAL BONDING AND PUBLIC WORKS LABOR</i>
<b>Time line</b>	<i>START BY JULY 1, 2014, COMPLETION EST 12/31/2014 (NATURAL SAND BUILD UP)</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>ACTION CARRIED FORWARD FROM LAST PLAN</i>

BOROUGH OF BRADLEY BEACH

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>BOROUGH OF BRADLEY BEACH</i>
<b>Community action number</b>	<i>2</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>REDUCE LAKE FLOODING DUE TO OCEAN STORM SURGE - FLOODING, STORM SURGE, HURRICANES, TROPICAL STORMS, NOR'EASTERS</i>
<b>Risk finding</b>	<i>FLETCHER LAKE DEPTH HAS BEEN DRASTICALLY REDUCED BY SANDY THUS CAUSING OVERFLOW DURING STRONG STORMS, HURRICANES AND COASTAL FLOODING. THESE LAKES ALSO ACT AS RETENTION BASINS FOR RUN OFF FROM ADJOINING MUNICIPAL, COUNTY AND STATE ROADWAYS</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>STRUCTURE AND INFRASTRUCTURE PROJECTS</i>
<b>Action type</b>	<i>DRAINAGE SYSTEM IMPROVEMENTS AND STRUCTURAL CONTROL TECHNIQUES</i>
<b>Action description</b>	<i>INSTALL NEW OUTFALL PIPES AND BULKHEADING AROUND FLETCHER LAKE AS WELL AS REPLACEMENT OF DUNES ALONG THE ENTIRE BEACHFRONT. THE FLETCHER LAKE OUTFALL PIPES AND GATES HAVE BEEN REPLACED. ADDITIONAL FUNDING IS REQUIRED TO COMPLETE THIS EFFORT. THIS PROJECT WILL ASSIST IN FLOODPLAIN MANAGEMENT</i>
<b>Existing, future &amp;/or NA</b>	<i>THESE ACTIONS WILL ASSIST IN PROTECTING EXISTING AND FUTURE DEVELOPMENT</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>REDUCTION OF LAKE FLOODING HAS BEEN PROVEN TO REDUCE COSTS TO REPAIR/REPLACE INFRASTRUCTURE ELEMENTS SUCH AS ROADWAYS, STORM SEWER, GAS AND WATER LINES AS WELL AS STRUCTURE DAMAGE/LOSS. LAKE REPAIRS ALONG WITH DUNE REPLACEMENT WILL CONTRIBUTE TO A SIGNIFICANT REDUCTION IN FLOOD DAMAGE TO ROADWAYS AND STRUCTURES AND ALSO REMAINS IN COMPLIANCE WITH OUR COMMUNITY RATING SYSTEM DURING SUPERSTORM SANDY. LOSSES AVOIDED ARE ESTIMATED TO BE ON THE ORDER OF \$1.0M IN DAMAGE AS DETAILED ABOVE.</i>
<b>Cost estimate</b>	<i>\$100,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>THIS PROJECT IS LIKELY TO BE COST EFFECTIVE, WITH BENEFITS ON THE ORDER OF \$1.0M AND COSTS ON THE ORDER OF \$100,000.</i>
<b>Technical</b>	<i>THERE ARE NO MAJOR TECHNICAL MATTERS IN THIS PROJECT, THE METHOD(S) TO BE UTILIZED ARE WELL ESTABLISHED PROCEDURES</i>
<b>Political</b>	<i>THE GOVERNING BODY AND CITIZENS FAVOR THIS PROJECT</i>
<b>Legal</b>	<i>PROPER PERMITTING AS UTILIZED IN THE PAST WILL BE REQUIRED</i>
<b>Environmental</b>	<i>INCREASING LAKE DEPTH WILL AID IN REPLENISHMENT OF THE FISH &amp; WILDLIFE POPULATION THAT WAS DRASTICALLY REDUCED BY SANDY</i>
<b>Social</b>	<i>THERE WILL BE NO NEGATIVE SOCIAL IMPACT</i>
<b>Administrative capability</b>	<i>MAYOR AND COUNCIL AND FLETCHER LAKE COMMISSION</i>
<b>Local champion</b>	<i>MAYOR AND COUNCIL AND LOCAL OFFICE OF EMERGENCY MANAGEMENT AS WELL AS ENVIRONMENTAL GROUPS</i>
<b>Other community objectives</b>	<i>IMPROVE AND PROTECT LIFESTYLES OF RESIDENTS RESIDING ALONG FLETCHER BOTH LAKE AND REDUCTION OF COSTLY PROPERTY DAMAGE AND REMAIN IN COMPLIANCE WITH THE BOROUGH COMMUNITY RATING SYSTEM</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>HIGH</i>
<b>Local planning mechanism</b>	<i>MAYOR, COUNCIL, BOROUGH ENGINEER AND FLETCHER AND SYLVAN LAKE COMMISSIONS</i>
<b>Responsible party</b>	<i>MAYOR, COUNCIL, BOROUGH ENGINEER AND FLETCHER LAKE COMMISSION</i>
<b>Potential funding sources</b>	<i>BONDING AND FEMA</i>
<b>Time line</b>	<i>COMPLETE BY 8/31/2014</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>ACTION CARRIED FORWARD FROM LAST PLAN</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>BOROUGH OF BRADLEY BEACH</i>
<b>Community action number</b>	3
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>REDUCE LAKE FLOODING DUE TO OCEAN STORM SURGE - FLOODING, STORM SURGE, HURRICANES, TROPICAL STORMS, NOR'EASTERS</i>
<b>Risk finding</b>	<i>SYLVAN LAKE DEPTH HAS BEEN DRASTICALLY REDUCED BY SANDY THUS CAUSING OVERFLOW DURING STRONG STORMS, HURRICANES AND COASTAL FLOODING. THIS LAKE ALSO ACTS AS RETENTION BASIN FOR RUN OFF FROM ADJOINING MUNICIPAL, COUNTY AND STATE ROADWAYS</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>STRUCTURE AND INFRASTRUCTURE PROJECTS</i>
<b>Action type</b>	<i>DRAINAGE SYSTEM IMPROVEMENTS AND STRUCTURAL CONTROL TECHNIQUES</i>
<b>Action description</b>	<i>INSTALL NEW OUTFALL PIPES AND BULKHEADING AROUND SYLVAN LAKE AS WELL AS REPLACEMENT OF DUNES ALONG THE ENTIRE BEACHFRONT. THE SYLVAN LAKE OUTFALL PIPE AND GATES MUST BE REPLACED. ADDITIONAL FUNDING IS REQUIRED TO COMPLETE THIS EFFORT. THIS PROJECT WILL ASSIST IN FLOODPLAIN MANAGEMENT</i>
<b>Existing, future &amp;/or NA</b>	<i>THESE ACTIONS WILL ASSIST IN PROTECTING EXISTING AND FUTURE DEVELOPMENT</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>REDUCTION OF LAKE FLOODING HAS BEEN PROVEN TO REDUCE COSTS TO REPAIR/REPLACE INFRASTRUCTURE ELEMENTS SUCH AS ROADWAYS, STORM SEWER, GAS AND WATER LINES AS WELL AS STRUCTURE DAMAGE/LOSS. LAKE REPAIRS ALONG WITH DUNE REPLACEMENT WILL CONTRIBUTE TO A SIGNIFICANT REDUCTION IN FLOOD DAMAGE TO ROADWAYS AND STRUCTURES AND ALSO REMAINS IN COMPLIANCE WITH OUR COMMUNITY RATING SYSTEM DURING SUPERSTORM SANDY. LOSSES AVOIDED ARE ESTIMATED TO BE ON THE ORDER OF \$1.0M IN DAMAGE AS DETAILED ABOVE</i>
<b>Cost estimate</b>	<i>\$200,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>THIS PROJECT IS LIKELY TO BE COST EFFECTIVE, WITH BENEFITS ON THE ORDER OF \$1.0M AND COSTS IN EXCESS OF \$200,000.</i>
<b>Technical</b>	<i>THERE ARE NO MAJOR TECHNICAL MATTERS IN THIS PROJECT, THE METHOD(S) TO BE UTILIZED ARE WELL ESTABLISHED PROCEDURES</i>
<b>Political</b>	<i>THE GOVERNING BODY AND CITIZENS FAVOR THIS PROJECT</i>
<b>Legal</b>	<i>PROPER PERMITTING AS UTILIZED IN THE PAST WILL BE REQUIRED</i>
<b>Environmental</b>	<i>INCREASING LAKE DEPTH WILL AID IN REPLENISHMENT OF THE FISH &amp; WILDLIFE POPULATION THAT WAS DRASTICALLY REDUCED BY SANDY</i>
<b>Social</b>	<i>THERE WILL BE NO NEGATIVE SOCIAL IMPACT</i>
<b>Administrative capability</b>	<i>MAYOR AND COUNCIL AND SYLVAN LAKE COMMISSION</i>
<b>Local champion</b>	<i>MAYOR AND COUNCIL AND LOCAL OFFICE OF EMERGENCY MANAGEMENT AS WELL AS ENVIRONMENTAL GROUPS</i>
<b>Other community objectives</b>	<i>IMPROVE AND PROTECT LIFESTYLES OF RESIDENTS RESIDING ALONG SYLVAN LAKE AND REDUCTION OF COSTLY PROPERTY DAMAGE AND REMAIN IN COMPLIANCE WITH THE BOROUGH COMMUNITY RATING SYSTEM</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>HIGH</i>
<b>Local planning mechanism</b>	<i>MAYOR, COUNCIL, BOROUGH ENGINEER AND SYLVAN LAKE COMMISSION</i>
<b>Responsible party</b>	<i>MAYOR, COUNCIL, BOROUGH ENGINEER AND SYLVAN LAKE COMMISSION</i>
<b>Potential funding sources</b>	<i>BONDING AND FEMA</i>
<b>Time line</b>	<i>COMPLETE BY 8/31/2014</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>ACTION CARRIED FORWARD FROM LAST PLAN</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>BOROUGH OF BRADLEY BEACH</i>
Community action number	<i>4</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>FLOOD, WIND, NOR'EASTER, HURRICANE &amp; TROPICAL STORM, STORM SURGE</i>
Risk finding	<i>THE BOROUGH SEWER PLANT IS IDENTIFIED AS SUSCEPTIBLE TO STORM FLOODING. SEWER PUMP STATION SUSCEPTIBLE TO FLOODING DURING SEVERE COASTAL STORMS</i>
<b>Describing the Action</b>	
Action category	<i>STRUCTURE AND INFRASTRUCTURE PROJECT</i>
Action type	<i>FLOODPROOFING SEWER PUMP STATION</i>
Action description	<i>FACILITY IS LOCATED AT THE SOUTH END OF THE BOROUGH ON THE EAST SIDE OF OCEAN AVENUE. THE FACILITY REQUIRES COMPLETE RENOVATION TO INCLUDE FLOOD PROTECTION, ELEVATION OF CRITICAL COMPONENTS AND REPLACEMENT OF ALL OPERATIONAL EQUIPMENT. REBUILD FACILITY TO REDUCE FLOODING POTENTIAL, RELOCATE AND ELEVATE GENERATOR TO AN ALTERNATE LOCATION IN FACILITY (THIS REQUIRES REPLACEMENT OF FOUNDATION TO SUPPORT ADDITIONAL LOADS), REPAIR/REPLACE ALL ELECTRICAL WIRING AND CONTROLS. REPAIR/REPLACE CHOPPERS TO IMPROVE PROCESSING CAPABILITIES</i>
Existing, future &/or NA	<i>EXISTING AND FUTURE - THIS ACTION IS NECESSARY TO PROTECT THE CURRENT HEALTH AND WELL BEING OF THE CITIZENS.</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>THIS ACTION WILL INSURE THE FUTURE HEALTH AND WELL BEING OF ALL CITIZENS WITHIN THE BOROUGH AND MITIGATE COST(S) DUE TO FUTURE STORM RELATED DAMAGES. LOSSES AVOIDED AS A RESULT OF IMPLEMENTING THIS PROJECT ARE ESTIMATED TO BE ON THE ORDER OF ROUGHLY \$1.75M.</i>
Cost estimate	<i>\$1.0 M</i>
Cost effectiveness (i.e., benefit/cost)	<i>THIS PROJECT IS LIKELY TO BE COST EFFECTIVE, WITH BENEFITS ON THE ORDER OF \$1.75M AND COSTS IN EXCESS OF \$1.0 MILLION.</i>
Technical	<i>MEASURES TO IMPLEMENT THIS PROJECT TO INCLUDE ENGINEERING DESIGN AND FUNDING HAVE BEEN TAKEN.</i>
Political	<i>THE GOVERNING BODY AND CITIZENS FAVOR THIS PROJECT</i>
Legal	<i>PROPER PERMITTING, INSPECTIONS AND APPROVALS REQUIRED</i>
Environmental	<i>THIS ACTION IS NECESSARY FOR THE PROTECTION OF THE COMMUNITY HEALTH AND ENVIRONMENT</i>
Social	<i>THERE WILL BE NO NEGATIVE SOCIAL IMPACT</i>
Administrative capability	<i>THE BOROUGH IS FULLY CAPABLE TO IMPLEMENT THIS PROJECT</i>
Local champion	<i>MAYOR, COUNCIL AND LOCAL OFFICE OF EMERGENCY MANAGEMENT</i>
Other community objectives	<i>PROTECT THE HEALTH, WELL BEING OF THE CITIZENS AND THE ENVIRONMENT</i>
<b>Implementing the Action</b>	
Priority	<i>HIGH, CURRENTLY IN PROCESS</i>
Local planning mechanism	<i>MAYOR, COUNCIL AND BOROUGH ENGINEER</i>
Responsible party	<i>MAYOR, COUNCIL AND BOROUGH ENGINEER</i>
Potential funding sources	<i>FEMA, AND LOCAL BONDING</i>
Time line	<i>1-Jun-14</i>
<b>Reporting on Progress</b>	
Action progress status	<i>NEW ACTION</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>BOROUGH OF BRADLEY BEACH</i>
Community action number	5
<b>Assessing the Risk</b>	
Hazard(s) addressed	ALL
Risk finding	DEFICIENCIES WERE IDENTIFIED WITH LOCAL AND INTER AGENCY COMMUNICATION AS WELL AS COMMUNITY NOTIFICATIONS DURING PAST EMERGENCIES
<b>Describing the Action</b>	
Action category	COMMUNICATION AND NOTIFICATION SYSTEM IMPROVEMENTS
Action type	THE BOROUGHS IS CURRENTLY EXPLORING THE FEASIBILITY OF NETWORKING WITH OTHER MUNICIPALITIES IN ORDER TO ESTABLISH AND IMPLEMENT CONTINGENCY PLANS FOR COMMUNICATIONS CONTINUITY. THE BOROUGH HAS RECENTLY IMPLEMENTED SEVERAL METHODS OF NOTIFICATION TO THE PUBLIC TO IMPROVE THE EMERGENCY NOTIFICATION PROCESS.
Action description	DISCUSSIONS UNDERWAY TO EXPLORE THE USE OF SATELLITE AND DIGITAL METHODS OF COMMUNICATION. ALSO A NEW EMERGENCY NOTIFICATION SYSTEM HAS BEEN IMPLEMENTED THAT INCORPORATES THE USE OF TELEPHONE, TEXT, INTERNET AS WELL AS SOCIAL MEDIA NOTIFICATIONS.
Existing, future &/or NA	N/A
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	IMPLEMENTATION OF THESE NOTIFICATION UPGRADES ARE VITAL TO PROTECTING LIVES AND PREVENTING INJURIES. LOSSES AVOIDED AS A RESULT OF COMMUNICATIONS AND NOTIFICATION SYSTEM UPGRADES ARE ESTIMATED TO BE ROUGHLY \$350,000.
Cost estimate	THE COST ASSOCIATED WITH COMMUNICATIONS UPGRADES IS ESTIMATED TO BE APPROXIMATELY \$300,000. THERE IS NO COST ASSOCIATED WITH THE NOTIFICATION SYSTEM UPGRADES.
Cost effectiveness (i.e., benefit/cost)	A CONTINGENCY PLAN FOR COMMUNICATIONS IS IMPERATIVE FOR THE LIFE HEALTH AND WELL BEING OF ALL RESIDENTS, VISITORS, AS WELL FOR CONTINUITY OF GOVERNMENT AND LOCAL COMMERCE. FURTHER THERE IS NO COST ASSOCIATED WITH NOTIFICATION SYSTEM UPGRADES THAT PROVIDE QUICKER MORE EFFICIENT METHODS OF COMMUNICATION TO BOROUGH RESIDENTS IN AN EMERGENCY SITUATION. THIS PROJECT IS LIKELY TO BE COST EFFECTIVE, WITH BENEFITS ON THE ORDER OF \$500,000 AND COSTS OF APPROXIMATELY \$300,000.
Technical	THESE MITIGATION ACTIONS ARE TECHNICALLY FEASIBLE. THE NOTIFICATION UPGRADES HAVE ALREADY BEEN IMPLEMENTED
Political	LOCAL GOVERNMENT AND PUBLIC SUPPORT THESE MITIGATION ACTIONS.
Legal	THESE ARE ADMINISTRATIVE ISSUES
Environmental	NO NEGATIVE ENVIRONMENTAL IMPACT
Social	THESE ACTIONS WILL AFFECT THE ENTIRE POPULATION IN A POSITIVE WAY.
Administrative capability	THE BOROUGH IS FULLY CAPABLE OF IMPLEMENTING AND MAINTAINING THESE ACTIONS ONCE THE INITIAL FUNDING MECHANISM HAS BEEN PUT IN PLACE FOR THE PURCHASE OF REQUIRED COMMUNICATIONS EQUIPMENT.
Local champion	MAYOR, COUNCIL, POLICE DEPARTMENT AND LOCAL OFFICE OF EMERGENCY MANAGEMENT
Other community objectives	DISPENSE NOTIFICATIONS AS REQUIRED FOR ANY EMERGENCIES OR EVENTS THAT ARISE
<b>Implementing the Action</b>	
Priority	HIGH
Local planning mechanism	THESE UPGRADES WILL BE INCORPORATED IN THE LOCAL EMERGENCY PLANS AND PROCEDURES WILL BE IN PLACE FOR USE.
Responsible party	EMERGENCY MANAGEMENT COORDINATOR
Potential funding sources	GRANTS, LOCAL BUDGET AND MUNICIPAL BONDS
Time line	COMMUNICATIONS UPGRADE BY JANUARY 2015, NOTIFICATION CURRENTLY IMPLEMENTED
<b>Reporting on Progress</b>	
Action progress status	NEW SINCE THE LAST VERSION OF THE PLAN

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<b>BOROIGH OF BRADLEY BEACH</b>
<b>Community action number</b>	6
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Storm surge, flooding, hurricanes, tropical storms, nor'easters
<b>Risk finding</b>	Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	Protect Structures
<b>Action description</b>	Elevation of Floodprone Residential Structures. (135)
<b>Existing, future &amp;/or NA</b>	Existing
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Losses avoided by this project are estimated to be \$120,000 per home (times 135 homes, total benefits = \$16.2M)
<b>Cost estimate</b>	The cost of this project is estimated to be \$16.2M
<b>Cost effectiveness (i.e., benefit/cost)</b>	This projects is likely to be cost effective, with benefits equal to project costs of \$16.2M.
<b>Technical</b>	Elevation is technically feasible
<b>Political</b>	The Governing Body and citizens support this project
<b>Legal</b>	While the municipality does not own the structures in questions, we fully support the homeowners in moving forward. Proper permitting as utilized in the past will be required.
<b>Environmental</b>	No environmental impacts are anticipated as a result of elevating the homes.
<b>Social</b>	No particular social group in our community is likely to be disproportionately impacted by this project. There will be no negative social impact.
<b>Administrative capability</b>	Our municipality has the administrative capabilities to manage an elevation project.
<b>Local champion</b>	Affected homeowners, Mayor and Council, OEM and Environmental groups.
<b>Other community objectives</b>	Improve and protect lifestyles of residents residing along Fletchewr and Sylvan Lakesas well as reduction of costly property damage.
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	Mayor, Council, & Borough Engineer.
<b>Responsible party</b>	Mayor, Council, & Borough Engineer.
<b>Potential funding sources</b>	FEMA hazard mitigation grant funding streams (i.e., HMGP)
<b>Time line</b>	There have been no applicatiосn for elevation submitted to Bradley Beach as of this date.
<b>Reporting on Progress</b>	
<b>Action progress status</b>	New action

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>BOROUGH OF BRADLEY BEACH</i>
<b>Community action number</b>	<i>7</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Continue to support and fund the Borough's Community Emergency Response Team</i>
<b>Risk finding</b>	<i>During Community Emergencies (Fire, Storms, etc) the team provides emergency assistance as required</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Emergency support for Police, Fire and First Aid</i>
<b>Action type</b>	<i>Provide team members to assist as required</i>
<b>Action description</b>	<i>Ongoing training of team members to assist in emergencies thru training in areas such as traffic control, medical assistance, and/or weather related matters.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>It is an established fact that the existence of a CERT unit in a community provides financial benefits to the community. Losses avoided are unquantifiable but are expected to be in excess of project costs as the project would provide training to the team which would allow them to respond more efficiently and effectively and, in turn, minimizing overall losses during an emergency.</i>
<b>Cost estimate</b>	<i>Ongoing efforts funded as required by the Borough. The costs of training are provided free of charge to the Borough.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>A well established method to provide citizen support in emergencies is cost effective for Bradley Beach, with zero dollars in out of pocket training costs and substantial benefits as losses are avoided as properly trained staff execute efficient, effective, and coordinated response actions during an emergency.</i>
<b>Technical</b>	<i>Feasible and proven successful</i>
<b>Political</b>	<i>Governing body and citizens favor this project</i>
<b>Legal</b>	<i>No legal issues</i>
<b>Environmental</b>	<i>No environmental impact</i>
<b>Social</b>	<i>Positive social impact</i>
<b>Administrative capability</b>	<i>Borough is fully capable to continue this project</i>
<b>Local champion</b>	<i>Mayor, Council and Office of Emergency Management</i>
<b>Other community objectives</b>	<i>Continue to provide assistance through local community involvement</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Ongoing activity</i>
<b>Local planning mechanism</b>	<i>Police Department, Mayor and Council, Office of Emergency Management</i>
<b>Responsible party</b>	<i>Mayor and Emergency Management Coordinator</i>
<b>Potential funding sources</b>	<i>Mayor and Council</i>
<b>Time line</b>	<i>Ongoing</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Ongoing activity since 2009 plan (carried forward)</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Brielle</i>
<b>Community action number</b>	<i>Borough of Brielle - Action No. 1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding, &amp; Wave Action, Hurricanes, Tropical Storms, Nor'easters, Surge</i>
<b>Risk finding</b>	<i>Flooding of residential structures is a key problem in the community. Much of the town is in mapped floodplains and/or surge hazard areas. Wave action is also an issue in many locations. Approximately, 200 single family homes are within the 100 year flood zone throughout the Borough. During extreme storm events these properties can experience flooding and property damage. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure/ Infrastructure</i>
<b>Action type</b>	<i>Single Family Homes - Raising of Structure</i>
<b>Action description</b>	<i>The Borough is proposing mitigation through house elevation for homes within the 100 year flood zone.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Reduces tidal storm surge damage and provides protection to waterfront homes within the 100 year flood zone. Losses avoided by elevating these homes are estimated to be roughly on the order of \$58,400,000 (or about \$292,000 per property)</i>
<b>Cost estimate</b>	<i>\$20,000,000 (about \$100,000 per each of 200 properties)</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits estimated to be on the order of \$58,400,000 and costs of only \$20,000,000.</i>
<b>Technical</b>	<i>Technically feasible. Will help prevent flood damage to residential homes.</i>
<b>Political</b>	<i>No apparent political issues.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>No adverse environmental effects. Will help improve flood loss and mitigate debris entering into the river.</i>
<b>Social</b>	<i>Will help residents along shoreline area of the Borough within the 100 year flood zone.</i>
<b>Administrative capability</b>	<i>Need at least 3 people to administer (after technical assistance from the State)</i>
<b>Local champion</b>	<i>Residents along the shoreline.</i>
<b>Other community objectives</b>	<i>Flood Damage Prevention Ordinance</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Flood Damage Prevention Ordinance</i>
<b>Responsible party</b>	<i>Borough - Engineer</i>
<b>Potential funding sources</b>	<i>HMGP, RFC, SRL and FMA. For 25% local match, in-kind services</i>
<b>Time line</b>	<i>2 year</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New Action Proposed in 2014</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Brielle</i>
<b>Community action number</b>	<i>Borough of Brielle - Action No. 2</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood &amp; Storm Surge, Hurricanes, Tropical Storms, Nor'easters, erosion</i>
<b>Risk finding</b>	<i>The existing bulkhead system is not sufficient to provide adequate flood protection and protect existing roadways. A key location identified is Ocean Avenue where bulkhead mitigation is needed to prevent the end of the roadway from collapsing, which would undermine the adjacent properties and can cause flooding during a period of high tide. Any storm that creates a tidal surge would then pose a severe threat to the area and further undermine Ocean Avenue. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure/ Infrastructure</i>
<b>Action type</b>	<i>Bulkhead Mitigation</i>
<b>Action description</b>	<i>The Borough is proposing bulkhead upgrades within key right-of-way areas. Multiple Bulkhead restoration projects throught the Borough with priority being Ocean Avenue to prevent the end of the roadway from collapsing, which would undermine the adjacent properties and can cause flooding during a period of high tide.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Reduces tidal storm surge and provides protection to waterfront homes within the individual bulkhead areas. Will provide protection for residents and waterfront homes within the bulkhead area. Losses avoided by upgrading the bulkheads are estimated to be roughly on the order of \$3,000,000.</i>
<b>Cost estimate</b>	<i>\$750,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits on the order of \$3,000,000 and costs of only \$750,000.</i>
<b>Technical</b>	<i>Technically feasbile. Will help control flooding.</i>
<b>Political</b>	<i>No apparent political issues.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>No adverse environmental effects. Well help improve flood control and mitigate debris entering into the river.</i>
<b>Social</b>	<i>Will help residents along shoreline area of the Borough.</i>
<b>Administrative capability</b>	<i>Need at least 3 people to administer (after technical assistance from the State)</i>
<b>Local champion</b>	<i>Residents along the shoreline.</i>
<b>Other community objectives</b>	<i>Municipal Stormwater Management Regulation Program</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Municipal Stormwater Management Regulation Program</i>
<b>Responsible party</b>	<i>Borough - Engineer</i>
<b>Potential funding sources</b>	<i>HMGP, RFC, SRL and FMA. For 25% local match, in-kind services</i>
<b>Time line</b>	<i>1 year</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Ongoing action from 2009 Plan</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Colts Neck Township</i>
Community action number	<i>Colts Neck Township # 1</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Drought</i>
Risk finding	<i>To secure a potable water source for our public buildings during times of drought conditions. The township relies solely on water wells for their water supply.</i>
<b>Describing the Action</b>	
Action category	<i>Structural/infrastructure projects</i>
Action type	<i>Improvement to ensure a safe/reliable water source</i>
Action description	<i>Ability to drill new water wells at strategic public buildings to keep them operational during a drought occurrence. Drill replacement wells for residents on a case by case basis.</i>
Existing, future &/or NA	<i>Future development</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Would allow strategic public buildings to operate and serve the public during times of drought.</i>
Cost estimate	<i>Well drilling- 12,000 x 5 = \$60,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>Maintaining a water supply for strategic public buildings will allow operations to continue and prevent the cost of relocating personnel and equipment to an alternate location</i>
Technical	<i>Technically feasible -allows operations in township facilities to function in order to assist residents in need of assistance.</i>
Political	<i>Keeping township facilities open during a drought occurrence is politically expendent.</i>
Legal	<i>No apparent legal issues.</i>
Environmental	<i>No apparent environmental issues. Wells to be installed by a licensed well driller.</i>
Social	<i>This improvement would benefit the entire community.</i>
Administrative capability	<i>we have the administrative capability to implement and maintain project</i>
Local champion	
Other community objectives	<i>This would be a capital improvement providing the ability to service the community during a drought occurrence.</i>
<b>Implementing the Action</b>	
Priority	<i>Medium</i>
Local planning mechanism	<i>Decision to be made by the township committee</i>
Responsible party	<i>Health Officer and Township Administrator</i>
Potential funding sources	<i>Local Budget</i>
Time line	<i>3 years.</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action in 2014</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Colts Neck Township</i>
Community action number	<i>Colts Neck Township Plan# 2</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, hurricanes/tropical storms, nor'easters</i>
Risk finding	<i>There is a residential home in the township that was originally built in the 1700's with the first floor elevation below the current base flood elevation. The structure on this property is already defined as a repetitive loss property with multiple flood insurance claims. This strategy will also apply to any existing structures built below the base flood elevation. It is hoped that this action may be applied to additional structures built below the base flood elevation, to be included in future plan updates.</i>
<b>Describing the Action</b>	
Action category	<i>Structure and Infrastructure Project</i>
Action type	<i>Objective is to mitigate financial losses resulting from storm events.</i>
Action description	<i>Elevate existing single-family home located in floodplain.</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The cumulative losses avoided by this project over time are estimated to be 350,000 dollars +/- per structure.</i>
Cost estimate	<i>Estimated implementation cost for the first structure is 150,000 dollars +/- Cost of any subsequent structures subject to similar actions would be determined on a case to case basis but anticipated to be similar.</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective with benefits provisionally estimated to exceed the projected cost</i>
Technical	<i>Elevation is technically feasible</i>
Political	<i>Government body fully supports this project</i>
Legal	<i>While the township does not own the structure there are no legal impediments.</i>
Environmental	<i>No adverse environmental impacts are anticipated</i>
Social	<i>No social group is likely to be impacted.</i>
Administrative capability	<i>Municipality has the required administrative capabilities</i>
Local champion	<i>Yes-supports townships master plan</i>
Other community objectives	<i>Improve the hydrologic function of the flood plain</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>All permitting to be managed thru the Building Dept.</i>
Responsible party	<i>Individual homeowner</i>
Potential funding sources	<i>FEMA hazard mitigation grant</i>
Time line	<i>As soon as possible subject to funding availability.</i>
<b>Reporting on Progress</b>	
Action progress status	<i>NEW</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Colts Neck Township</i>
Community action number	<i>Colts Neck Township Plan # 3</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>All Natural Hazards - Hardening of Shelters</i>
Risk finding	<i>Existing facilities designed to be utilized as shelters are currently not hardened to withstand severe weather events to protect residents from the elements. It is critical that these structures have the appropriate tools/equipment etc needed and be readily available before an event occurs.</i>
<b>Describing the Action</b>	
Action category	<i>Structure and Infrastructure Projects</i>
Action type	<i>Protection of shelters during a natural hazard</i>
Action description	<i>Protect exterior of facility by covering windows, stacking up sand bags around potential flood prone areas; providing additional embankments, supply facility with an emergency generator. There is also a need to obtain emergency equipment for use in the shelter as well as adding additional communication strategies.</i>
Existing, future &/or NA	<i>New</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The real benefits will be measures on the saving and/or the reduction of injury to human lives during such an event. By having the availability of a hardened shelter it will also minimize the need to relocate residents from one shelter to another if one shelter becomes damaged. The cumulative losses avoided could be estimated to be over \$1,000,000 dollars.</i>
Cost estimate	<i>\$150,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective with benefits provisionally estimated to exceed the projected cost</i>
Technical	<i>Technically feasible</i>
Political	<i>Government body fully supports this project</i>
Legal	<i>No legal impediments</i>
Environmental	<i>No environmental impact from this action. Will comply with environmental regulations</i>
Social	<i>Action will effect all segments of the population equally and will not disrupt established neighborhood, break up voting districts or cause relocation of low income households.</i>
Administrative capability	<i>Municipality has the required administrative capabilities</i>
Local champion	<i>Local OEM</i>
Other community objectives	<i>resident are assured and have more confidence that the township is able to assist and protect them during such an event</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Local OEM</i>
Responsible party	<i>Local OEM</i>
Potential funding sources	<i>Grant, township funding</i>
Time line	<i>ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Colts Neck Township</i>
<b>Community action number</b>	<i>Colts Neck Township Plan# 4</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Severe wind events and/or highwinds occurring from but not limited to thunderstorms, hurricanes, nor'easters etc - Tree Trimming</i>
<b>Risk finding</b>	<i>Downed trees or other structures on residential or commercial properties damaging power lines during a severe weather event which contributes to local or widespread power outages and obstructing vehicle movement on public streets.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural Project</i>
<b>Action type</b>	<i>Improvement of reliability of power lines</i>
<b>Action description</b>	<i>Trim tree branches or remove trees and/or other structures that may cause an interruption of electrical power and removing obstruction of vehicle movement on public streets.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Historically the township has experienced loss of electrical power caused by downed power lines due to tree branches and/or trees causing. Having an action plan to address this issue would benefit the general public by reducing a major safety issue by the public not being exposed to live power lines. Also the loss of business in the townships business district would be minimized due to the loss of revenues. Insurance carriers would not have to pay out any claims due to these occurrences. The infrastructure for the general public would be minimized. Losses avoided for this project could range from \$8,000 to over \$2,500,000</i>
<b>Cost estimate</b>	<i>Depending on the amount of tree and tree branches to be removed the amount would range from \$200,000 to \$500,000.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>We believe this project would be cost effective. The benefits are estimated up to 1 million dollars per occurrence and costs are between \$200,000 to \$500,000 per year depending on the amount of lines/ branches needing to be (re)moved or the areas impacted.</i>
<b>Technical</b>	<i>Trimming and/or tree removal has been effective historically thereby assisting with future reliability.</i>
<b>Political</b>	<i>This improvement would be very widely supported</i>
<b>Legal</b>	<i>The project would remove and/or trim trees near power lines owned by the township.</i>
<b>Environmental</b>	<i>Would have no adverse environmental impact</i>
<b>Social</b>	<i>Would benefit the entire township</i>
<b>Administrative capability</b>	<i>Professional tree removal companies would be hired to conduct the work, under close township supervision</i>
<b>Local champion</b>	<i>Local OEM</i>
<b>Other community objectives</b>	
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Future township projects will take into consideration the planting of trees near power lines.</i>
<b>Responsible party</b>	<i>Local OEM/Public Works</i>
<b>Potential funding sources</b>	<i>Grants</i>
<b>Time line</b>	<i>2020</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Colts Neck Township</i>
Community action number	<i>Colts Neck Township Plan# 5</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>All natural and man-made disasters -Shelters/Comfort Stations</i>
Risk finding	<i>During superstorm Sandy the township experienced extensive loss of power for an extended period of time. Since the majority of the township is supported by both individual subsurface sewage disposal systems and water wells many residents has no potable water supply and/or sewage facilities. There was a demand for the township to provide a facility(ies) providing basic living necessities (showers, laundry ect) for residents who were out of power for extended period of time.</i>
<b>Describing the Action</b>	
Action category	<i>Planning Mechanism</i>
Action type	<i>Establishment of comfort stations (shelters) in fire stations and first aid buildings to provide shelter and provide basic living services to residents during a disaster</i>
Action description	<i>The township to utilize either township facilities or other buildings in the community to temporary house residents during or after a disaster type situation.</i>
Existing, future &/or NA	<i>All</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Comfort stations are an effective method providing basic living services to large populations in need of hygienic grooming, fresh water, clean cloths, recharging electronic device ect.</i>
Cost estimate	<i>Cost is estimated at 10,000 to 100,000 per station/shelter per occurrence</i>
Cost effectiveness (i.e., benefit/cost)	<i>Comfort stations benefits are not readily quantifiable in dollar terms. Stations prevent disease, personal injury and loss of life.</i>
Technical	<i>Local fire and first aid buildings have sufficient infrastructure to host as comfort stations / shelters.</i>
Political	<i>There is community apd political desire to establish comfort stations during state's of emergencies.</i>
Legal	<i>No legal impediments</i>
Environmental	<i>No adverse environmental impacts anticipated.</i>
Social	<i>Will assist all segiments of the community equality. No distuption to neighborhoods, voting districts and will not cause relocation of lower income households.</i>
Administrative capability	<i>Yes ,but may need outside support to run comfort stations</i>
Local champion	<i>OEM / fire and first aid personnel</i>
Other community objectives	<i>N/A</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Local OEM</i>
Responsible party	<i>Local OEM</i>
Potential funding sources	<i>Grants</i>
Time line	<i>3 years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Colts Neck Township</i>
<b>Community action number</b>	<i>Colts Neck Township Plan #6</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All Types</i>
<b>Risk finding</b>	<i>The communities understanding of natural and man-made hazards as far as preparation and preventative practices could be improved. The community's overall level disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small scale mitigation activities. It is believed that promoting disaster resistant development will be critical in achieving sustainability.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Education and Community Awareness</i>
<b>Action type</b>	<i>Public Outreach</i>
<b>Action description</b>	<i>Develop a safety and public health outreach program that assists residents prepare and mitigate disasters. Develop an educational program to educate the public about hazard mitigation techniques and promote disaster-resistant development.</i>
<b>Existing, future &amp;/or NA</b>	<i>All</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Community members that are well informed, educated and follow-up on recommended mitigation practices will reduce the number of emergency calls during storm events and other natural disasters as well as protect public health and safety. Although it is difficult to fully quantify losses avoided, as are reoccurring on a annual basis, it is estimated to be at \$60,000 per year and are likely to be more than the cost estimate listed below.</i>
<b>Cost estimate</b>	<i>Minimal - Approximately \$20,000 initially with an approximate recurring annual cost of \$2,000 for the out-reach program.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Possible loss of life and the impact to public health and safety could be significant. The benefits of this project far outweigh the costs, with the benefits estimated to be on the order of \$50,000 and costs of only around \$20,000.</i>
<b>Technical</b>	<i>No technical impediments</i>
<b>Political</b>	<i>Yes- supported by township committee</i>
<b>Legal</b>	<i>Yes - supported by township committee</i>
<b>Environmental</b>	<i>N/A</i>
<b>Social</b>	<i>The project will provide outreach to the entire community.</i>
<b>Administrative capability</b>	<i>Municipality has the required administrative capabilities</i>
<b>Local champion</b>	<i>Local OEM</i>
<b>Other community objectives</b>	<i>Increase community awareness and overall resiliency to emergency situations</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Public Outreach</i>
<b>Responsible party</b>	<i>Local OEM</i>
<b>Potential funding sources</b>	<i>Local Budget, Grants</i>
<b>Time line</b>	<i>Ongoing</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough Of Deal</i>
<b>Community action number</b>	<i>1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding, hurricane and tropical storms, nor'easters</i>
<b>Risk finding</b>	<i>Above normal rainfall causes flooding on roadways and onto private property partially due to drain pipes being of insufficient size under roadways. Several roadways in the town require mitigation of drainage systems to prevent recurrent flooding. Flooding has historically been an issue from Poplar Brook at various locations through the years; particularly between Norwood Ave and Ocean Ave. Undersized culverts under roadways in three different streets along Poplar Brook result in flooding (Norwood Ave, Alymar Ave and Ocean Ave; but the Ocean Ave mitigation portion is recently completed) . Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure Projects</i>
<b>Action type</b>	<i>Drain pipe improvement</i>
<b>Action description</b>	<i>Overflow pipes need to be increased to improve waterflow during storms and reduce flooding on roadways and onto private property. Similar issue at Ocean Avenue has already been mitigated, but Norwood Avenue and Alymar Avenue remain in need of mitigation.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Property and infrastructure damage reductions as well as slowing traffic and public safety hazards would serve as long term benefit to the community. Prevention of injuries. Flooding presents a hazard for the public and to emergency responders who have to enter to render aid. Protection of Property: Reduce water damage to public and private lands as well as vehicles. Losses avoided by this mitigation project are estimated to be roughly on the order of \$100,000.00 per year per location.</i>
<b>Cost estimate</b>	<i>\$200,000.00 per location. Total - \$400,000.00 (based on a useful life of 20 years, this cost is about \$10,000.00 per year per location).</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits on the order of \$100,000.00 per site and costs on the order of \$10,000.00 per site.</i>
<b>Technical</b>	<i>One portion has already been successfully completed (Ocean Ave) so the remaining two would be similar and technically feasible.</i>
<b>Political</b>	<i>Support has been received from local governing bodies.</i>
<b>Legal</b>	<i>Both are owned by outside agencies. One by the County and one by the State. Approval is not the issue, funding is.</i>
<b>Environmental</b>	<i>Improvements to the underpasses would improve the environmental impact on the area. Flooding and erosion would be reduced.</i>
<b>Social</b>	<i>No negative social impact. Will improve the neighborhood without relocating anyone and will improve traffic flow in the area.</i>
<b>Administrative capability</b>	<i>The Borough is unable to undertake the project with its staff, an outside contractor will be used.</i>
<b>Local champion</b>	<i>The residents that live along the length of Poplar Brook are strong supporters as well as the governing body and motorists that are frequently redirected by flooding.</i>
<b>Other community objectives</b>	<i>No other objectives with this project.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Low</i>
<b>Local planning mechanism</b>	<i>Codes, Engineering, Plans, Traffic</i>
<b>Responsible party</b>	<i>Borough Administrator overseeing engineering firm</i>
<b>Potential funding sources</b>	<i>Federal and State Grants possibly related to beach replenishment project</i>
<b>Time line</b>	<i>2016</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>One third of project completed - remaining on hold until funding source is secured.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough Of Deal</i>
<b>Community action number</b>	2
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding, storm surge, hurricanes and tropical storms, nor'easters, wave action</i>
<b>Risk finding</b>	<i>Beachfront areas were significantly damaged during Hurricane Sandy. Including, but not limited to, municipal sewer facility which is located on the oceanfront. During Hurricane Sandy storm surge and waves destroyed the protective wall and infiltrated the sewerage facility causing catastrophic damage. The project will build a new protective wall that will withstand future threats from tidal surge and storm surge. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure projects</i>
<b>Action type</b>	<i>Construction of Protective Seawall around the Sewerage Facility</i>
<b>Action description</b>	<i>- A new and improved seawall will be constructed to protect the building at the sewerage facility.. The original wall was built in the 1940's and was approximately 12 inches thick and was made with simple cinderblock construction. The new wall will be a reinforced poured concrete structure with secure footings, 36 inches thick and 20 foot higher than the previous wall. It will also be placed in a more strategic position to better protect the building.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The action will be significant in protecting the critical building from storm surge and wave damage. Expenditures now will result in long term savings in repairs from future storms and interruption of service losses avoided by improving the seawall protection around the sewer treatment plant are estimated to be roughly on the order of \$8160.00 per year.</i>
<b>Cost estimate</b>	<i>\$408,000 (or, based on a useful life of 50 years, this is \$8160.00 per year)</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Property and infrastructure damage from past storms as well as the catastrophic loss from superstorm sandy show a need for better protection of this facility. Expenditures now will result in long term savings in repairs from future storms and interruption of service This project is likely to be cost effective, with benefits of \$50,000.00 per year and costs of \$8160.00 per year.</i>
<b>Technical</b>	<i>The project is technically feasible.</i>
<b>Political</b>	<i>The public welcomes and supports this project as does the governing body.</i>
<b>Legal</b>	<i>The Borough has the legal authority to undertake this project.</i>
<b>Environmental</b>	<i>The project will improve the overall appearance of the area as well as provide a safer recreational area for the public. It has no negative environmental impact and has been approved by environmental agencies.</i>
<b>Social</b>	<i>Improves the recreational area making the waterfront safer for the public and more accessible.</i>
<b>Administrative capability</b>	<i>The Borough is unable to undertake the project with its staff, an outside contractor will be used.</i>
<b>Local champion</b>	<i>All residents of the Borough benefit from the project. The governing body is a strong supporter of improving the location.</i>
<b>Other community objectives</b>	<i>Improves environmental quality, improves recreational beachfront area.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Codes, Engineering, Plans, Administrative Oversight</i>
<b>Responsible party</b>	<i>Borough Administrator overseeing engineering firm</i>
<b>Potential funding sources</b>	<i>HMGP Grant</i>
<b>Time line</b>	<i>2016- Final stages of grant application process.</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Deal</i>
<b>Community action number</b>	<i>3</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Storm surge, flooding, hurricanes, tropical storms, nor'easters, wave action, winter storms
<b>Risk finding</b>	Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	Protect Structures
<b>Action description</b>	Elevation and/or Acquisition of Floodprone Residential Structures, with particular focus on those in our community that are on FEMA's Repetitive Loss List and Severe Repetitive Loss List. New Jersey is committed to continuing the reduction of RL and SRL properties in the State; in turn, they have assigned a high priority to mitigating SRL and RL properties in the State Hazard Mitigation Plan. We are committed to supporting these projects as interested homeowners come forward and will support such homeowners, despite the loss in tax revenue, because we recognize the importance of making our community more disaster-resistant and reducing the financial burden of repetitive flooding in our community.
<b>Existing, future &amp;/or NA</b>	Existing
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Properties on FEMA's RL list have already incurred flood-related damage on two occasions, in which the cost of the repair, on average, equaled or exceeded 25% of the market value of the structure at the time of each such flood event. Properties on FEMA's SRL list have already incurred incurred flood related damage (i) For which four or more separate claims payments have been made under flood insurance coverage with the amount of each such claim exceeding \$5,000, and with the cumulative amount of such claims payments exceeding \$20,000; or (ii) For which at least two separate claims payments have been made under such coverage, with the cumulative amount of such claims exceeding the market value of the insured structure. While losses avoided by elevating or acquiring properties on FEMA's RL and SRL lists are unquantifiable until specific interested homeowners come forward, they would meet these criterion by definition, at a minimum.
<b>Cost estimate</b>	Project costs are unquantifiable at this time. They would depend on the particular home(s) in question, and the nature of the project the homeowner is interested in (acquisition, or elevation).
<b>Cost effectiveness (i.e., benefit/cost)</b>	Because our RL and SRL properties have incurred so much damage historically, it is highly probably that mitigating these properties would be cost effective. Specific determinations of cost-effectiveness would be done in the future on a case by case basis as interested homeowners come forward and project details are specified.
<b>Technical</b>	Elevation and acquisition are both technically feasible project types
<b>Political</b>	Our political leadership supports this type of project
<b>Legal</b>	While the municipality does not own the structures in question, we fully support the homeowners in moving forward
<b>Environmental</b>	No environmental impacts are anticipated at this time; this would be confirmed as specific homeowners come forward and their property details are reviewed. It is likely that environmental impacts would be positive, as household hazardous wastes are no longer introduced into floodwaters.
<b>Social</b>	No particular social group in our community is likely to be disproportionately impacted by this project; this would be re-evaluated as particular interested homeowners come forward.
<b>Administrative capability</b>	Our municipality has the administrative capabilities to manage an elevation and/or acquisition project
<b>Local champion</b>	affected homeowners, elected officials
<b>Other community objectives</b>	Improve and protect lifestyles of residents; reduction of costly property damage; resiliency; floodplain management; capital improvements
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	Homeowners; Mayor; Council; Administrator; Engineer; local ordinance; Hazard Mitigation Plan
<b>Responsible party</b>	Engineer
<b>Potential funding sources</b>	FEMA hazard mitigation grant funding streams (i.e., HMGP, FMA, etc)
<b>Time line</b>	This is projected to be an ongoing type of activity, with our municipality supporting interested parties as they come forward.
<b>Reporting on Progress</b>	
<b>Action progress status</b>	New action

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Eatontown</i>
Community action number	<i>#1</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding due to Hurricanes, tropical storms, nor'easters an strom surge flooding</i>
Risk finding	<i>Husky Brook runs through the borough, Local Officials not excess sedimentation impedes the brooks ability to drain water and in turn flooding of local areas is a result. Floodings is a recurrent issue at the Lewis Street Public Works Yard. Sea level rise and current change will contribute to more frequest and severe flooding and surge eventsover a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
Action category	<i>Structural project</i>
Action type	<i>Drainage improvement</i>
Action description	<i>We have started the process having an engineer start the planning on how to fix the problem, Possible components of the fix will be dredging of Husky Brook and improvements to the drainage system</i>
Existing, future &/or NA	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Prevent the loss of DPW equipment, truck garages and office building, we estimate that by doing this the benefits would be much higher that its cost. We are looking a a savings of around \$500,000 to 1 million</i>
Cost estimate	<i>\$150,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is expected to be cost effective with benefits of \$500,000+ and costs of \$150,000</i>
Technical	<i>project is feasible</i>
Political	<i>we have public support along with town Council on board</i>
Legal	<i>town owns property that the brook run thru</i>
Environmental	<i>We need to do an environmental impact study due to work on a waterway</i>
Social	<i>when the project starts traffic will have to re-routed around the construction site for at least 1-18 months</i>
Administrative capability	<i>once project is completed town has capabilities to maintain brook</i>
Local champion	<i>DPW, OEM</i>
Other community objectives	<i>by fixing flooding problem, we will be able to make capital imorvements to DPW yard and buildings</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Eatontown Building Department</i>
Responsible party	<i>Mayor/Council, Borough Engineer</i>
Potential funding sources	<i>local budget and grant</i>
Time line	<i>Jul-15</i>
<b>Reporting on Progress</b>	
Action progress status	<i>this is a carry over project that is waiting on funding</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-Jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Eatontown</i>
Community action number	<i>#2</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>All Hazards</i>
Risk finding	<i>Downed trees on power lines contribute to power outages during severe storms and high winds such as nor'easters, hurricanes and tropical storms, ect. Shelters do not currently have sufficient systems in place to ensure power can be maintained for telecommunications, ect.. during severe storm events. Climate change will contribute to more frequent and severe storms</i>
<b>Describing the Action</b>	
Action category	<i>Emergency Planning</i>
Action type	<i>provide power to run and operate emergency shelters</i>
Action description	<i>Install backup generators to run and operate emergency evacuation shelters. This will involve monitoring the state site on a daily basis and when we see an available generator we will start the process to acquire the generator</i>
Existing, future &/or NA	<i>N/A</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>this will prevent the loss of life and serious injury by taking the residents out of harm's way and providing them shelter during incidents. Also by using emergency generators we will not have to build a new building for an emergency evacuation shelter. These types of benefits are hard to quantify, but are high, we estimate about \$10,000 per year.</i>
Cost estimate	<i>\$40,000-\$60,000.00 Divided by the useful life of a generator of 10 years, this represents an annual cost of about \$5,000 per year</i>
Cost effectiveness (i.e., benefit/cost)	<i>It is estimated that project would be cost effective with benefits of about \$10,000 per year and costs of only about \$5,000 per year</i>
Technical	<i>project is feasible</i>
Political	<i>we have public support along with town Council and the Eatontown Board of Education</i>
Legal	<i>we have already have the permission of the Board of Education to use property to place the emergency generators on</i>
Environmental	<i>no study is needed</i>
Social	<i>will bring the community together</i>
Administrative capability	<i>once project is completed, Eatontown Board of Education will maintain generators</i>
Local champion	<i>OEM and Eatontown Board of Education</i>
Other community objectives	<i>By installing generators at the existing shelters, we will not have to build a new building</i>
<b>Implementing the Action</b>	
Priority	<i>Medium</i>
Local planning mechanism	<i>Eatontown Office of Emergency Management</i>
Responsible party	<i>Eatontown Office of Emergency Management</i>
Potential funding sources	<i>local budget and grant</i>
Time line	<i>Sep-14</i>
<b>Reporting on Progress</b>	
Action progress status	<i>this is a carry over project that is waiting on funding and the availability of generators that are on the NJ GXXS program</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Eatontown</i>
<b>Community action number</b>	3
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Storm surge, flooding, hurricanes, tropical storms, nor'easters, wave action, winter storms
<b>Risk finding</b>	Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	Protect Structures
<b>Action description</b>	Elevation and/or Acquisition of Floodprone Residential Structures, with particular focus on those in our community that are on FEMA's Repetitive Loss List and Severe Repetitive Loss List. New Jersey is committed to continuing the reduction of RL and SRL properties in the State; in turn, they have assigned a high priority to mitigating SRL and RL properties in the State Hazard Mitigation Plan. We are committed to supporting these projects as interested homeowners come forward and will support such homeowners, despite the loss in tax revenue, because we recognize the importance of making our community more disaster-resistant and reducing the financial burden of repetitive flooding in our community.
<b>Existing, future &amp;/or NA</b>	Existing
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Properties on FEMA's RL list have already incurred flood-related damage on two occasions, in which the cost of the repair, on average, equaled or exceeded 25% of the market value of the structure at the time of each such flood event. Properties on FEMA's SRL list have already incurred flood related damage (i) For which four or more separate claims payments have been made under flood insurance coverage with the amount of each such claim exceeding \$5,000, and with the cumulative amount of such claims payments exceeding \$20,000; or (ii) For which at least two separate claims payments have been made under such coverage, with the cumulative amount of such claims exceeding the market value of the insured structure. While losses avoided by elevating or acquiring properties on FEMA's RL and SRL lists are unquantifiable until specific interested homeowners come forward, they would meet these criterion by definition, at a minimum.
<b>Cost estimate</b>	Project costs are unquantifiable at this time. They would depend on the particular home(s) in question, and the nature of the project the homeowner is interested in (acquisition, or elevation).
<b>Cost effectiveness (i.e., benefit/cost)</b>	Because our RL and SRL properties have incurred so much damage historically, it is highly probably that mitigating these properties would be cost effective. Specific determinations of cost-effectiveness would be done in the future on a case by case basis as interested homeowners come forward and project details are specified.
<b>Technical</b>	Elevation and acquisition are both technically feasible project types
<b>Political</b>	Our political leadership supports this type of project
<b>Legal</b>	While the municipality does not own the structures in question, we fully support the homeowners in moving forward
<b>Environmental</b>	No environmental impacts are anticipated at this time; this would be confirmed as specific homeowners come forward and their property details are reviewed. It is likely that environmental impacts would be positive, as household hazardous wastes are no longer introduced into floodwaters.
<b>Social</b>	No particular social group in our community is likely to be disproportionately impacted by this project; this would be re-evaluated as particular interested homeowners come forward.
<b>Administrative capability</b>	Our municipality has the administrative capabilities to manage an elevation and/or acquisition project
<b>Local champion</b>	affected homeowners, elected officials
<b>Other community objectives</b>	Improve and protect lifestyles of residents; reduction of costly property damage; resiliency; floodplain management; capital improvements
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	Homeowners; Mayor; Council; Administrator; Engineer; local ordinance; Hazard Mitigation Plan
<b>Responsible party</b>	Administrator
<b>Potential funding sources</b>	FEMA hazard mitigation grant funding streams (i.e., HMGP, FMA, etc)
<b>Time line</b>	This is projected to be an ongoing type of activity, with our municipality supporting interested parties as they come forward.
<b>Reporting on Progress</b>	
<b>Action progress status</b>	New action

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Englishtown Borough</i>
Community action number	<i>1</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, hurricanes, tropical storms, nor'easters</i>
Risk finding	<i>Heavy sediments deposits, debris and fallen trees, in segments of Weamaconk Creek and McGellairds Brook contribute to flooding of properties during heavy rain events, nor'easters and hurricanes, and the spring thaw</i>
<b>Describing the Action</b>	
Action category	<i>Natural Systems Protection</i>
Action type	<i>Improve stormwater drainage system capacity</i>
Action description	<i>Use stream restoration to ensure adequate drainage and diversion of stormwater. Conduct routine stream maintenance to remove sediment, debris, and fallen trees. Coordinate with County Bridge Department and Mosquito Control Commission to perform stream cleaning and maintenance at Weamaconk Creek and McGellairds Brook.</i>
Existing, future &/or NA	<i>Both</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>This action will be significant to reduce damage to building structures and municipal and County infrastructure. Losses avoided are estimated to be \$300,000 annually.</i>
Cost estimate	<i>The cost is estimated to be \$20,000 annually</i>
Cost effectiveness (i.e., benefit/cost)	<i>The cost to implement this project is small compared to potential financial losses to property. This project is cost effective, with benefits on the order of \$300,00 and costs on the order of \$20,000 annually.</i>
Technical	<i>This mitigation action is technically feasible</i>
Political	<i>There is both political and public support for this mitigation action</i>
Legal	<i>The Borough can implement this mitigation action with the proper permits</i>
Environmental	<i>There are no environmental impacts associated with this mitigation action</i>
Social	<i>This mitigation action will have no social impacts</i>
Administrative capability	<i>Outside help to implement this mitigation action will be necessary</i>
Local champion	<i>The Mayor and Council will advocate for this mitigation action</i>
Other community objectives	<i>This mitigation action improves the quality of life to property owners adjacent to the streams that traverse the Borough</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Permits and coordination with County agencies</i>
Responsible party	<i>Thomas J Herits PE PP PLS</i>
Potential funding sources	<i>Grants, assistance from the County agencies</i>
Time line	<i>Summer 2015</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward from the 2009 plan.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Englishtown Borough</i>
Community action number	2
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>All</i>
Risk finding	<i>Downed trees on power lines contribute to power outages during severe storms with high winds such as nor'easters, hurricanes, tropical storms, etc. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
Action category	<i>Structure and infrastructure projects</i>
Action type	<i>Protect critical facilities</i>
Action description	<i>Installation of emergency generator and ATS to power the water wells, treatment facilities, and DPW Garage to supply potable water and fire protection to the Borough's water customers in time of power outages which can occur during all types of natural hazard events but have been most common during high wind events, hurricanes and tropical storms, and nor'easters.</i>
Existing, future &/or NA	<i>N/A</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>This action will be significant to supply potable water and fire protection, as well as, Emergency Management functions. Benefits also include reduced risks to health, safety and welfare. Losses avoided are estimate to be approximately \$500,000.</i>
Cost estimate	<i>\$100,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is cost effective with estimated benefits of over \$1,000,000 over the lifetime of the generator and the one-time cost of \$100,000</i>
Technical	<i>This mitigation action is technically feasible</i>
Political	<i>There is both political and public support for this mitigation action</i>
Legal	<i>The Borough can implement this mitigation action with the proper permits</i>
Environmental	<i>There are no environmental impacts associated with this mitigation action</i>
Social	<i>This mitigation action will have no social impacts</i>
Administrative capability	<i>The Borough can implement this mitigation action with its personnel</i>
Local champion	<i>The Mayor and Council, and OEM, will advocate for this mitigation action</i>
Other community objectives	<i>This mitigation action improves the quality of life to property owners adjacent to the streams that traverse the Borough</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Bid documents</i>
Responsible party	<i>Thomas J Herits PE PP PLS</i>
Potential funding sources	<i>Grants, local budget if required</i>
Time line	<i>Summer 2015. Borough has applied for a FEMA Grant to implement this action.</i>
<b>Reporting on Progress</b>	
Action progress status	<i>The Borough has applied for a FEMA Grant to implement this mitigation action.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Englishtown</i>
<b>Community action number</b>	3
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Storm surge, flooding, hurricanes, tropical storms, nor'easters, wave action, winter storms
<b>Risk finding</b>	Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	Protect Structures
<b>Action description</b>	Elevation and/or Acquisition of Floodprone Residential Structures, with particular focus on those in our community that are on FEMA's Repetitive Loss List and Severe Repetitive Loss List. New Jersey is committed to continuing the reduction of RL and SRL properties in the State; in turn, they have assigned a high priority to mitigating SRL and RL properties in the State Hazard Mitigation Plan. We are committed to supporting these projects as interested homeowners come forward and will support such homeowners, despite the loss in tax revenue, because we recognize the importance of making our community more disaster-resistant and reducing the financial burden of repetitive flooding in our community.
<b>Existing, future &amp;/or NA</b>	Existing
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Properties on FEMA's RL list have already incurred flood-related damage on two occasions, in which the cost of the repair, on average, equaled or exceeded 25% of the market value of the structure at the time of each such flood event. Properties on FEMA's SRL list have already incurred flood related damage (i) For which four or more separate claims payments have been made under flood insurance coverage with the amount of each such claim exceeding \$5,000, and with the cumulative amount of such claims payments exceeding \$20,000; or (ii) For which at least two separate claims payments have been made under such coverage, with the cumulative amount of such claims exceeding the market value of the insured structure. While losses avoided by elevating or acquiring properties on FEMA's RL and SRL lists are unquantifiable until specific interested homeowners come forward, they would meet these criterion by definition, at a minimum.
<b>Cost estimate</b>	Project costs are unquantifiable at this time. They would depend on the particular home(s) in question, and the nature of the project the homeowner is interested in (acquisition, or elevation).
<b>Cost effectiveness (i.e., benefit/cost)</b>	Because our RL and SRL properties have incurred so much damage historically, it is highly probably that mitigating these properties would be cost effective. Specific determinations of cost-effectiveness would be done in the future on a case by case basis as interested homeowners come forward and project details are specified.
<b>Technical</b>	Elevation and acquisition are both technically feasible project types
<b>Political</b>	Our political leadership supports this type of project
<b>Legal</b>	While the municipality does not own the structures in question, we fully support the homeowners in moving forward
<b>Environmental</b>	No environmental impacts are anticipated at this time; this would be confirmed as specific homeowners come forward and their property details are reviewed. It is likely that environmental impacts would be positive, as household hazardous wastes are no longer introduced into floodwaters.
<b>Social</b>	No particular social group in our community is likely to be disproportionately impacted by this project; this would be re-evaluated as particular interested homeowners come forward.
<b>Administrative capability</b>	Our municipality has the administrative capabilities to manage an elevation and/or acquisition project
<b>Local champion</b>	affected homeowners, elected officials
<b>Other community objectives</b>	Improve and protect lifestyles of residents; reduction of costly property damage; resiliency; floodplain management; capital improvements
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	Homeowners; Mayor; Council; Administrator; Engineer; local ordinance; Hazard Mitigation Plan
<b>Responsible party</b>	Construction official
<b>Potential funding sources</b>	FEMA hazard mitigation grant funding streams (i.e., HMGP, FMA, etc)
<b>Time line</b>	This is projected to be an ongoing type of activity, with our municipality supporting interested parties as they come forward.
<b>Reporting on Progress</b>	
<b>Action progress status</b>	New action

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>FAIR HAVEN, BOROUGH</i>
Community action number	<i>1</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>High winds and high wind events such as nor'easters, hurricanes, tropical storms, winter storms, thunderstorms, etc.</i>
Risk finding	<i>Downed trees on power lines contribute to power outages during severe storms with high winds such as nor'easter, hurricanes, and tropical storms, etc.</i>
<b>Describing the Action</b>	
Action category	<i>STRUCTURAL PROJECT</i>
Action type	<i>IMPROVEMENT OF RELIABILITY OF POWER LINES</i>
Action description	<i>REMOVE POLES ANDBURY OVERHEAD POWER TRANSMISSION LINES UNDER GROUND IN THE AREA OF TOWN THAT HAS THE MOST POTENTIAL FOR POWER LINE FAILURE</i>
Existing, future &/or NA	<i>Existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>EVERY YEAR WE HAVE LIVE POWER LINES COME DOWN IN TOWN, FAIR HAVEN HAS A LARGE POPULATION OF SCHOOL AGE CHILDREN WHO MAY ACCIDENTLY BE INJURED OR KILLED BY THESE LIVE POWER LINES. IN ADDITION, BENEFIT WOULD BE THE SAFETY TO ANYONE WHO MAY COME IN CONTACT WITH LIVE WIRES COST BENEFIT IS EVERY TIME WITH LOSS OF POWER ALL BUSINESSES MUST CLOSE AND INFRASTRUCTURE FOR THE BOROUGH IS DISRUPTED. Losses avoided for this project range could range from \$ 10,000 to \$ 2,000,000.</i>
Cost estimate	<i>DEPENDING ON THE AMOUNT OF LINES MOVED OR THE AREA ANYWHERE BETWEEN \$100,000 TO \$2,000,000.</i>
Cost effectiveness (i.e., benefit/cost)	<i>THIS PROJECT IS LIKELY TO BE COST EFFECTIVE. BENEFITS ARE ESTIMATED BETWEEN \$10,000 AND \$2,000,000 AND COSTS ARE BETWEEN \$100,000 AND \$2,000,000 DEPENDING ON THE AMOUNT OF LINES MOVED OR THE AREA.</i>
Technical	<i>ALTHOUGH THE COST IS HIGH IT HAS BEEN DONE IN OTHER TOWNS AND HAS IMPROVED RELIABILITY.</i>
Political	<i>ANY IMPROVEMENT WOULD BE WELL SUPPORTED</i>
Legal	<i>THE COMMUNITY DOESN'T OWN THE POWER LINES OR POLES, BUT IF THEY PAID FOR PROJECT THEY WILL MOVE TO UNDER GROUND.</i>
Environmental	<i>PROJECT WILL HAVE NO ENVIRONMENTAL IMPACT.</i>
Social	<i>PROJECT WILL BENEFIT THE ENTIRE TOWN</i>
Administrative capability	<i>POWER LINES ARE OWNED AND MAINTAINED BY JCP&amp;L</i>
Local champion	<i>ALL BOROUGH DEPARTMENTS ARE SUPPORTIVE OF PLAN</i>
Other community objectives	<i>BY REMOVING POLES AND OVERHEAD WIRES FROM STREETS IT WOULD IMPROVE LANDSCAPE OF AREA</i>
<b>Implementing the Action</b>	
Priority	<i>HIGH</i>
Local planning mechanism	<i>REQUIRE FUTURE PROJECTS TO PLACE TRANSMISSION LINES UNDERGROUND</i>
Responsible party	<i>LT. JOSEPH MCGOVERN, FAIR HAVEN OEM</i>
Potential funding sources	<i>GRANTS</i>
Time line	<i>2020</i>
<b>Reporting on Progress</b>	
Action progress status	<i>THIS PROJECT HAS BEEN CARRIED OVER FROM THE LAST VERSION OF THE PLAN. THERE IS NO PROGRESS SINCE LAST REPORT</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>FAIR HAVEN, BOROUGH</i>
Community action number	2
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>High winds and high wind events such as nor'easters, hurricanes, tropical storms, winter storms, thunderstorms, etc.</i>
Risk finding	<i>Downed trees on power lines contribute to power outages during severe storms with high winds such as nor'easter, hurricanes, and tropical storms, etc.</i>
<b>Describing the Action</b>	
Action category	<i>STRUCTURAL PROJECT</i>
Action type	<i>IMPROVEMENT OF RELIABILITY OF POWER LINES</i>
Action description	<i>REMOVE OR TRIM LARGE BOROUGH TREES NEAR POWER TRANSMISSION LINES</i>
Existing, future &/or NA	<i>Existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>EVERY YEAR WE HAVE LIVE POWER LINES COME DOWN IN TOWN, FAIR HAVEN HAS A LARGE POPULATION OF SCHOOL AGE CHILDREN WHO MAY ACCIDENTLY BE INJURED OR KILLED BY THESE LIVE POWER LINES. IN ADDITION, BENEFIT WOULD BE THE SAFETY TO ANYONE WHO MAY COME IN CONTACT WITH LIVE WIRES COST BENEFIT IS EVERY TIME WITH LOSS OF POWER ALL BUSINESSES MUST CLOSE AND INFRASTRUCTURE FOR THE BOROUGH IS DISRUPTED. Losses avoided for this project range could range from \$ 10,000 to \$ 2,000,000 per occurrence.</i>
Cost estimate	<i>DEPENDING ON THE AMOUNT OF TREES BEING REMOVED ANYWHERE BETWEEN \$100,000 TO \$ 200,000.</i>
Cost effectiveness (i.e., benefit/cost)	<i>THIS PROJECT IS LIKELY TO BE COST EFFECTIVE. BENEFITS ARE ESTIMATED BETWEEN \$10,000 AND \$2,000,000 PER OCCURRENCE AND COSTS ARE BETWEEN \$100,000 AND \$200,000 DEPENDING ON THE AMOUNT OF LINES MOVED OR THE AREA.</i>
Technical	<i>TREE REMOVAL AND TRIMMING HAS BEEN DONE IN OTHER AREA, HELPING WITH FUTURE RELIABILITY</i>
Political	<i>ANY IMPROVEMENT WOULD BE WELL SUPPORTED</i>
Legal	<i>THE BOROUGH WOULD REMOVE OR TRIM ALL TREES OWNED BY THEM NEAR POWER LINES.</i>
Environmental	<i>PROJECT WILL HAVE NO ENVIRONMENTAL IMPACT.</i>
Social	<i>PROJECT WILL BENEFIT THE ENTIRE TOWN</i>
Administrative capability	<i>TREES EXyERTS WOULD BE HIRED TO COMPLETE PROJECT</i>
Local champion	<i>ALL BOROUGH DEPARTMENTS ARE SUPPORTIVE OF PLAN</i>
Other community objectives	<i>BY REMOVING/TRIMMING THE TREES FROM STREETS IT WOULD IMPROVE LANDSCAPE OF AREA</i>
<b>Implementing the Action</b>	
Priority	<i>HIGH</i>
Local planning mechanism	<i>REQUIRE FUTURE PROJECTS TO NOT PLACE LARGE TREES NEAR TRANSMISSION LINES</i>
Responsible party	<i>LT. JOSEPH MCGOVERN, FAIR HAVEN OEM</i>
Potential funding sources	<i>GRANTS</i>
Time line	<i>2020</i>
<b>Reporting on Progress</b>	
Action progress status	<i>THIS PROJECT HAS BEEN CARRIED OVER FROM THE LAST VERSION OF THE PLAN. THERE IS NO PROGRESS SINCE LAST REPORT</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>FAIR HAVEN, BOROUGH</i>
Community action number	<i>3</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>ALL HAZARDS</i>
Risk finding	<i>WHENEVER BOROUGH HALL AND DPW BUILDINGS LOSE POWER THESE BUILDINGS CAN NOT OPERATE AND THEREFORE THE BOROUGH CANNOT OPERATE BUSINESS.</i>
<b>Describing the Action</b>	
Action category	<i>STRUCTURAL PROJECT</i>
Action type	<i>NATURAL GAS GENERATOR BOROUGH HALL/DPW BUILDING</i>
Action description	<i>INSTALLATION OF NATURAL GAS GENERATOR BOROUGH HALL/DPW BUILDING FOR LOSS OF POWER IN BUILDINGS</i>
Existing, future &/or NA	<i>Existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>WHENEVER BOROUGH LOSES POWER THESE ABOVE BUILDINGS CAN NOT OPERATE AND THEREFORE THE BOROUGH CANNOT OPERATE BUSINESS. Losses avoided for this project range could range from \$ 10,000 to \$100,000 per occurrence.</i>
Cost estimate	<i>\$72,000.00 FOR BOTH BUILDINGS</i>
Cost effectiveness (i.e., benefit/cost)	<i>EVERY DAY THAT THESE BUILDINGS ARE NOT OPEN THE BOROUGH CANNOT CONDUCT BUSINESS. THIS PROJECT IS LIKELY TO BE COST EFFECTIVE. BENEFITS ARE ESTIMATED BETWEEN \$10,000 AND \$100,000 PER OCCURRENCE AND COSTS ARE ONLY \$72,000.</i>
Technical	<i>INSTALL CONTINUES USE NATURAL GAS GENERATORS</i>
Political	<i>WOULD BE WELL SUPPORTED</i>
Legal	<i>THE BOROUGH WOULD PURCHASE GENERATORS AND LICENSE ELECTRICIAN WOULD INSTALL.</i>
Environmental	<i>PROJECT WILL HAVE NO ENVIRONMENTAL IMPACT.</i>
Social	<i>PROJECT WILL BENEFIT THE ENTIRE TOWN</i>
Administrative capability	<i>BOROUGH ENGINEER HAS SPEC OUT GENERATORS</i>
Local champion	<i>ALL BOROUGH DEPARTMENTS ARE SUPPORTIVE OF PLAN</i>
Other community objectives	
<b>Implementing the Action</b>	
Priority	<i>HIGH</i>
Local planning mechanism	<i>N/A</i>
Responsible party	<i>LT. JOSEPH MCGOVERN, FAIR HAVEN OEM</i>
Potential funding sources	<i>GRANTS</i>
Time line	<i>JULY, 2014</i>
<b>Reporting on Progress</b>	
Action progress status	<i>NEW PROJECT - IN PROCESS OF COMPLETING GRANT APPROVAL FROM STATE</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>FAIR HAVEN, BOROUGH</i>
Community action number	<i>4</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>FLOODING AND STORM SURGE that can occur during events such as severe storms, thunderstorms, winter storms and nor'easters, hurricanes, and tropical storms.</i>
Risk finding	<i>Mapped flood hazard areas are limited very close to the shoreline of the Navesink and its tributaries; though areas mapped as potentially susceptible to storm surge in Fair Haven are fairly extensive. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.</i>
<b>Describing the Action</b>	
Action category	<i>STRUCTURAL</i>
Action type	<i>ACQUISITION</i>
Action description	<i>PURCHASE PROPERTY THE END OF FAIR HAVEN RD (21 FAIR HAVEN RD) DEMOLISH HOUSE AND LEAVE AS OPEN SPACE (PARK). PROPERTY IS LOCATED IN A LOW LYING AREA ON THE NAVESINK RIVER</i>
Existing, future &/or NA	<i>PROTECTS FUTURE DEVELOPMENT</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Losses avoided for this project range could range from \$ 50,000 to \$1,000,000 per occurrence.</i>
Cost estimate	<i>Costs for this project range could range from \$ 600,000 to \$ 1,000,000.</i>
Cost effectiveness (i.e., benefit/cost)	<i>THIS PROJECT IS LIKELY TO BE COST EFFECTIVE. BENEFITS ARE ESTIMATED BETWEEN \$50,000 AND \$1,000,000 PER OCCURRENCE AND COSTS ARE ONLY from \$ 600,000 to</i>
Technical	<i>ACTION IS FEASIBLE</i>
Political	<i>YES</i>
Legal	<i>PROPERTY IS PRIVATELY OWNED AND WOULD HAVE TO BE PURCHASED</i>
Environmental	<i>NO ENVIRONMENTAL IMPACT</i>
Social	<i>PROJECT WOULD BENEFIT ENTIRE TOWN</i>
Administrative capability	<i>BOROUGH HAS THE ABILITY TO MAINTAIN PROPERTY IF PURCHASED</i>
Local champion	<i>ALL BOROUGH DEPARTMENTS ARE SUPPORTIVE OF PLAN</i>
Other community objectives	<i>WOULD CREATE OPEN SPACE AND A PARK</i>
<b>Implementing the Action</b>	
Priority	<i>MEDIUM</i>
Local planning mechanism	<i>DO NOT ALLOW BUILDING ON PROPERTY</i>
Responsible party	<i>LT. JOSEPH MCGOVERN, FAIR HAVEN OEM</i>
Potential funding sources	<i>GRANTS</i>
Time line	<i>2020</i>
<b>Reporting on Progress</b>	
Action progress status	<i>NEW PROJECT</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Howell Township/Farmingdale</i>
<b>Community action number</b>	<i>1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All natural hazards</i>
<b>Risk finding</b>	<i>The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities and were better able to shelter in place.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Education and Awareness Programs</i>
<b>Action type</b>	<i>Increase hazard education and risk awareness</i>
<b>Action description</b>	<i>Mass mailing to all residents to obtain contact info of all residents (email list) for constant contact, updates, and education of Township operations regarding Emergencies</i>
<b>Existing, future &amp;/or NA</b>	<i>NA</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>This communication and information will empower citizens to make better decisions, increase better planning around township emergencies (staying away from risks). It will empower emergency response personnel to mitigate risks by informing people to either stay home, steer clear, evacuate, etc. This will allow smoother operations for the Township. Losses avoided are difficult to quantify but are inclusive of preventing injuries and loss of life as well as preventing property damages through homeowner mitigation efforts, and these are likely to be well over the project costs of \$15,000 per year.</i>
<b>Cost estimate</b>	<i>\$15,000/year</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits estimated to be well in excess of project costs of \$15,000 per year.</i>
<b>Technical</b>	<i>Yes</i>
<b>Political</b>	<i>Yes</i>
<b>Legal</b>	<i>Yes</i>
<b>Environmental</b>	<i>N/A</i>
<b>Social</b>	<i>Entire Township</i>
<b>Administrative capability</b>	<i>Yes</i>
<b>Local champion</b>	<i>Yes</i>
<b>Other community objectives</b>	<i>Improves overall Communications from Government to Resident</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>EOP communication annex.</i>
<b>Responsible party</b>	<i>Dan Foglia - OEM Coordinator</i>
<b>Potential funding sources</b>	<i>local budget</i>
<b>Time line</b>	<i>Summer 2014</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New Action</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Howell Township/Farmingdale</i>
Community action number	<i>2</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>All Natural Hazards</i>
Risk finding	<i>Existing shelters are not designed to withstand hazards to which they are exposed during severe storm events. In order to best serve the community during natural disasters, identified pre-existing Shelters must be hardened to improve safety and resiliency during and after the event.</i>
<b>Describing the Action</b>	
Action category	<i>Structure and Infrastructure projects</i>
Action type	<i>Protect critical facilities used for sheltering</i>
Action description	<i>Harden Shelter physically by shielding windows, adding sand bags, adding embankments. Internally will add communication capabilities, add additional emergency supplies (first aid, water, cots, MREs,ec)</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Hardening pre-existing shelters will minimize the need to move citizens from shelter to shelter if the hazard overwhelms the structure. This will also allow HTOEM to stock shelters permanently with supplies ready for a sudden hazard that requires sheltering. Losses avoided are estimated to be \$1,000,000.</i>
Cost estimate	<i>\$120,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits of \$1,000,000 on the cost of \$120,000.</i>
Technical	<i>Yes</i>
Political	<i>Yes</i>
Legal	<i>Yes</i>
Environmental	<i>Yes</i>
Social	<i>Yes</i>
Administrative capability	<i>Yes</i>
Local champion	<i>Yes</i>
Other community objectives	<i>Improves faith and piece of mind for all residents in township emergency operations.</i>
<b>Implementing the Action</b>	
Priority	<i>Medium</i>
Local planning mechanism	<i>EOP Shelter Annex.</i>
Responsible party	<i>HTOEM</i>
Potential funding sources	<i>PDMP, FMAP, EMPG, HLS</i>
Time line	<i>ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>carried forward</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Howell Township/Farmingdale</i>
Community action number	<i>3</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, surge, durrricanes and tropical storms, nor'easters</i>
Risk finding	<i>Areas of township are prone to severe river flooding, including normal rainfall. While Howell is not located along the coast, some of its streams are susceptible to storm surge flooding.</i>
<b>Describing the Action</b>	
Action category	<i>Structure and infrastructure projects</i>
Action type	<i>Elevate structures</i>
Action description	<i>Raise identified structures to safe height to not allow for floodin.</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Potential loss of life will be avoided as well as structure damage and potential collapse. Elevation will also be preventing constant dispatch of emergency personnel and supplies to support victims of flooding. Losses avoided are estimated to be in excess of project costs.</i>
Cost estimate	<i>\$3,000,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits on the order of \$5 million and costs of \$3 million.</i>
Technical	<i>Yes</i>
Political	<i>Yes</i>
Legal	<i>Yes</i>
Environmental	<i>Yes</i>
Social	<i>Yes</i>
Administrative capability	<i>Yes</i>
Local champion	<i>Yes</i>
Other community objectives	<i>Perserve Life</i>
<b>Implementing the Action</b>	
Priority	<i>Medium</i>
Local planning mechanism	<i>Town Master Plan</i>
Responsible party	<i>HTOEM</i>
Potential funding sources	<i>PDMP, FMAP, EMPG, HLS</i>
Time line	<i>ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Howell Township/Farmingdale</i>
Community action number	<i>4</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>All Hazards</i>
Risk finding	<i>Emergency operations center lacks redundant systems (power and communication) to maintain critical functions before, during and after a disaster.</i>
<b>Describing the Action</b>	
Action category	<i>Structure and infrastructure projects</i>
Action type	<i>Protect critical facilities</i>
Action description	<i>'Improve communications of EOC and Dispatch. EOC needs communication equipment including all office equipment, and Redundant Dispatch system needs to be upgraded.</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Loss of robust communications between ALL response agencies will be avoided to best carry out operations during a hazard. The project will improve collective and organized response from all emergency agencies in township. Losses avoided are estimated to be in excess of projects costs.</i>
Cost estimate	<i>\$750,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits of preservation of life on the cost of \$750,000 .</i>
Technical	<i>Yes</i>
Political	<i>Yes</i>
Legal	<i>Yes</i>
Environmental	<i>Yes</i>
Social	<i>Yes</i>
Administrative capability	<i>Yes</i>
Local champion	<i>Yes</i>
Other community objectives	
<b>Implementing the Action</b>	
Priority	<i>Medium</i>
Local planning mechanism	<i>EOP - 'EOC and Communications Annexes</i>
Responsible party	<i>HTOEM, HTPD</i>
Potential funding sources	<i>PDMP, FMAP, EMPG, HLS, Local Budget</i>
Time line	<i>ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>carried forward</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Howell Township/Farmingdale</i>
<b>Community action number</b>	<i>5</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All Hazards</i>
<b>Risk finding</b>	<i>Downed trees on power lines contribute to power outages during severe storms with high winds such as nor'easters hurricanes, and tropical storms, etc. Power outages have impacted emergency services, water purification systems, and shelters that lack secondary power sources.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and infrastructure projects</i>
<b>Action type</b>	<i>Protect critical facilities</i>
<b>Action description</b>	<i>Power for essential equipment to sustain Continuity of Operations during hazards that cause loss of power.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Loss of communication and operations will be avoided to allow for response procedures to continue during power loss. Losses avoided are estimated to be in excess of project costs.</i>
<b>Cost estimate</b>	<i>\$100,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits of well in excess of costs of \$100,000.</i>
<b>Technical</b>	<i>Yes</i>
<b>Political</b>	<i>Yes</i>
<b>Legal</b>	<i>Yes</i>
<b>Environmental</b>	<i>Yes</i>
<b>Social</b>	<i>Yes</i>
<b>Administrative capability</b>	<i>Yes</i>
<b>Local champion</b>	<i>Yes</i>
<b>Other community objectives</b>	<i>Improved Communications and Response.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>EOP - 'Emergency Response Annex</i>
<b>Responsible party</b>	<i>HTOEM, HTPD, HTDPW</i>
<b>Potential funding sources</b>	<i>PDMP, FMAP, EMPG, HLS, Local Budget</i>
<b>Time line</b>	<i>ongoing</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Howell Township/Farmingdale</i>
<b>Community action number</b>	<i>6</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All Hazards</i>
<b>Risk finding</b>	<i>Power outages have impacted emergency services, water purification systems, and shelters that lack secondary power sources. Power outages for water purification systems results in contaminated Water during hazards.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and infrastructure projects</i>
<b>Action type</b>	<i>Protect critical facilities</i>
<b>Action description</b>	<i>During outages contaminated water needs to be purified and potable to disseminate to residents in shelters and all other needed areas so backup systems are needed to sustain purified water.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The project will keep residents healthy and not requiring additional EMS response to sick residents. While difficult to quantify, this is considered to be well in excess of the project costs.</i>
<b>Cost estimate</b>	<i>\$100,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits in excess of project costs.</i>
<b>Technical</b>	<i>Yes</i>
<b>Political</b>	<i>Yes</i>
<b>Legal</b>	<i>Yes</i>
<b>Environmental</b>	<i>Yes</i>
<b>Social</b>	<i>Yes</i>
<b>Administrative capability</b>	<i>Yes</i>
<b>Local champion</b>	<i>Yes</i>
<b>Other community objectives</b>	<i>Public Health</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>EOP - 'Shelter &amp; Public Health Annex</i>
<b>Responsible party</b>	<i>HTOEM, Health</i>
<b>Potential funding sources</b>	<i>PDMP, FMAP, EMPG, HLS, Local Budget</i>
<b>Time line</b>	<i>ongoing</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Freehold Borough</i>
<b>Community action number</b>	<i>Project #1 - Update generator for Firehouse Emergency Operations Center</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Loss of power at Emergency Operation Center due to Hurricane, tropical storm, nor'easter, winter storm, heavy winds</i>
<b>Risk finding</b>	<i>Critical facilities are particularly susceptible to power outages where backup power does not exist; this is a significant issue at the emergency operations center. The Firehouse EOC is used as the OEM Emergency Operations Center for Emergency Management, fire operations, police operations and EMS Operations</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Emergency Generator</i>
<b>Action type</b>	<i>Acquisition of emergency generator for EOC</i>
<b>Action description</b>	<i>Upgarde the current and outdated generator at the Firehouse which houses the Emergency Operations Center for OEM, Fire Department, Police Department and EMS</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Prevent injury and loss of life by continuing the dispatching and response of Emergency Services during times of severe weather and other evenys. These types of losses avoided are hard to quantify, but it is likely that damages avoided by maintaining backup power at this EOC could be at least \$20,000 per year borough-wide (which, over the next 5 year planning cycle = \$100,000) - even more as soon as a single life is saved.</i>
<b>Cost estimate</b>	<i>100, 000.00 in total. The useful life of the generator is about 30 years, so annual costs are about \$3,330.00per year.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Based on the loss of power in Freehold Borough due to the outdated electrical grid and the possibility of falling trees and brancheswhich could shut down power in the whole Borough. The project is likely to be cost effective. Losses avoided would be about \$10,000.00 per year and costs would only be about \$ 5,000.00 per year.</i>
<b>Technical</b>	<i>It is technically feasible</i>
<b>Political</b>	<i>Political actions present in support of the project</i>
<b>Legal</b>	<i>No legal issues</i>
<b>Environmental</b>	<i>Generator will be diesel, which is what is presently there and location has already been established. Generator output size will be increased to handle future additional electrical loads.</i>
<b>Social</b>	<i>No social impact expected, it will not affect any Residential Areas and replace existing generator.</i>
<b>Administrative capability</b>	<i>Borough Engineer</i>
<b>Local champion</b>	<i>Elected Officials, Borough Administrator, OEM, Fire Department Officials, Police Department Officials, and EMS Officials.</i>
<b>Other community objectives</b>	<i>None with this project</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Borough Adminstrator, Engineer, OEM, Fire, Police and EMS</i>
<b>Responsible party</b>	<i>Borough Adminstrator, Engineer, OEM,</i>
<b>Potential funding sources</b>	<i>Federal and State Grantsand some local funding</i>
<b>Time line</b>	<i>2015</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried over from the last version of the plan</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Freehold Borough</i>
<b>Community action number</b>	<i>Project #2 - Emergency Generator for Evacuation Center</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Loss of power at Evacuation Center due to Hurricane, tropical storm, nor'easter, winter storm, heavy winds</i>
<b>Risk finding</b>	<i>Critical facilities are particularly susceptible to power outages where backup power does not exist; this is a significant issue at schools that are designated as evacuation centers/shelters. The Freehold Learning Center is used in major storm events for sheltering and reception center needs upgraded emergency generators for power.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Emergency Generator</i>
<b>Action type</b>	<i>Purchasing of emergency generator for shelter</i>
<b>Action description</b>	<i>Upgrade of current generator at the Freehold Learning Center used as an evacuation center</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Prevent injury and loss of life by providing a location that first responders and the public can go for shelter during severe weather events. These types of losses avoided are hard to quantify, but it is likely that damages avoided by maintaining backup power at this shelter and being able to safely and securely house evacuees, particularly those who may need power to operate life saving equipment that they may require, preventing injuries and saving lives could be at least \$20,000 per year borough-wide (which, over the next 5 year planning cycle = \$100,000) - even more as soon as a single life is saved.</i>
<b>Cost estimate</b>	<i>100,000 in total. The useful life of the generator is about 30 years, so annual costs are about \$3,330.00 per year.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Based on the loss of power in Freehold Borough due to the outdated electrical grid and the possibility of falling trees and branches which could shut down power in the whole Borough. The chance during severe weather events have increased and the chance of needing shelter has increased. The project is likely to be cost effective. Losses avoided would be about \$10,000.00 per year and costs would only be about \$5,000.00 per year.</i>
<b>Technical</b>	<i>Technically feasible, yes</i>
<b>Political</b>	<i>Political actions are present in support of this project</i>
<b>Legal</b>	<i>No legal issues, agreements in place for use of building as shelter.</i>
<b>Environmental</b>	<i>None anticipated, location of generator would not impact area</i>
<b>Social</b>	<i>No social impact</i>
<b>Administrative capability</b>	<i>Engineering</i>
<b>Local champion</b>	<i>Borough Administrator, OEM, School Administrators, Board of Education.</i>
<b>Other community objectives</b>	<i>No other objectives with this project</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Borough Administrator, OEM, School Maintenance, Engineer</i>
<b>Responsible party</b>	<i>Borough Administrator, School Maintenance, Engineer</i>
<b>Potential funding sources</b>	<i>Federal, state and county grants</i>
<b>Time line</b>	<i>2016</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried over from the last version of the plan</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Freehold Borough</i>
<b>Community action number</b>	<i>Project #3 Outreach Program and Emergency Notification / Everbridge Reverse 911</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>- All</i>
<b>Risk finding</b>	<i>The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Emergency Notification System</i>
<b>Action type</b>	<i>Continuation of Notification System</i>
<b>Action description</b>	<i>System that is presently in place will lose grant funding and will be continued for notification of first responders and public in emergencies</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Prevent injury and loss of life by early notification of severe weather events and other emergencies. These types of losses avoided are hard to quantify, but it is likely that damages avoided by individuals making more informed decisions to protect themselves and their families and their personal property during hazard occurrences would be at the very least \$5,000 per year borough-wide (which, over the next 5 year planning cycle = \$25,000)</i>
<b>Cost estimate</b>	<i>10,000 total (which, over the next 5 year planning cycle, is about \$2,000 per year).</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Notification of first responders and the public is critical in emergencies and severe weather events. The project is likely to be cost effective. Losses avoided are likely to be at least \$25,000 while total costs are about \$10,000.</i>
<b>Technical</b>	<i>Technically feasible; Yes</i>
<b>Political</b>	<i>Political actions are present in support of this project</i>
<b>Legal</b>	<i>No legal issues; system in place</i>
<b>Environmental</b>	<i>No environmental issues anticipated</i>
<b>Social</b>	<i>No social impact; system in place</i>
<b>Administrative capability</b>	<i>Borough Administrator</i>
<b>Local champion</b>	<i>Borough Administrator, Elected Officials, OEM, Fire Department Officials, Police Department Officials, EMS Officials</i>
<b>Other community objectives</b>	<i>Outreach Program to public</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Borough Administrator, OEM, Fire, Police and EMS Officials</i>
<b>Responsible party</b>	<i>Borough Administrator and OEM</i>
<b>Potential funding sources</b>	<i>Federal, state, county grants or local funding source</i>
<b>Time line</b>	<i>2014</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried over from the last version of the plan</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Freehold Borough</i>
<b>Community action number</b>	<i>Project #4 - Removal of dead and hazardous trees</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All events that include high winds including wind only, thunderstorms, hurricanes, tropical storms, nor'easters, winter storms, etc</i>
<b>Risk finding</b>	<i>Downed trees on power lines contribute to power outages during severe storms with high winds such as nor'easter, hurricanes, and tropical storms, etc. There is more emphasis on a shade tree program to remove trees that are a hazard since the Borough of Freehold experienced the Super Cell Storm in July 2012 and Hurricane Sandy in 2012.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Natural Resources Protection</i>
<b>Action type</b>	<i>Vegetation management</i>
<b>Action description</b>	<i>Shade tree program to remove trees and limbs that are dead or hazardous and in the area where they could fall on powerlines.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Losses avoided by maintaining power are hard to quantify. We estimate that losses avoided could be \$100,000.00 per year.</i>
<b>Cost estimate</b>	<i>Annual costs to dispatch crews for this project are estimated to be \$50,000.00 per year</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>The project is likely to be cost effective. Losses avoided are likely to be \$100,000.00 per year while costs are about \$50,000.00 per year.</i>
<b>Technical</b>	<i>Technically feasible; Yes</i>
<b>Political</b>	<i>Political actions are present in support of this project</i>
<b>Legal</b>	<i>No legal issues; system in place</i>
<b>Environmental</b>	<i>No environmental issues anticipated</i>
<b>Social</b>	<i>No social impact; system in place</i>
<b>Administrative capability</b>	<i>Borough Administrator</i>
<b>Local champion</b>	<i>Borough Administrator , Elected Officials, OEM, Fire Department Officials, Police Department Officials, EMS Officials, Shade Tree Commission</i>
<b>Other community objectives</b>	<i>Shade tree program</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Borough Administrator, OEM, Fire, Police and EMS Officials, Shade Tree Commission</i>
<b>Responsible party</b>	<i>Borough Administrator and OEM, Shade Tree Commission</i>
<b>Potential funding sources</b>	<i>Federal, state, county grants or local funding source</i>
<b>Time line</b>	<i>2014</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Freehold Township</i>
<b>Community action number</b>	<i>1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Storm sewer outfall scouring and erosion exacerbated during severe rain storms, hurricanes, tropical storms and certain nor'easters.</i>
<b>Risk finding</b>	<i>Undermining and damage to storm drainage pipe and flared end section at the top of a steep embankment (Rose Court, at the end of the cul-de-sac). Continued exposure to erosion will lead to further destruction to the adjacent storm drainage system as well the cause the flared end section to separate and fall off of the embankment. The continued erosion represent a environmental impact as well as a potential impact to existing structures and development.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural</i>
<b>Action type</b>	<i>Stabilization and drainage improvement</i>
<b>Action description</b>	<i>Location: Rose Court, at the end of the cul-de-sac. Remediation of this hazard will include; excavation and removal of the existing storm drainage pipe and flared end section, stabilization of stream banks, replacement of storm pipe, installation of a new drainage structure at a lower elevation, and installation of a flared end section. The banks of the stream and the area around the flared end section will be stabilized with river stone and/or gabion baskets.</i>
<b>Existing, future &amp;/or NA</b>	<i>This action would protect existing development and improvements.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Further environmental impacts, damage to improvements, and impacts to existing development will be avoided by remediating this hazard. Losses avoided by the project are unknown but are estimated to be roughly on the order of \$ <u>2,000,000</u>.</i>
<b>Cost estimate</b>	<i>Unknown (though estimated to be on the order of \$ <u>500,000</u>).</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>The losses avoided are outweighed by the cost of this project (with benefits on the order of \$ <u>2,000,000</u> and costs on the order of \$ <u>500,000</u>).</i>
<b>Technical</b>	<i>This action is technically feasible</i>
<b>Political</b>	<i>The potential for political and public support does exist for this project.</i>
<b>Legal</b>	<i>The Township does have the legal authority to implement this project.</i>
<b>Environmental</b>	<i>The completion of this project would reduce the overall environmental impact to the tributaries in the area.</i>
<b>Social</b>	<i>Proposed action will have little affect on neighboring residents. No neighborhoods, voting districts, or persons of lower income will be affect.</i>
<b>Administrative capability</b>	<i>While an outside contractor will be required to complete the rehabilitation work the township does have the personnel and administrative capability to implement this action.</i>
<b>Local champion</b>	<i>The engineering department is the advocate for this project.</i>
<b>Other community objectives</b>	<i>This action will meet other objectives including capital improvement and environmental.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>The engineering department will implement and oversee this project.</i>
<b>Responsible party</b>	<i>Township Engineer</i>
<b>Potential funding sources</b>	<i>Federal or state grants</i>
<b>Time line</b>	<i>2015</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action - Preliminary inspection and evaluation of the area is completed. The township is in the beginning phases of developing a plan and alternatives to remediate this situation.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Freehold Township</i>
<b>Community action number</b>	<i>2</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding during severe rain storms, hurricanes, tropical storms and certain nor'easters.</i>
<b>Risk finding</b>	<i>The existing culvert at Plymouth Drive (Structure No. 1316X68) over the Tributary to the Manasquan River is in poor condition and has advanced section loss to the primary structural elements. Continued exposure to average and high frequency storms will further degrade the structure and lead to failure. The structure should rehabilitated.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural / Natural Resource Protection</i>
<b>Action type</b>	<i>Replacement of culvert</i>
<b>Action description</b>	<i>Culvert is located on Plymouth Drive in Freehold Township NJ structure number 1316X68. Rehabilitation of the structure will include repairing the existing voids behind the side walls of the culvert with a concrete type material, lining the culvert with a high-density polyethylene elliptical pipe and grouting the annular space between the existing culvert and the lining. In conjunction with repair to the culvert rehabilitation to the adjacent embankments to prevent undermining and reduce or eliminate erosion.</i>
<b>Existing, future &amp;/or NA</b>	<i>Protects existing development</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Replacement of this culvert will eliminate the potential risk of roadway settlement, failure, and collapse. This reduces the potential impact to human life as well as environmental impacts to the tributary should the culvert continue to erode or fail. This action will save the community money in the long term through the reduced or eliminated impacts to the tributary and the public. Additionally, the reduction or elimination of continued maintenance and repair costs. Losses avoided though unknown are estimated to be roughly on the order of \$ 750,000.</i>
<b>Cost estimate</b>	<i>The cost of this project is estimated to \$ <u>250,000</u>.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits on the order of \$<u>750,000</u> and costs on the order of \$ <u>250,000</u>.</i>
<b>Technical</b>	<i>The action is feasible.</i>
<b>Political</b>	<i>The potential for public and political support for this action does exist.</i>
<b>Legal</b>	<i>Freehold Township does have the authority to implement this action.</i>
<b>Environmental</b>	<i>This action will comply with environmental actions as well as reduce or eliminate environmental impacts that are a direct result of the existing hazard.</i>
<b>Social</b>	<i>The neighboring residential properties will only be affected during the construction. This action will <u>not</u> disrupt established neighborhoods, break up voting districts, or cause the relocation of lower income people.</i>
<b>Administrative capability</b>	<i>The Township does have the personnel and administrative capabilities to implement, maintain, and inspect the action however, a contractor will be required in order to complete the demolition and construction.</i>
<b>Local champion</b>	<i>A strong advocate for the action among local departments will support the implementation</i>
<b>Other community objectives</b>	<i>This action will further other community objectives including capital improvements and environmental quality.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Engineering will be used to implement the action</i>
<b>Responsible party</b>	<i>Township Engineer</i>
<b>Potential funding sources</b>	<i>Federal or state grants</i>
<b>Time line</b>	<i>Target completion of fall 2015</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New Action - Culvert has been evaluated, and analyzed by an outside consultant. Three alternatives have been provided and are being evaluated by the township engineering office.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Freehold Township</i>
Community action number	3
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding during severe rain storms, hurricanes, tropical storms and certain nor'easters.</i>
Risk finding	<i>'The existing culvert at Hampton Drive (Structure No. 1316X57) over the Tributary to the Manasquan River is in poor condition and has advanced section loss to the primary structural elements. Continued exposure to average and high frequency storms will further degrade the structure and lead to failure. The structure should rehabilitated.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>Rehabilitation and improvement to structure.</i>
Action description	<i>Culvert is located on Hampton Drive in Freehold Township NJ structure number 1316X57. Rehabilitation of the structure will include repairing the existing voids behind the side walls of the culvert with a concrete type material, lining the culvert with a high-density polyethylene elliptical pipe and grouting the annular space between the existing culvert and the lining. In conjunction with repair to the culvert rehabilitation to the adjacent embankments to prevent undermining and reduce or eliminate erosion.</i>
Existing, future &/or NA	<i>This action will protect existing development.</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>This action will eliminate the potential damage to and/or failure of the structure. By mitigating the risk of further damage and/or failure the risk of injury or loss of life is also mitigated. Losses avoided are unknown although estimated to be \$ <u>750,000</u>.</i>
Cost estimate	<i>\$275,000 - \$325,000 to complete the required rehabilitation</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits of \$ <u>750,000</u> in excess of average estimated project costs of approximately \$300,000. The potential loss and continued environmental impact that will be mitigated outweigh the cost of the work.</i>
Technical	<i>This action is technically feasible.</i>
Political	<i>There is potential for political and public support for this action.</i>
Legal	<i>NJ DEP permits will be required for the work however, the township does have the authority to implement the action.</i>
Environmental	<i>This action will comply with all environmental regulations. The completion of this action will mitigate the erosion of the Tributary.</i>
Social	<i>This action will temporarily affect the neighboring properties during construction however, there will be no long term disruption to neighborhoods, voting districts, or lower income people.</i>
Administrative capability	<i>While a contractor will be needed to complete the rehabilitation work the township does have the personnel and administrative capability to implement and maintain the action.</i>
Local champion	<i>The township as a whole will support this action.</i>
Other community objectives	<i>This action will meet other community objectives including capital improvements and environmental quality.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Township Engineering Department will implement and oversee this action</i>
Responsible party	<i>Township Engineer</i>
Potential funding sources	<i>Federal or state grants</i>
Time line	<i>Spring 2015</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New action - Preliminary evaluation has been completed and alternative solutions have been provided by an outside consultant for township review and consideration.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Freehold Township</i>
Community action number	<i>4</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding during severe rain storms, hurricanes, tropical storms and certain nor'easters.</i>
Risk finding	<i>The existing culvert at Medford Boulevard (Structure No. 1316X64) over the Tributary to the Manasquan River is in poor condition and has advanced section loss to the primary structural elements. Continued exposure to average and high frequency storms will further degrade the structure and lead to failure. The structure should be rehabilitated.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>Rehabilitation and improvement to structure.</i>
Action description	<i>Culvert is located on Medford Boulevard in Freehold Township NJ structure number 1316X64. Rehabilitation of the structure will include repairing the existing voids behind the side walls of the culvert with a concrete type material, lining the culvert with a high-density polyethylene elliptical pipe and grouting the annular space between the existing culvert and the lining. In conjunction with repair to the culvert rehabilitation to the adjacent embankments to prevent undermining and reduce or eliminate erosion.</i>
Existing, future &/or NA	<i>This action will protect existing development.</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>This action will eliminate the potential damage to and/or failure of the structure. By mitigating the risk of further damage and/or failure the risk of injury or loss of life is also mitigated. Losses avoided are unknown but estimated to be \$ 750,000.</i>
Cost estimate	<i>\$450,000 - \$500,000 to complete the required rehabilitation.</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits of \$ 750,000 in excess of average estimated project costs of approximately \$ 475,000. The potential loss and continued environmental impact that will be mitigated outweigh the cost of the work.</i>
Technical	<i>This action is technically feasible.</i>
Political	<i>There is potential for political and public support for this action.</i>
Legal	<i>NJDEP permits will be required for the work however, the township does have the authority to implement the action.</i>
Environmental	<i>This action will comply with all environmental regulations. The completion of this action will mitigate the erosion of the Tributary.</i>
Social	<i>This action will temporarily affect the neighboring properties during construction however, there will be no long term disruption to neighborhoods, voting districts, or lower income people.</i>
Administrative capability	<i>While a contractor will be needed to complete the rehabilitation work the township does have the personnel and administrative capability to implement and maintain the action.</i>
Local champion	<i>The township as a whole will support this action.</i>
Other community objectives	<i>This action will meet other community objectives including capital improvements and environmental quality.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Township Engineering Department will implement and oversee this action</i>
Responsible party	<i>Township Engineer</i>
Potential funding sources	<i>Federal or state grants</i>
Time line	<i>Spring 2015</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New action - Preliminary evaluation has been completed and alternative solutions have been provided by an outside consultant for township review and consideration.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Freehold Township</i>
Community action number	5
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Erosion, flooding exacerbated during severe rain storms, hurricanes, tropical storms and certain nor'easters.</i>
Risk finding	<i>Heavy sediment, and vegetative, deposits and manmade debris in certain stream segments contribute to flooding during heavy rain events, nor'easters and hurricanes, etc. Damage to existing and future development and improvements.</i>
<b>Describing the Action</b>	
Action category	<i>Natural resource protection, structural protection, environmental protection.</i>
Action type	<i>Cleaning and desnagging of streams for improved storm water management.</i>
Action description	<i>Clean vegetative and man made debris, logs, and other items that are contributing to erosion, reducing capacity, or causing over saturation or flood issues.</i>
Existing, future &/or NA	<i>This action would protect both existing and future development and improvements.</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>This action would reduce erosion and flooding impacts and damage to structures. Losses avoided though unknown, are expected to be roughly \$ <u>5,000,000</u>.</i>
Cost estimate	<i>Time &amp; material cost unknown at this time, though roughly estimated to be on the order of \$ <u>500,000</u></i>
Cost effectiveness (i.e., benefit/cost)	<i>The potential losses avoided from this hazard outweigh the cost (with \$ <u>5,000,000</u> in benefits expected, as compared to \$ <u>500,000</u> in costs).</i>
Technical	<i>This action is feasible.</i>
Political	<i>The potential for political and public support does exist.</i>
Legal	<i>While DEP permits will be required the township does have the authority to implement this action.</i>
Environmental	<i>The environmental impacts will be reduced as a result of this action. This action will comply with all environmental regulations.</i>
Social	<i>The proposed action will <u>not</u> adversely affect the population, break up neighborhoods, voting districts, or lower income people.</i>
Administrative capability	<i>The township does have the administrative and personnel capability to implement this action.</i>
Local champion	<i>The engineering department is the advocate for this project.</i>
Other community objectives	<i>This project will help accomplish other objectives including reducing environmental impacts, and improving storm water management and water quality.</i>
<b>Implementing the Action</b>	
Priority	<i>Medium</i>
Local planning mechanism	<i>Engineering department will implement and oversee this action in conjunction with the township Public Works Department.</i>
Responsible party	<i>Township Engineer, Superintendent of Public Works</i>
Potential funding sources	<i>Federal or state grants</i>
Time line	<i>Starting summer 2014 and continuing.</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward - The township is in preliminary phases of identifying and prioritizing streams for cleaning.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Freehold Township</i>
<b>Community action number</b>	<i>6</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All hazards</i>
<b>Risk finding</b>	<i>The general public's understanding of natural hazards and mitigation possibilities could be improved. By the year 2040, it is projected to have a population increase of 16.3% over 2010 values, exposing more people to hazards. The community's overall level of disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Public Education</i>
<b>Action type</b>	<i>Provide information and training to township residents, increase awareness, and preparedness.</i>
<b>Action description</b>	<i>Provide information and links to websites where residents can obtain more information about preparedness, water quality, and emergency alerts.</i>
<b>Existing, future &amp;/or NA</b>	<i>N/A - This action will aid in the townships readiness.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>This action will result in a community better prepared to handle potential events and hazards. Losses avoided by outreach and education are hard to quantify, but in general, we feel they are likely to be more than the project's costs of \$ <u>10,000</u>.</i>
<b>Cost estimate</b>	<i>Costs are hard to quantify at this time; however, we expect that they will be less than \$ <u>10,000</u>.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>We expect that this action is likely to be cost effective, with benefits at least equal to, if not more than, project costs (where benefits are estimated at more than \$ <u>10,000</u> and costs are estimated to be less than \$ <u>10,000</u>. Educating residents to be prepared and ready for potential events and hazards outweighs the cost of potential damage caused by same.</i>
<b>Technical</b>	<i>This action is feasible</i>
<b>Political</b>	<i>Political and public support does exist to support this action.</i>
<b>Legal</b>	<i>The township does have the authority to implement this action.</i>
<b>Environmental</b>	<i>none</i>
<b>Social</b>	<i>This action will not negatively affect any segment of the population.</i>
<b>Administrative capability</b>	<i>The township does have the administrative and personnel capabilities to implement this plan.</i>
<b>Local champion</b>	<i>Advocacy for this action within the township does exist.</i>
<b>Other community objectives</b>	
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>Multiple township departments</i>
<b>Responsible party</b>	<i>Multiple township departments</i>
<b>Potential funding sources</b>	<i>Federal or state grants</i>
<b>Time line</b>	<i>Ongoing</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward - Water quality initiatives and emergency alert notification system are in place.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Freehold Township</i>
<b>Community action number</b>	<i>7</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Wind, nor'easters, hurricanes, tropical storms, winter storms</i>
<b>Risk finding</b>	<i>Downed trees on power lines contribute to power outages during severe storms with high winds such as nor'easter, hurricanes, and tropical storms, etc. Climate change will contribute to more frequent and severe weather events. Power outages impact the Township's ability to maintain critical services and public safety. Power failure may result in lack of water and sewer service for township.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure Projects</i>
<b>Action type</b>	<i>Protection of infrastructure and critical facilities</i>
<b>Action description</b>	<i>Purchase a mobile emergency generator to enable back up electricity at each water and sewer pump station location.</i>
<b>Existing, future &amp;/or NA</b>	<i>N/A - This action will aid in the townships readiness.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>This action will result in a community better prepared to handle potential events and hazards. The actual value of the losses avoided are unknown however, they generally estimated to be on the order of \$ <u>2,000,000</u>.</i>
<b>Cost estimate</b>	<i>Project costs are estimated to be approximately \$ <u>100,000</u>.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits likely to be approximately \$ <u>2,000,000</u> as compared to costs on the order of \$ <u>100,000</u>.Purchase of the unit to enable back up electricity at each pump station location will outweigh the potential costs associated with the loss of water or sewer service.</i>
<b>Technical</b>	<i>This action is feasible</i>
<b>Political</b>	<i>Political and public support does exist to support this action.</i>
<b>Legal</b>	<i>The township does have the authority to implement this action.</i>
<b>Environmental</b>	<i>Sewage back-up and overflow into local storm sewer or tributaries will be avoided</i>
<b>Social</b>	<i>This action will not negatively affect any segment of the population.</i>
<b>Administrative capability</b>	<i>The township does have the administrative and personnel capabilities to implement this plan.</i>
<b>Local champion</b>	<i>Advocacy for this action within the township does exist.</i>
<b>Other community objectives</b>	
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Purchase of unit will be implemented by appropriate township personne.</i>
<b>Responsible party</b>	<i>Superintendent of Utilities</i>
<b>Potential funding sources</b>	<i>HMGP</i>
<b>Time line</b>	<i>2014</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Freehold Township</i>
<b>Community action number</b>	<i>8</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Wildfires</i>
<b>Risk finding</b>	<i>Freehold Township has a moderate extent of land in mapped high or extreme wildfire risk areas. Most at-risk areas are in the southern half of the township.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Fire Prevention</i>
<b>Action type</b>	<i>Natural resource, environmental, and structural protection.</i>
<b>Action description</b>	<i>Evaluation of risk areas, Operational planning, Land Use Planning, and Education.</i>
<b>Existing, future &amp;/or NA</b>	<i>This action would protect both existing and future development.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Losses avoided are unknown but are generally estimated to be on the order of \$ <u>10,000,000</u>.</i>
<b>Cost estimate</b>	<i>Project costs are estimated to be approximately \$ <u>300,000</u>.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits likely to be approximately \$ <u>10,000,000</u> as compared to costs on the order of \$ <u>300,000</u>.</i>
<b>Technical</b>	<i>This action is feasible.</i>
<b>Political</b>	<i>The potential for political and public support does exist.</i>
<b>Legal</b>	
<b>Environmental</b>	<i>The environmental impacts will be reduced as a result of this action. This action will comply with all environmental regulations.</i>
<b>Social</b>	<i>The proposed action will <u>not</u> adversely affect the population, break up neighborhood, voting districts, or lower income people.</i>
<b>Administrative capability</b>	<i>The township does have the administrative and personnel capability to implement this action.</i>
<b>Local champion</b>	<i>The Fire Department and Engineering Department will be the advocates for this project.</i>
<b>Other community objectives</b>	<i>This project...</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>State Forest Fire Service, Local Fire Department, Emergency Management</i>
<b>Responsible party</b>	<i>Fire Department</i>
<b>Potential funding sources</b>	<i>Federal or State Grants</i>
<b>Time line</b>	<i>Ongoing</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action</i>

## Action Worksheet

<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Freehold Township</i>
<b>Community action number</b>	<i>2</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Storm surge, flooding, hurricanes, tropical storms, nor'easters, wave action, winter storms
<b>Risk finding</b>	Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	Protect Structures
<b>Action description</b>	Elevation and/or Acquisition of Floodprone Residential Structures, with particular focus on those in our community that are on FEMA's Repetitive Loss List and Severe Repetitive Loss List. New Jersey is committed to continuing the reduction of RL and SRL properties in the State; in turn, they have assigned a high priority to mitigating SRL and RL properties in the State Hazard Mitigation Plan. We are committed to supporting these projects as interested homeowners come forward and will support such homeowners, despite the loss in tax revenue, because we recognize the importance of making our community more disaster-resistant and reducing the financial burden of repetitive flooding in our community.
<b>Existing, future &amp;/or NA</b>	Existing
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Properties on FEMA's RL list have already incurred flood-related damage on two occasions, in which the cost of the repair, on average, equaled or exceeded 25% of the market value of the structure at the time of each such flood event. Properties on FEMA's SRL list have already incurred incurred flood related damage (i) For which four or more separate claims payments have been made under flood insurance coverage with the amount of each such claim exceeding \$5,000, and with the cumulative amount of such claims payments exceeding \$20,000; or (ii) For which at least two separate claims payments have been made under such coverage, with the cumulative amount of such claims exceeding the market value of the insured structure. While losses avoided by elevating or acquiring properties on FEMA's RL and SRL lists are unquantifiable until specific interested homeowners come forward, they would meet these criterion by definition, at a minimum.
<b>Cost estimate</b>	Project costs are unquantifiable at this time. They would depend on the particular home(s) in question, and the nature of the project the homeowner is interested in (acquisition, or elevation).
<b>Cost effectiveness (i.e., benefit/cost)</b>	Because our RL and SRL properties have incurred so much damage historically, it is highly probably that mitigating these properties would be cost effective. Specific determinations of cost-effectiveness would be done in the future on a case by case basis as interested homeowners come forward and project details are specified.
<b>Technical</b>	Elevation and acquisition are both technically feasible project types
<b>Political</b>	Our political leadership supports this type of project
<b>Legal</b>	While the municipality does not own the structures in question, we fully support the homeowners in moving forward
<b>Environmental</b>	No environmental impacts are anticipated at this time; this would be confirmed as specific homeowners come forward and their property details are reviewed. It is likely that environmental impacts would be positive, as household hazardous wastes are no longer introduced into floodwaters
<b>Social</b>	No particular social group in our community is likely to be disproportionately impacted by this project; this would be re-evaluated as particular interested homeowners come forward.
<b>Administrative capability</b>	Our municipality has the administrative capabilities to manage an elevation and/or acquisition project
<b>Local champion</b>	affected homeowners, elected officials
<b>Other community objectives</b>	Improve and protect lifestyles of residents; reduction of costly property damage; resiliency; floodplain management; capital improvements
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	Homeowners; Mayor; Council; Administrator; Engineer; local ordinance; Hazard Mitigation Plan
<b>Responsible party</b>	Emergency Management
<b>Potential funding sources</b>	FEMA hazard mitigation grant funding streams (i.e., HMGP, FMA, etc)
<b>Time line</b>	This is projected to be an ongoing type of activity, with our municipality supporting interested parties as they come forward.
<b>Reporting on Progress</b>	
<b>Action progress status</b>	New action

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Hazlet Township</i>
Community action number	1
<b>Assessing the Risk</b>	
Hazard(s) addressed	Flooding during periods of heavy rain and nor'easters, hurricanes and tropical storms.
Risk finding	During major storms, there are areas within the township where creeks overflow due to debris and sedimentation causing flooding of properties and buildings.
<b>Describing the Action</b>	
Action category	Natural Resource Protection
Action type	Stream corridor restoration
Action description	Mosquito Commission cleaning debris and sediment from many creeks and waterways at Township requests, to improve carrying capacity of flood flows and reduce overbank flooding.
Existing, future &/or NA	This will protect both existing and future development
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	We hope this will reduce flooding to properties and buildings within the township and contiguous flood hazard zones. Avoided losses are estimated to be approximately one million dollars.
Cost estimate	Land acquisition cost - under negotiation/confident. The final cost could range from about \$ 250,000 - 450,000. Currently under court order sale.
Cost effectiveness (i.e., benefit/cost)	This project will save the community money in the long run with benefits ranging from \$500,000 to 1,000,000.
Technical	This action is technically feasible.
Political	There is support from both the township committee as well as the county government for this action.
Legal	<i>Does the community have the authority to implement the action?</i> Most of the work yes, excluding NJDEP approvals.
Environmental	- No negative impacts; positive improvements for environment. - Will it comply with environmental regulations? Yes.
Social	This action will affect numerous sections of the township. It should not disrupt any neighborhoods.
Administrative capability	The majority of this action will be done by the Monmouth County Road Department with assistance from the Hazlet Township Road Dept.
Local champion	Hazlet Environmental Commission.
Other community objectives	Environmental quality and open space preservation.
<b>Implementing the Action</b>	
Priority	This is a high priority action
Local planning mechanism	Master Plan and Open Space Plan
Responsible party	Dennis Pino, Acting Township Administrator
Potential funding sources	Unknown at this time
Time line	2015
<b>Reporting on Progress</b>	
Action progress status	This is a new action.

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Hazlet Township</i>
<b>Community action number</b>	2
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Drainage system features in certain areas of the town are contributing to flooding during periods of heavy rain and nor'easters, hurricanes, tropical storms.
<b>Risk finding</b>	During major storms, there are areas within the township where drainage systems overflow causing flooding street, properties and buildings.
<b>Describing the Action</b>	
<b>Action category</b>	Structural Project
<b>Action type</b>	Improved stormwater drainage system capacity; improved stormwater drainage system inspection and maintenance program
<b>Action description</b>	Township wide storm water system maintenance and upgrades. Cleaning all lines, televising, and replacing inlets and catch basins throughout the entire system - township wide.
<b>Existing, future &amp;/or NA</b>	This will protect both existing and future development
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	This should reduce flooding to streets, properties and buildings within the township. Losses avoided could range from about \$500,000 to \$750,000 per year.
<b>Cost estimate</b>	100K - 2014 costs.
<b>Cost effectiveness (i.e., benefit/cost)</b>	This project is likely to be cost effective and will save the community approximately \$500,000 to \$750,000 annually costing \$80,000 to 100,000 per year.
<b>Technical</b>	This action is technically feasible.
<b>Political</b>	- <i>Is there overall public support for the mitigation action?</i> <b>Yes</b> - <i>Is there the political will to support it?</i> <b>Yes</b>
<b>Legal</b>	- <i>Does the community have the authority to implement the action?</i> <b>Yes.</b>
<b>Environmental</b>	Positive protection of the system and waterways as a result of the improvements.
<b>Social</b>	This action will affect numerous sections of the township. There may be some minor disruption to traffic in affected areas.
<b>Administrative capability</b>	Township personnel will administer and maintain this project.
<b>Local champion</b>	Township Committee and Environmental Commission.
<b>Other community objectives</b>	Capital improvements.
<b>Implementing the Action</b>	
<b>Priority</b>	This is a high priority action
<b>Local planning mechanism</b>	NJDEPE Storm Water Regulations.
<b>Responsible party</b>	Dave Rooke, Head, Public Works Department
<b>Potential funding sources</b>	Unknown- Township
<b>Time line</b>	2015
<b>Reporting on Progress</b>	
<b>Action progress status</b>	This is a new action. Effective 1/1/2014.

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Hazlet Township</i>
<b>Community action number</b>	<i>3</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Flooding during periods of heavy rain and nor'easters, hurricanes, and tropical storms.
<b>Risk finding</b>	Climate change will contribute to more frequent and severe weather events, and, along with sea level rise, will exacerbate flooding.
<b>Describing the Action</b>	
<b>Action category</b>	Natural Resource Protection
<b>Action type</b>	Preserve floodplains as open space
<b>Action description</b>	Purchase of McNamy property in partnership with Port Authority to preserve floodways and mitigate flood losses.
<b>Existing, future &amp;/or NA</b>	This will protect both existing and future development
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	We hope this will reduce flooding to properties and buildings within the township and contiguous flood hazard zones. Avoided loses are estimated to be approximately one million dollars.
<b>Cost estimate</b>	Land acquisition cost - under negotiation/confident. The final cost could range from about \$ 250,000 - 450,000. Currently under court order sale.
<b>Cost effectiveness (i.e., benefit/cost)</b>	This project is likely to be cost effective and will cost approximatley \$250,000 - 450,000 saving the community money in the long run with benefits ranging from \$800,000 to 1,000,000.
<b>Technical</b>	This action is technically feasible.
<b>Political</b>	There is support from both the township committee as well as the county government for this action.
<b>Legal</b>	<i>Does the community have the authority to implement the action?</i> Most of the work yes, excluding NJDEP approvals.
<b>Environmental</b>	- No negative impacts; positive improvements for environment. - Will it comply with environmental regulations? Yes.
<b>Social</b>	This action will affect numerous sections of the township. It should not disrupt any neighborhoods.
<b>Administrative capability</b>	The majority of this action will be done by the Monmouth County Road Department with assistance from the Hazlet Township Road Dept.
<b>Local champion</b>	Hazlet Environmental Comission.
<b>Other community objectives</b>	Environmental quality and open space preservation.
<b>Implementing the Action</b>	
<b>Priority</b>	This is a high priority action
<b>Local planning mechanism</b>	Master Plan and Open Space Plan
<b>Responsible party</b>	Dennis Pino, Acting Township Administrator
<b>Potential funding sources</b>	Unknown at this time
<b>Time line</b>	2015
<b>Reporting on Progress</b>	
<b>Action progress status</b>	This is a new action.

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Hazlet Township</i>
<b>Community action number</b>	4
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Flooding during periods of heavy rain and nor'easters, hurricanes and tropical storms. Elevation of Residential Structures
<b>Risk finding</b>	During major storms, there are areas within the township where flooding occurs. Elevating homes above the best available flood data will reduce loss.
<b>Describing the Action</b>	
<b>Action category</b>	State Mitigation Plan - Elevation of Residential Dwellings.
<b>Action type</b>	Support - Elevation of Residential Dwellings.
<b>Action description</b>	Support resident applications and provide assistance to the fullest extent possible in regards to the elevation of existing properties within the flood zone and under the known elevations.
<b>Existing, future &amp;/or NA</b>	This will protect both existing and future development
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	We hope this will mitigate existing flood related issues and reduce flooding to existing properties and buildings within the township.
<b>Cost estimate</b>	There is no known cost to the Township.
<b>Cost effectiveness (i.e., benefit/cost)</b>	This project is likely to be 100% cost effective, there are no known cost values at this time.
<b>Technical</b>	This action is technically feasible.
<b>Political</b>	There is support from both the township committee as well as the county government for this action.
<b>Legal</b>	The administration has the authority to implement these programs.
<b>Environmental</b>	- No negative impacts; positive improvements for environment. - Will it comply with environmental regulations? Yes.
<b>Social</b>	This action will affect over 1,000 households within the township and will not disrupt any neighborhoods.
<b>Administrative capability</b>	The majority of this action will be performed by the State of New Jersey under various grant programs.
<b>Local champion</b>	Hazlet Floodplain Administrator
<b>Other community objectives</b>	Environmental quality and open space preservation.
<b>Implementing the Action</b>	
<b>Priority</b>	This is a high priority action
<b>Local planning mechanism</b>	Master Plan and Open Space Plan
<b>Responsible party</b>	Dennis Pino, Acting Township Administrator
<b>Potential funding sources</b>	Unknown at this time
<b>Time line</b>	2015
<b>Reporting on Progress</b>	
<b>Action progress status</b>	This is a new action.

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Highlands</i>
<b>Community action number</b>	<i>1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding, storm surge, wave action, hurricane and tropical storm, nor'easter</i>
<b>Risk finding</b>	<i>Structures and property are routinely subject to various damage due to storm related and tidal events. Most of Highlands (from the Bay up to Shore Drive) is in the mapped special flood hazard area. Severe storm events in recent years, particularly Hurricane Sandy, have devastated the Borough. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure Projects</i>
<b>Action type</b>	<i>Elevation and floodproofing</i>
<b>Action description</b>	<i>Thorough plan review and guidance to property owners in the downtown area to elevate residences and floodproofing of multifamily and commercial structures.</i>
<b>Existing, future &amp;/or NA</b>	<i>Addresses existing and new structures</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Losses avoided are estimated to be on the order of \$2,500 per year, per property.</i>
<b>Cost estimate</b>	<i>\$100,000/property assuming a useful life of 40 years, this is a cost of about \$2,500 per year per property</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits estimated to be equal to project costs.</i>
<b>Technical</b>	<i>The mitigated properties see a long term benefit as damages from flooding are greatly reduced.</i>
<b>Political</b>	<i>The entire Governing Body supports this effort.</i>
<b>Legal</b>	<i>Legal issues may arise if substantially damaged properties are not mitigated.</i>
<b>Environmental</b>	<i>No adverse impacts environmentally</i>
<b>Social</b>	<i>Supported by majority of the Borough as it will assist in stabilizing property values and taxes.</i>
<b>Administrative capability</b>	<i>Have been addressing this with current staffing.</i>
<b>Local champion</b>	<i>Governing Body</i>
<b>Other community objectives</b>	<i>Supports current objectives within the Borough Master Plan. The mitigated properties can assist in bringing the Borough into compliance with the CRS requirements and the Borough can finally enter the program. Additionally, this will ultimately increase property values</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Flood Damage Prevention Ordinance</i>
<b>Responsible party</b>	<i>Floodplain Administrator and Construction Official</i>
<b>Potential funding sources</b>	<i>Federal and State funded grants</i>
<b>Time line</b>	<i>Goal for 100% mitigation by 2017.</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward (with more of a focus on elevation and floodproofing)</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Highlands</i>
<b>Community action number</b>	2
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding, storm surge, wave action, hurricane and tropical storm, nor'easter</i>
<b>Risk finding</b>	<i>The downtown area frequently experiences flooding due to storm related and tidal events. Most of Highlands (from the Bay up to Shore Drive) is in the mapped special flood hazard area. Severe storm events in recent years, particularly Hurricane Sandy, have devastated the Borough. The existing drainage system does not accommodate stormwater runoff from hill sections; this is exacerbated when coastal waters are high. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure Projects</i>
<b>Action type</b>	<i>Infrastructure improvements and upgrades.</i>
<b>Action description</b>	<i>The Borough has designed a storm system improvement project in portions of the downtown area.</i>
<b>Existing, future &amp;/or NA</b>	<i>Addresses existing infrastructure and provides new infrastructure where none currently exists.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Reduces flooding due to storms and minor tidal events. This project will reduce flooding within the downtown area and can act as a main catalyst for revitalizing the existing downtown business districts. This project will also assist in minimizing flooding issues in various flood prone residential areas. Losses avoided by the project are estimated to be roughly on the order of \$10 Million.</i>
<b>Cost estimate</b>	<i>\$4.5 million</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project will reduce flooding within the downtown area and can act as a main catalyst for revitalizing the existing downtown business districts. This project will also assist in minimizing flooding issues in various flood prone residential areas. This project is likely to be cost effective, with benefits on the order of \$10 Million and costs on the order of \$4.5 Million.</i>
<b>Technical</b>	<i>Technically feasible. Addresses majority of Bay Avenue flooding thus minimizing adverse impacts to the businesses downtown also minimizes nuisance flooding in residential areas.</i>
<b>Political</b>	<i>The entire Governing Body supports this effort.</i>
<b>Legal</b>	<i>No apparent legal issues</i>
<b>Environmental</b>	<i>No adverse impacts environmentally</i>
<b>Social</b>	<i>Does not adversely impact the Borough. However there will be a tax increase to cover the bonding for the project.</i>
<b>Administrative capability</b>	<i>The Borough and Borough Engineer will be working together throughout the project.</i>
<b>Local champion</b>	<i>Governing Body</i>
<b>Other community objectives</b>	<i>Addresses longstanding concern of flooding in the business districts and can positively impact revitalization of the business districts.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Plans and specifications prepared by the Borough Engineer</i>
<b>Responsible party</b>	<i>Governing Body</i>
<b>Potential funding sources</b>	<i>EIT loan through the NJDEP; constantly seeking other funding sources to minimize the Borough's financial obligations.</i>
<b>Time line</b>	<i>Start construction 2014</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Highlands</i>
<b>Community action number</b>	3
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Coastal Erosion, Flooding, Wave Action, Hurricanes, Tropical Storms, Nor'easters</i>
<b>Risk finding</b>	<i>Bulkheads and shorelines are frequently subject to tidal/coastal flooding. Damages from coastal erosion and wave action in recent storms have been significant. Several critical facilities in Highlands are located in one or more mapped hazard areas (including but not limited to flood, surge, and erosion). Several critical facilities in Highlands are located in one or more mapped hazard areas (including, but not limited to: flood, surge, and coastal erosion). Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Natural Systems Protection (coastlines); Structure and Infrastructure Projects (bulkheads)</i>
<b>Action type</b>	<i>Protection and restoration of existing natural protective features (coastlines) and flood control measures (bulkheads).</i>
<b>Action description</b>	<i>Routine visual inspection of coastlines and bulkheads, identification of areas of concern, and prompt repairs of troubled areas, with mitigation as needed, to ensure levels of protection afforded by the Borough's beach and bulkhead system.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Reduces risk of potential property damages. We believe this action can potentially save tens of millions of dollars in damages by identifying and repairing troubled areas.</i>
<b>Cost estimate</b>	<i>\$3,000,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost-effective, with benefits estimated to be in the tens of millions of dollars, and costs of only \$3 million.</i>
<b>Technical</b>	<i>Technically feasible.</i>
<b>Political</b>	<i>The entire Governing Body supports this effort.</i>
<b>Legal</b>	<i>Legal issues may arise when a privately owned bulkhead adversely impacts neighboring and/or publically owned property.</i>
<b>Environmental</b>	<i>No adverse impacts environmentally</i>
<b>Social</b>	<i>Does not adversely impact any known social groups.</i>
<b>Administrative capability</b>	<i>The Borough DPW performs the visual inspections and solicits the assistance from others as necessary.</i>
<b>Local champion</b>	<i>Governing Body</i>
<b>Other community objectives</b>	<i>Addresses potential safety and property damage concerns.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Part of routine inspections performed by the DPW</i>
<b>Responsible party</b>	<i>DPW will perform quarterly inspections and will provide reports to the Borough Administrator. The Administrator will then forward to the Borough Engineer as appropriate for further action.</i>
<b>Potential funding sources</b>	<i>Locally funded with the constant search for potential grant funding.</i>
<b>Time line</b>	<i>Ongoing</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Highlands</i>
Community action number	4
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Landslides</i>
Risk finding	<i>The geography of the Borough of Highlands makes it highly susceptible to landslides and slump blocks; which occur regularly in the borough. Conditions are exacerbated on steepest slopes when soil water content is high and particularly when the ground is being disturbed (i.e. during construction). Slump blocks and slope failures have been experienced in prior storm events.</i>
<b>Describing the Action</b>	
Action category	<i>Local Planning and Regulations (ordinances); Structure and Infrastructure Projects (implement monitoring mechanisms and apply soil stabilization measures.</i>
Action type	<i>Manage development in landslide hazard areas through ordinances; and implement monitoring mechanisms and apply soil stabilization measures as needed.</i>
Action description	<i>Borough Ordinances have been revised over recent years to make disturbance on or near a steep slope prohibited without seeking variance relief. Implement monitoring mechanisms for areas of concern and apply soil stabilization measures, as needed to prevent impacts to improved property and infrastructure. Revise Ordinances as necessary. Prohibit slope disturbances within specific areas.</i>
Existing, future &/or NA	<i>Existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Reduces risk of potential property damages. We believe this action can potentially save tens of millions of dollars in damages by identifying and repairing troubled areas.</i>
Cost estimate	<i>\$2,000,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost-effective, with benefits estimated to be in the tens of millions of dollars, and costs of only \$2 million.</i>
Technical	<i>Technically feasible.</i>
Political	<i>The entire Governing Body supports this effort.</i>
Legal	<i>Legal issues may arise when a privately owned slope adversely impacts neighboring and/or publically owned property.</i>
Environmental	<i>No adverse impacts environmentally</i>
Social	<i>Does not adversely impact any known social groups.</i>
Administrative capability	<i>The Borough DPW performs the visual inspections and solicits the assistance from others as necessary.</i>
Local champion	<i>Governing Body</i>
Other community objectives	<i>Addresses potential safety and property damage concerns.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Part of routine inspections performed by the DPW</i>
Responsible party	<i>DPW will perform quarterly inspections or additional inspections as needed. They will report findings to the Borough Administrator who will forward to the Borough Engineer for further attention.</i>
Potential funding sources	<i>Locally funded with the constant search for potential grant funding.</i>
Time line	<i>Ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Highlands</i>
<b>Community action number</b>	5
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All</i>
<b>Risk finding</b>	<i>Various hazards have historically crippled Borough communications and electrical systems for critical facilities including EOC and local shelters.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure Projects</i>
<b>Action type</b>	<i>Protect infrastructure and critical facilities</i>
<b>Action description</b>	<i>Improvements to electrical and telecommunication systems at critical facilities including EOC and local shelters to minimize future damage and system failures, and maximize the borough's ability to perform and maintain critical functions during emergencies. These improvements will include generators and mitigation measures of various features.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Reduces risk of potential communication losses which can adversely affect the health, safety and welfare of the Borough residents as well as the general public. Ability to respond for things like fires can protect the built environment as well as the people. Losses avoided by ensuring continuous telecommunications and electrical systems for EOC and local shelters can be in the millions of dollars.</i>
<b>Cost estimate</b>	<i>\$250,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with lifetime benefits potentially to be millions of dollars and costs on the order of only \$250,000</i>
<b>Technical</b>	<i>Technically feasible.</i>
<b>Political</b>	<i>The entire Governing Body supports this effort.</i>
<b>Legal</b>	<i>Positive legal impacts in that the Borough is maintaining its critical functions.</i>
<b>Environmental</b>	<i>No adverse impacts environmentally</i>
<b>Social</b>	<i>Does not adversely impact any known social groups.</i>
<b>Administrative capability</b>	<i>The Borough OEM Office and Police Department continuously monitor the electrical and communication facilities and take appropriate action as necessary.</i>
<b>Local champion</b>	<i>Governing Body</i>
<b>Other community objectives</b>	<i>Maintains effective communication and vital services for the Borough and general public.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Dialogue with OEM office and Borough PD</i>
<b>Responsible party</b>	<i>Governing Body</i>
<b>Potential funding sources</b>	<i>Locally funded with the constant search for potential grant funding.</i>
<b>Time line</b>	<i>Ongoing</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Highlands</i>
<b>Community action number</b>	6
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Extreme Wind Events, hurricane and tropical storms, nor'easter, winter storms, tornado</i>
<b>Risk finding</b>	<i>Some emergency facilities and shelters built before existing codes were adopted are not designed to accommodate high wind loads that could be experienced during severe storms. Most Borough facilities were rendered uninhabitable due to storm damage from Superstorm Sandy. While some of the damages were related to flooding and surge, a large portion was also attributable to wind damages.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure Projects</i>
<b>Action type</b>	<i>Implementation of wind resistant building techniques</i>
<b>Action description</b>	<i>Installation of hurricane clips and wind shutters on existing Borough facilities including emergency facilities.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Minimize risk of future damage thus maintaining Borough services within the intended facilities. The dollars spent will minimize risk of future wind damage allowing the Borough to operate at the intended facilities and not have to seek alternate locations to rent/lease to operate from. Losses avoided are difficult to quantify, but could potentially be on the order of several million dollars.</i>
<b>Cost estimate</b>	<i>\$2,000,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective with potential benefits on the order of several million dollars as compared to costs of only \$2 million.</i>
<b>Technical</b>	<i>Technically feasible.</i>
<b>Political</b>	<i>The entire Governing Body supports this effort.</i>
<b>Legal</b>	<i>No legal issues are anticipated with this project.</i>
<b>Environmental</b>	<i>No adverse impacts environmentally</i>
<b>Social</b>	<i>Does not adversely impact any known social groups.</i>
<b>Administrative capability</b>	<i>The Borough and its professionals have the means to implement this project.</i>
<b>Local champion</b>	<i>Governing Body</i>
<b>Other community objectives</b>	<i>Maintains effective communication and vital services for the Borough and general public.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>Damage assessments and cost benefit analysis from Borough professionals.</i>
<b>Responsible party</b>	<i>Governing Body</i>
<b>Potential funding sources</b>	<i>Locally funded with the constant search for potential grant funding.</i>
<b>Time line</b>	<i>Ongoing</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Highlands</i>
Community action number	7
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>All - particularly flooding</i>
Risk finding	<i>Most of Highlands downtown area from the river/bay to Shore Drive) is in the mapped special flood hazard area. Most Borough facilities were rendered uninhabitable due to storm damage from Superstorm Sandy.</i>
<b>Describing the Action</b>	
Action category	<i>Structure and Infrastructure Improvements</i>
Action type	<i>Protect structures, infrastructure, and critical facilities.</i>
Action description	<i>Conduct a study to determine the year built and level of protection for each borough facility for various hazards (foremost: flooding). Then, seek funding for mitigation projects for those facilities that are not currently designed for an appropriate level of protection. This includes but is not limited to increasing interior drainage and adding an additional stormwater pumpstation at Jones Creek, rebuilding the North Street Stormwater Pumpstation to current codes and standards, constructing new Borough facilities to replace the storm damaged, flood prone facilities and/or floodproof existing facilities that can feasibly be repaired and mitigated.</i>
Existing, future &/or NA	<i>Existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Minimize risk of future damage thus maintaining Borough services within the intended facilities. The dollars spent will minimize risk of future storm damage allowing the Borough to operate at the intended facilities and not have to seek alternate locations to rent/lease to operate from. Losses avoided are difficult to quantify directly. They are estimated to be as high as around \$24 million, but at least \$16 million.</i>
Cost estimate	<i>\$12,000,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>Likely to be cost effective, with benefits on the order of \$20 million and costs of approximately \$12 million.</i>
Technical	<i>Technically feasible.</i>
Political	<i>The entire Governing Body supports this effort.</i>
Legal	<i>No legal issues are anticipated for this project.</i>
Environmental	<i>No adverse impacts environmentally</i>
Social	<i>Does not adversely impact any known social groups.</i>
Administrative capability	<i>The Borough and its professionals have the capability to bring these projects to fruition. The interior drainage and pumpstations are "shovel ready" projects. The Borough has recently bonded approximately \$6,000,000 towards these projects.</i>
Local champion	<i>Governing Body</i>
Other community objectives	<i>Maintains effective communication and vital services for the Borough and general public as well as maintaining services and infrastructure functionality.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Borough and Bond Ordinances</i>
Responsible party	<i>No adverse impacts environmentally</i>
Potential funding sources	<i>Locally funded with the constant search for potential grant funding.</i>
Time line	<i>Ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Highlands</i>
Community action number	<i>#8</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Tidal Flooding from various weather events(Hurricane and tropical storms, nor'easter, storm surge, flood)</i>
Risk finding	<i>Flooding occurs during extreme high tides; storm surge, covering property and roadways</i>
<b>Describing the Action</b>	
Action category	<i>Structure/ infrastructure projects</i>
Action type	<i>Protection of residential property and infrastructure</i>
Action description	<i>Physical barrier with a movable flood gate</i>
Existing, future &/or NA	<i>Existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>placement of a physical barrier with a moveable flood gate at the mouth of the Shrewsbury River would benefit 10 municipalities that border the river, saving \$1.8 billion dollars of flood impacted property in residential, commercial and governmental facilities; this figure does not include vehicles and boats; numerous lives. These ten towns reflect 4.69% of the total flood insurance coverage in NJ.</i>
Cost estimate	<i>\$500 million</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective based on the value of property in 10 towns to the one time cost to develop a barrier.</i>
Technical	<i>Technically feasible; Yes</i>
Political	<i>Political actions would need to be brought into play from several fronts</i>
Legal	<i>legal issues could be present as to jurisdictional oversight. Establish Two River</i>
Environmental	<i>locations under consideration will need environmental review</i>
Social	<i>no social impact, would actually improve the community.</i>
Administrative capability	<i>Project management would be needed</i>
Local champion	<i>Council/Public and Engineering</i>
Other community objectives	<i>floodplain management with the towns of Sea Bright, Monmouth Beach, Long Branch, Little Silver, Fair Haven, Rumson, Red Bank, Highlands, Middletown, all in Monmouth County</i>
<b>Implementing the Action</b>	
Priority	<i>Priority 3</i>
Local planning mechanism	<i>Committee consisting Federal/ State/ County/Local officials and engineering</i>
Responsible party	<i>Engineering</i>
Potential funding sources	<i>FEMA funding, Grants, bond, mitigation funds, State transportation fund</i>
Time line	<i>within the year of 2020</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New proposal</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Holmdel Township</i>
Community action number	<i>1</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Hurricane, Tropical Storm, Nor'easter, Winter Storm, Flood, Surge</i>
Risk finding	<i>- Failure of an emergency generator at a sewer pump station during Sandy highlighted that the Township sanitary sewer infrastructure (pump stations, sewer lines) is in need of mitigation at many locations.</i>
<b>Describing the Action</b>	
Action category	<i>Structure and Infrastructure Projects.</i>
Action type	<i>Protect Infrastructure and Critical Facilities</i>
Action description	<i>Repair and/or replacement of ageing generators, pumps and some sections of sewer lines. One emergency generator has already been replaced at the pump station at Valley Point Drive. A comprehensive examination of the complete sanitary sewer infrastructure is currently underway to prioritize mitigation activities.</i>
Existing, future &/or NA	<i>Protects existing and potential future developments and sub-divisions.</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Due to the topographical nature of the Township this action will be essential in maintaining the useability of hundreds of housing units and township buildings. Also in preventing possible environmental damage. We expect that losses avoided as a result of this project could be approximately \$120,000 per year.</i>
Cost estimate	<i>Initial \$1,200,000. Based on a useful life of # 20 years, this is an annual cost of roughly \$60,000 per year.</i>
Cost effectiveness (i.e., benefit/cost)	<i>High benefit/cost with benefits estimated to be on the order of \$120,000 per year and costs estimated to be on the order of \$60,000 per year.</i>
Technical	<i>Completely feasible.</i>
Political	<i>Public and political support extremely high. The initial bond ordinance for the \$1.2 million passed unopposed in late 2013.</i>
Legal	<i>There are no known legal impediments.</i>
Environmental	<i>From an environmental standpoint this will stand to prevent possible environmental damage and will have no negative impacts. It will comply with all environmental regulations.</i>
Social	<i>There are no known social impacts other than being a positive for all.</i>
Administrative capability	<i>The Township has the personnel and administrative capabilities.</i>
Local champion	<i>All local departments and agencies support this.</i>
Other community objectives	<i>Full implementation will serve to protect the environment and will also serve to support re-investment in older housing stock.</i>
<b>Implementing the Action</b>	
Priority	<i>High.</i>
Local planning mechanism	<i>All existing local codes and ordinances.</i>
Responsible party	<i>Township Administrator.</i>
Potential funding sources	<i>Fully funded by local Bond Issue which is already approved and in place.</i>
Time line	<i>January 2016.</i>
<b>Reporting on Progress</b>	
Action progress status	<i>This is a new action.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Holmdel</i>
<b>Community action number</b>	2
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Storm surge, flooding, hurricanes, tropical storms, nor'easters, wave action, winter storms
<b>Risk finding</b>	Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	Protect Structures
<b>Action description</b>	Elevation and/or Acquisition of Floodprone Residential Structures, with particular focus on those in our community that are on FEMA's Repetitive Loss List and Severe Repetitive Loss List. New Jersey is committed to continuing the reduction of RL and SRL properties in the State; in turn, they have assigned a high priority to mitigating SRL and RL properties in the State Hazard Mitigation Plan. We are committed to supporting these projects as interested homeowners come forward and will support such homeowners, despite the loss in tax revenue, because we recognize the importance of making our community more disaster-resistant and reducing the financial burden of repetitive flooding in our community.
<b>Existing, future &amp;/or NA</b>	Existing
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Properties on FEMA's RL list have already incurred flood-related damage on two occasions, in which the cost of the repair, on average, equaled or exceeded 25% of the market value of the structure at the time of each such flood event. Properties on FEMA's SRL list have already incurred flood related damage (i) For which four or more separate claims payments have been made under flood insurance coverage with the amount of each such claim exceeding \$5,000 and with the cumulative amount of such claims payments exceeding \$20,000; or (ii) For which at least two separate claims payments have been made under such coverage, with the cumulative amount of such claims exceeding the market value of the insured structure. While losses avoided by elevating or acquiring properties on FEMA's RL and SRL lists are unquantifiable until specific interested homeowners come forward, they would meet these criterion by definition, at a minimum.
<b>Cost estimate</b>	Project costs are unquantifiable at this time. They would depend on the particular home(s) in question, and the nature of the project the homeowner is interested in (acquisition, or elevation).
<b>Cost effectiveness (i.e., benefit/cost)</b>	Because our RL and SRL properties have incurred so much damage historically, it is highly probably that mitigating these properties would be cost effective. Specific determinations of cost-effectiveness would be done in the future on a case by case basis as interested homeowners come forward and project details are specified.
<b>Technical</b>	Elevation and acquisition are both technically feasible project types
<b>Political</b>	Our political leadership supports this type of project
<b>Legal</b>	While the municipality does not own the structures in question, we fully support the homeowners in moving forward
<b>Environmental</b>	No environmental impacts are anticipated at this time; this would be confirmed as specific homeowners come forward and their property details are reviewed. It is likely that environmental impacts would be positive, as household hazardous wastes are no longer introduced into floodwaters.
<b>Social</b>	No particular social group in our community is likely to be disproportionately impacted by this project; this would be re-evaluated as particular interested homeowners come forward.
<b>Administrative capability</b>	Our municipality has the administrative capabilities to manage an elevation and/or acquisition project
<b>Local champion</b>	affected homeowners, elected officials
<b>Other community objectives</b>	Improve and protect lifestyles of residents; reduction of costly property damage; resiliency; floodplain management; capital improvements
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	Homeowners; Mayor; Council; Administrator; Engineer; local ordinance; Hazard Mitigation Plan
<b>Responsible party</b>	Mayor and Council
<b>Potential funding sources</b>	FEMA hazard mitigation grant funding streams (i.e., HMGP, FMA, etc)
<b>Time line</b>	This is projected to be an ongoing type of activity, with our municipality supporting interested parties as they come forward.
<b>Reporting on Progress</b>	
<b>Action progress status</b>	New action

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Howell Township/Farmingdale</i>
<b>Community action number</b>	<i>1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All natural hazards</i>
<b>Risk finding</b>	<i>The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities and were better able to shelter in place.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Education and Awareness Programs</i>
<b>Action type</b>	<i>Increase hazard education and risk awareness</i>
<b>Action description</b>	<i>Mass mailing to all residents to obtain contact info of all residents (email list) for constant contact, updates, and education of Township operations regarding Emergencies</i>
<b>Existing, future &amp;/or NA</b>	<i>NA</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>This communication and information will empower citizens to make better decisions, increase better planning around township emergencies (staying away from risks). It will empower emergency response personnel to mitigate risks by informing people to either stay home, steer clear, evacuate, etc. This will allow smoother operations for the Township. Losses avoided are difficult to quantify but are inclusive of preventing injuries and loss of life as well as preventing property damages through homeowner mitigation efforts, and these are likely to be well over the project costs of \$15,000 per year.</i>
<b>Cost estimate</b>	<i>\$15,000/year</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits estimated to be well in excess of project costs of \$15,000 per year.</i>
<b>Technical</b>	<i>Yes</i>
<b>Political</b>	<i>Yes</i>
<b>Legal</b>	<i>Yes</i>
<b>Environmental</b>	<i>N/A</i>
<b>Social</b>	<i>Entire Township</i>
<b>Administrative capability</b>	<i>Yes</i>
<b>Local champion</b>	<i>Yes</i>
<b>Other community objectives</b>	<i>Improves overall Communications from Government to Resident</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>EOP communication annex.</i>
<b>Responsible party</b>	<i>Dan Foglia - OEM Coordinator</i>
<b>Potential funding sources</b>	<i>local budget</i>
<b>Time line</b>	<i>Summer 2014</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New Action</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Howell Township/Farmingdale</i>
Community action number	<i>2</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>All Natural Hazards</i>
Risk finding	<i>Existing shelters are not designed to withstand hazards to which they are exposed during severe storm events. In order to best serve the community during natural disasters, identified pre-existing Shelters must be hardened to improve safety and resiliency during and after the event.</i>
<b>Describing the Action</b>	
Action category	<i>Structure and Infrastructure projects</i>
Action type	<i>Protect critical facilities used for sheltering</i>
Action description	<i>Harden Shelter physically by shielding windows, adding sand bags, adding embankments. Internally will add communication capabilities, add additional emergency supplies (first aid, water, cots, MREs,ec)</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Hardening pre-existing shelters will minimize the need to move citizens from shelter to shelter if the hazard overwhelms the structure. This will also allow HTOEM to stock shelters permanently with supplies ready for a sudden hazard that requires sheltering. Losses avoided are estimated to be \$1,000,000.</i>
Cost estimate	<i>\$120,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits of \$1,000,000 on the cost of \$120,000.</i>
Technical	<i>Yes</i>
Political	<i>Yes</i>
Legal	<i>Yes</i>
Environmental	<i>Yes</i>
Social	<i>Yes</i>
Administrative capability	<i>Yes</i>
Local champion	<i>Yes</i>
Other community objectives	<i>Improves faith and piece of mind for all residents in township emergency operations.</i>
<b>Implementing the Action</b>	
Priority	<i>Medium</i>
Local planning mechanism	<i>EOP Shelter Annex.</i>
Responsible party	<i>HTOEM</i>
Potential funding sources	<i>PDMP, FMAP, EMPG, HLS</i>
Time line	<i>ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>carried forward</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Howell Township/Farmingdale</i>
<b>Community action number</b>	<i>3</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding, surge, hurricanes and tropical storms, nor'easters</i>
<b>Risk finding</b>	<i>Areas of township are prone to severe river flooding, including normal rainfall. While Howell is not located along the coast, some of its streams are susceptible to storm surge flooding.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and infrastructure projects</i>
<b>Action type</b>	<i>Elevate structures</i>
<b>Action description</b>	<i>Raise identified structures to safe height to not allow for floodin.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Potential loss of life will be avoided as well as structure damage and potential collapse. Elevation will also be preventing constant dispatch of emergency personnel and supplies to support victims of flooding. Losses avoided are estimated to be in excess of project costs.</i>
<b>Cost estimate</b>	<i>\$3,000,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits on the order of \$5 million and costs of \$3 million.</i>
<b>Technical</b>	<i>Yes</i>
<b>Political</b>	<i>Yes</i>
<b>Legal</b>	<i>Yes</i>
<b>Environmental</b>	<i>Yes</i>
<b>Social</b>	<i>Yes</i>
<b>Administrative capability</b>	<i>Yes</i>
<b>Local champion</b>	<i>Yes</i>
<b>Other community objectives</b>	<i>Perserve Life</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>Town Master Plan</i>
<b>Responsible party</b>	<i>HTOEM</i>
<b>Potential funding sources</b>	<i>PDMP, FMAP, EMPG, HLS</i>
<b>Time line</b>	<i>ongoing</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Howell Township/Farmingdale</i>
Community action number	<i>4</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>All Hazards</i>
Risk finding	<i>Emergency operations center lacks redundant systems (power and communication) to maintain critical functions before, during and after a disaster.</i>
<b>Describing the Action</b>	
Action category	<i>Structure and infrastructure projects</i>
Action type	<i>Protect critical facilities</i>
Action description	<i>'Improve communications of EOC and Dispatch. EOC needs communication equipment including all office equipment, and Redundant Dispatch system needs to be upgraded.</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Loss of robust communications between ALL response agencies will be avoided to best carry out operations during a hazard. The project will improve collective and organized response from all emergency agencies in township. Losses avoided are estimated to be in excess of projects costs.</i>
Cost estimate	<i>\$750,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits of preservation of life on the cost of \$750,000 .</i>
Technical	<i>Yes</i>
Political	<i>Yes</i>
Legal	<i>Yes</i>
Environmental	<i>Yes</i>
Social	<i>Yes</i>
Administrative capability	<i>Yes</i>
Local champion	<i>Yes</i>
Other community objectives	
<b>Implementing the Action</b>	
Priority	<i>Medium</i>
Local planning mechanism	<i>EOP - 'EOC and Communications Annexes</i>
Responsible party	<i>HTOEM, HTPD</i>
Potential funding sources	<i>PDMP, FMAP, EMPG, HLS, Local Budget</i>
Time line	<i>ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>carried forward</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Howell Township/Farmingdale</i>
<b>Community action number</b>	<i>5</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All Hazards</i>
<b>Risk finding</b>	<i>Downed trees on power lines contribute to power outages during severe storms with high winds such as nor'easters hurricanes, and tropical storms, etc. Power outages have impacted emergency services, water purification systems, and shelters that lack secondary power sources.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and infrastructure projects</i>
<b>Action type</b>	<i>Protect critical facilities</i>
<b>Action description</b>	<i>Power for essential equipment to sustain Continuity of Operations during hazards that cause loss of power.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Loss of communication and operations will be avoided to allow for response procedures to continue during power loss. Losses avoided are estimated to be in excess of project costs.</i>
<b>Cost estimate</b>	<i>\$100,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits of well in excess of costs of \$100,000.</i>
<b>Technical</b>	<i>Yes</i>
<b>Political</b>	<i>Yes</i>
<b>Legal</b>	<i>Yes</i>
<b>Environmental</b>	<i>Yes</i>
<b>Social</b>	<i>Yes</i>
<b>Administrative capability</b>	<i>Yes</i>
<b>Local champion</b>	<i>Yes</i>
<b>Other community objectives</b>	<i>Improved Communications and Response.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>EOP - 'Emergency Response Annex</i>
<b>Responsible party</b>	<i>HTOEM, HTPD, HTDPW</i>
<b>Potential funding sources</b>	<i>PDMP, FMAP, EMPG, HLS, Local Budget</i>
<b>Time line</b>	<i>ongoing</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Howell Township/Farmingdale</i>
<b>Community action number</b>	<i>6</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All Hazards</i>
<b>Risk finding</b>	<i>Power outages have impacted emergency services, water purification systems, and shelters that lack secondary power sources. Power outages for water purification systems results in contaminated Water during hazards.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and infrastructure projects</i>
<b>Action type</b>	<i>Protect critical facilities</i>
<b>Action description</b>	<i>During outages contaminated water needs to be purified and potable to disseminate to residents in shelters and all other needed areas so backup systems are needed to sustain purified water.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The project will keep residents healthy and not requiring additional EMS response to sick residents. While difficult to quantify, this is considered to be well in excess of the project costs.</i>
<b>Cost estimate</b>	<i>\$100,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits in excess of project costs.</i>
<b>Technical</b>	<i>Yes</i>
<b>Political</b>	<i>Yes</i>
<b>Legal</b>	<i>Yes</i>
<b>Environmental</b>	<i>Yes</i>
<b>Social</b>	<i>Yes</i>
<b>Administrative capability</b>	<i>Yes</i>
<b>Local champion</b>	<i>Yes</i>
<b>Other community objectives</b>	<i>Public Health</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>EOP - 'Shelter &amp; Public Health Annex</i>
<b>Responsible party</b>	<i>HTOEM, Health</i>
<b>Potential funding sources</b>	<i>PDMP, FMAP, EMPG, HLS, Local Budget</i>
<b>Time line</b>	<i>ongoing</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough Of Interlak5n</i>
<b>Community action number</b>	<i>1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Infiltration of storm water into sewer system and poor drainage of storm waters Flooding, hurricanes and tropical storms, nor'easters</i>
<b>Risk finding</b>	<i>Deal Lake continues to be a major source of flooding in the Borough. During severe storms, water drains into the Lake but outfall design constraints prevent the water from making its way into the ocean before water overflows the banks and floods back into surrounding areas. Sedimentation and debris in Deal Lake and its tributaries impedes flood flows. Damage and losses due to flooding are also incurred in Interlaken as a result of drainage system shortcomings; the Borough's drainage system cannot efficiently accommodate today's stormwater runoff volumes, and discharge this stormwater efficiently to ocean waters. This combined with flooding from Deal Lake which can be exacerbated</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure Projects</i>
<b>Action type</b>	<i>Make upgrades and improvements to old sewer and storm water management systems</i>
<b>Action description</b>	<i>Over the course of several years systematically make upgrades and improvements to sewer systems, storm water management systems, and outflow pipes. These improvements will increase capacity, will reduce blockage, and outflow pipes will be retrofitted with backflow valves.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The action will be significant in protecting the sewer systems from rain water infiltration and reducing flooding by improving the flow into local lakes and streams. In addition, storm water entering into sewer systems damages the infrastructure and dramatically increases the product treated in treatment facilities which results in much higher bills for residents. Losses avoided by this project are estimated to be roughly on the order of \$75 million dollars over a projected 50 year period.</i>
<b>Cost estimate</b>	<i>\$1,000,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, over an anticipated 50 year period at 150,000.00 per year of losses avoided the benefits could exceed \$75 million and costs of only \$1 million.</i>
<b>Technical</b>	<i>The project is technically feasible.</i>
<b>Political</b>	<i>The public welcomes and supports this project as does the governing body.</i>
<b>Legal</b>	<i>The Borough has the legal authority to undertake this project.</i>
<b>Environmental</b>	<i>The project will improve environmental conditions by reducing flooding, regulating flow into bodies of water, and preventing sewerage from entering natural resources.</i>
<b>Social</b>	<i>Improvements benefit all residents within the community equally.</i>
<b>Administrative capability</b>	<i>The Borough is unable to undertake the project with its staff, an outside contractor will be used.</i>
<b>Local champion</b>	<i>All residents of the Borough benefit from the project. The governing body is a strong supporter of improving the location.</i>
<b>Other community objectives</b>	<i>Improves environmental quality in lakes and streams.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>Codes, Engineering, Plans, Administrative Oversight</i>
<b>Responsible party</b>	<i>Borough Administrator overseeing engineering firm</i>
<b>Potential funding sources</b>	<i>Sewer Taxes / Local Budget</i>
<b>Time line</b>	<i>Some improvements have been made as budget allows. Project will continue into the future as much as possible.</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Interlaken</i>
<b>Community action number</b>	2
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Storm surge, flooding, hurricanes, tropical storms, nor'easters, wave action, winter storms
<b>Risk finding</b>	Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	Protect Structures
<b>Action description</b>	Elevation and/or Acquisition of Floodprone Residential Structures, with particular focus on those in our community that are on FEMA's Repetitive Loss List and Severe Repetitive Loss List. New Jersey is committed to continuing the reduction of RL and SRL properties in the State; in turn, they have assigned a high priority to mitigating SRL and RL properties in the State Hazard Mitigation Plan. We are committed to supporting these projects as interested homeowners come forward and will support such homeowners, despite the loss in tax revenue, because we recognize the importance of making our community more disaster-resistant and reducing the financial burden of repetitive flooding in our community.
<b>Existing, future &amp;/or NA</b>	Existing
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Properties on FEMA's RL list have already incurred flood-related damage on two occasions, in which the cost of the repair, on average, equaled or exceeded 25% of the market value of the structure at the time of each such flood event. Properties on FEMA's SRL list have already incurred flood related damage (i) For which four or more separate claims payments have been made under flood insurance coverage with the amount of each such claim exceeding \$5,000, and with the cumulative amount of such claims payments exceeding \$20,000; or (ii) For which at least two separate claims payments have been made under such coverage, with the cumulative amount of such claims exceeding the market value of the insured structure. While losses avoided by elevating or acquiring properties on FEMA's RL and SRL lists are unquantifiable until specific interested homeowners come forward, they would meet these criterion by definition, at a minimum.
<b>Cost estimate</b>	Project costs are unquantifiable at this time. They would depend on the particular home(s) in question, and the nature of the project the homeowner is interested in (acquisition, or elevation).
<b>Cost effectiveness (i.e., benefit/cost)</b>	Because our RL and SRL properties have incurred so much damage historically, it is highly probably that mitigating these properties would be cost effective. Specific determinations of cost-effectiveness would be done in the future on a case by case basis as interested homeowners come forward and project details are specified.
<b>Technical</b>	Elevation and acquisition are both technically feasible project types
<b>Political</b>	Our political leadership supports this type of project
<b>Legal</b>	While the municipality does not own the structures in question, we fully support the homeowners in moving forward
<b>Environmental</b>	No environmental impacts are anticipated at this time; this would be confirmed as specific homeowners come forward and their property details are reviewed. It is likely that environmental impacts would be positive, as household hazardous wastes are no longer introduced into floodwaters.
<b>Social</b>	No particular social group in our community is likely to be disproportionately impacted by this project; this would be re-evaluated as particular interested homeowners come forward.
<b>Administrative capability</b>	Our municipality has the administrative capabilities to manage an elevation and/or acquisition project
<b>Local champion</b>	affected homeowners, elected officials
<b>Other community objectives</b>	Improve and protect lifestyles of residents; reduction of costly property damage; resiliency; floodplain management; capital improvements
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	Homeowners; Mayor; Council; Administrator; Engineer; local ordinance; Hazard Mitigation Plan
<b>Responsible party</b>	Engineer
<b>Potential funding sources</b>	FEMA hazard mitigation grant funding streams (i.e., HMGP, FMA, etc)
<b>Time line</b>	This is projected to be an ongoing type of activity, with our municipality supporting interested parties as they come forward.
<b>Reporting on Progress</b>	
<b>Action progress status</b>	New action

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Keansburg</i>
<b>Community action number</b>	<i>1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
<b>Risk finding</b>	<i>Damage and losses due to flooding are incurred in some parts of Keansburg as a result of drainage system shortcomings; the Borough's drainage system cannot efficiently accommodate today's stormwater runoff volumes, and discharge this stormwater efficiently to ocean waters.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural</i>
<b>Action type</b>	<i>Install new stormwater pump stations and make improvements to existing pump stations</i>
<b>Action description</b>	<i>Install three new flood proofed stormwater pump stations in the borough with a permanent back-up generator at each and to flood proof two existing pump stations and install a back up generator at each station. As well as remove and replace the existing deteriorated storm water collections infrastructure</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The proposed improvements will protect against pump station failure in the event of power loss and/or flooding and will ensure continued operation of the Borough's stormwater conveyance system. It is estimated that the proposed mitigation activity will result in a \$279,938,400.00 (per the average real estate values in the Borough of \$159,600 x the 1,754 homes that received minor damage) reduction in damages to residential structures and personal property and will protect public health and safety.</i>
<b>Cost estimate</b>	<i>\$15,000,000 for storm water pump stations and an additional \$10,000,000 for collections system rehabilitation, total cost: \$25,000,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This action is likely to be cost effective, with benefits as high as \$279,938,400 and costs of only \$25,000,000.</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by comissioners and the mayor</i>
<b>Legal</b>	<i>The community does have the legal authority to implement this project</i>
<b>Environmental</b>	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
<b>Social</b>	<i>There are no social impacts from this project on the community</i>
<b>Administrative capability</b>	<i>The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the project and construction</i>
<b>Local champion</b>	<i>Commisioners and the mayor</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
<b>Responsible party</b>	<i>Borough Administrator</i>
<b>Potential funding sources</b>	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
<b>Time line</b>	<i>Dependent upon municipality securing grant funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>carried forward from the last version of the plan</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Keansburg</i>
Community action number	2
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
Risk finding	<i>Most of the Borough lies within mapped storm surge hazard areas. Keansburg was devastated by storm surge flooding during Hurricane Sandy. As a result of Hurricane Sandy, Police vehicles and equipment in the borough were damaged and response services were hindered because of the flood waters, debris and power outages.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>Relocate the police headquarters and emergency operation center</i>
Action description	<i>Relocate the police headquarters and emergency operation center from 179 Carr Avenue to a vacant property in the Borough</i>
Existing, future &/or NA	<i>Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>As a result of Hurricane Sandy, Police vehicles and equipment in the borough were damaged and response services were hindered because of the flood waters, debris and power outages. The relocation of the police building would allow the department to run an effective response to future emergency, and reduce risk to equipment and personnel. Losses avoided could range from \$250,000 to \$500,000 each year.</i>
Cost estimate	<i>\$2,812,500.00</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective with benefits ranging from \$250,000 to \$500,00 per year; and costs of \$2,812,500.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by commissioners and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>There are no social impacts from this project on the community</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid to construction</i>
Local champion	<i>Commissioners and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Borough Administrator</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
Time line	<i>Ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Keansburg</i>
Community action number	3
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge, Coastal Erosion</i>
Risk finding	<i>As a result of the drastic inundation of floodwater caused by Hurricane Sandy and other major storm events, the banks of Waackaack Creek have become severely eroded and laden with silt and sand that was washed in from the bayshore beaches. As a result, areas of roadway located along the creek have begun to collapse. In addition the structural integrity of surrounding residential properties has been compromised, posing an imminent threat to life, health, &amp; public safety.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>Flood Proofing</i>
Action description	<i>Extend bulkhead for the entire length of Waackaack Creek as well as dredge the creek to increase stormwater storage capacity</i>
Existing, future &/or NA	<i>Future and existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The proposed improvements will protect the borough from storm surges and limit the access points of the stormwater into the borough. Losses avoided could be in the hundreds of millions of dollars. This work is needed to safeguard lives and property from imminent hazard of floodwater and erosion.</i>
Cost estimate	<i>The cost of the Bulkhead and dredging is estimated at \$22,500,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits in the hundreds of millions and costs estimated at only \$22.5 million.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by commissioners and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are potential environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>There are no social impacts from implementing this project</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it.</i>
Local champion	<i>Commissioners and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents.</i>
Responsible party	<i>Borough Administrator</i>
Potential funding sources	<i>FEMA Hazardous Mitigation Grant, Borough Funding</i>
Time line	<i>Dependent upon municipality securing funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

## Action Worksheet

Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Keansburg</i>
Community action number	4
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge, Coastal Erosion</i>
Risk finding	<i>Keansburg is part of the USACE Raritan Bay and Sandy Hook Bay, New Jersey, Beach Erosion and Hurricane Protection Project. The project was constructed in 1973 provides beach erosion and hurricane protection (through reducing the risk of flooding and damages caused by storm surge and wave action). It includes sacrificial beach berm, groins, levees, floodwall, a storm closure gate, and a pump station. Hurricane Sandy exceeded the design level for this system, but the system did provide some protection nonetheless.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>Improve borough shoreline and dunes</i>
Action description	<i>Improve 2.6 miles of beach that is 200 feet wide that was substantially damaged due to storm by increasing the height and width of the dunes to the 100 year storm elevation. Also included in this project is dune maintenance planting dune grass and maintaining access points</i>
Existing, future &/or NA	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The goal of this project is to protect lives and property from flood inundation and flood hazards of the Raritan River, to reduce the need for emergency services during flood events and to reduce or eliminate repetitive flooding of these homes thereby reduce claims under the National Flood Insurance Program. The proposed improvements will protect the borough from storm surges and limit the access points of the stormwater into the borough. Losses avoided could be in the hundreds of millions of dollars.</i>
Cost estimate	<i>\$7,383,750.00</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits estimated to be as high as the hundreds of millions and costs of only \$7 million</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by commissioners and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are potential environmental impacts caused by this project, these will be considered and it will comply with all federal, state, and local regulations</i>
Social	<i>There are no social impacts from this project on the community</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the project and construction</i>
Local champion	<i>Commissioners and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Borough Administrator</i>
Potential funding sources	<i>Monmouth County CDBG Program and the Post Disaster CDBG Funding Program</i>
Time line	<i>Ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Keansburg</i>
Community action number	5
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
Risk finding	<i>Most of the Borough lies within mapped storm surge hazard areas. Keansburg was devastated by storm surge flooding during Hurricane Sandy.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>Home Elevation</i>
Action description	<i>Elevating of approx. 3,843 homes to new FEMA FIRM maps</i>
Existing, future &/or NA	<i>Protecting existing structures</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The proposed mitigation will result in reduced future storm damages to residential structures, personal property and protect public health and safety during future events. These mitigation activities could potentially result in a \$613,342,800.00 (based on 3,843 homes at \$159,600 each) reduction in future storm damages to residential structures and personal property.</i>
Cost estimate	<i>\$345,870,000.00</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits as high as \$613 million and costs of \$345 million.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by commissioners and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>Property owners may need to relocate while the home raising is implemented</i>
Administrative capability	<i>The community does have the personnel and homeowners will maintain projects</i>
Local champion	<i>Commissioners and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents, additionally current code requires substantially damaged to elevate home</i>
Responsible party	<i>Homeowners and/or Borough Administrator</i>
Potential funding sources	<i>Private, ICC or FEMA SRL</i>
Time line	<i>Dependent upon municipality securing residential funding and code compliance, a start date has not been identified</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Keansburg</i>
<b>Community action number</b>	<i>6</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Wind, Ice, Lightning, Hurricane and Tropical Storm, Nor'easter</i>
<b>Risk finding</b>	<i>'Downed trees on power lines contribute to power outages during severe storms with high winds such as nor'easter, hurricanes, and tropical storms, etc.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Maintenance</i>
<b>Action type</b>	<i>Tree trimming/pruning</i>
<b>Action description</b>	<i>Tree trimming and pruning to prevent downed power lines.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Downed trees on power lines contribute to power outages during severe storms. The loss of power can be devastating to the community as was observed during Hurricane Sandy. Keeping the wildlife around power line structures properly maintained is very important in preventing the loss of power to the community as well as preventing injury to people as a result of downed power lines. The losses avoided due to loss of power can be in the hundreds of thousands to millions of dollars per year.</i>
<b>Cost estimate</b>	<i>\$135,000.00 / year</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits estimated to be in the hundreds of thousands to millions of dollars per year, and costs of only \$135,000 per year.</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by commissioners and the mayor</i>
<b>Legal</b>	<i>The community does have the legal authority to implement this project</i>
<b>Environmental</b>	<i>There are potential environmental impacts caused by this project, these will be considered and it will comply with all federal, state, and local regulations</i>
<b>Social</b>	<i>There are no social impacts from this project on the community</i>
<b>Administrative capability</b>	<i>The community does have the personnel and administrative capability implement this action as well as maintain it.</i>
<b>Local champion</b>	<i>Commissioners and the mayor</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
<b>Responsible party</b>	<i>Borough Administrator</i>
<b>Potential funding sources</b>	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
<b>Time line</b>	<i>Ongoing</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New project to previously in the 2009 plan; work is Ongoing</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Keansburg</i>
<b>Community action number</b>	7
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
<b>Risk finding</b>	<i>Most of the Borough lies within mapped storm surge hazard areas. Keansburg was devastated by storm surge flooding during Hurricane Sandy. Some vacant homes are repetatively damaged by storm and flood events, these homes should be acquired by the borough and returned to their natural state to promote groundwater recharge and decrease stormwater runoff.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural</i>
<b>Action type</b>	<i>Drainage</i>
<b>Action description</b>	<i>Purchasing of vacant homes througout the borough for flood mitigation</i>
<b>Existing, future &amp;/or NA</b>	<i>Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Purchasing of vacant homes which are repeatedly devastated by storms to convert to their natural state is in the boroughs best interest. The proposed mitigation activities could potentially result in millions to tens of millions of dollars in reducton in future storm damages to residential structures and personal property</i>
<b>Cost estimate</b>	<i>20 lots at \$150,000 per lot = \$3,000,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This action is likely to be cost effective with benefits of tens of millions and costs of \$3 million</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by comissioners and the mayor</i>
<b>Legal</b>	<i>The community does have the legal authority to implement this project</i>
<b>Environmental</b>	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
<b>Social</b>	<i>There are no social impacts of implementing this action</i>
<b>Administrative capability</b>	<i>The community does have the personnel</i>
<b>Local champion</b>	<i>Commisioners and the mayor</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
<b>Responsible party</b>	<i>Homeowners and/or Borough Administrator</i>
<b>Potential funding sources</b>	<i>FEMA Hazard Mitigation Grant, Borough funding, Blue Acres program</i>
<b>Time line</b>	<i>Dependent upon municipality securing funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New Action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Keansburg</i>
<b>Community action number</b>	<i>8</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
<b>Risk finding</b>	<i>Power outages can severely impact critical facilities that lack secondary power</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Emergency Power Generators</i>
<b>Action type</b>	<i>Developing funding plan</i>
<b>Action description</b>	<i>Develop a plan to acquire funding for emergency backup power generators in critical care facilities.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The proposed plan will aide the borough in acquiring funding for emergency power generators to be installed in critical care facilities. During major storms like Hurricane Sandy these facilities were not adequate enough to sustain life without power. Residents were transferred to hospitals at the boroughs expense, which was in the hundreds of thousands of dollars. Backup power generation will allow these facilities to act as emergen3y shelters during storm events and prevent unnecessary coste to the borough and protect health and safety of its residents.</i>
<b>Cost estimate</b>	<i>\$10,000 to develop funding plan</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This action is likely to be cost effective, with benefits in the hundreds of thousands of dollars and a cost of only \$10,000.</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by comissioners and the mayor</i>
<b>Legal</b>	<i>The community does have the legal authority to implement this project</i>
<b>Environmental</b>	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
<b>Social</b>	<i>There are no social impacts from this project on the community</i>
<b>Administrative capability</b>	<i>The community does have the personnel and administrative capability implement this action as well as maintain it.</i>
<b>Local champion</b>	<i>Commisioners and the mayor</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
<b>Responsible party</b>	<i>Borough Administrator</i>
<b>Potential funding sources</b>	<i>FEMA HazGrd Mitigation Grant, Borough funding</i>
<b>Time line</b>	<i>Dependent upon municipaliPy securing grant funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>carried forward from the last version of the plan</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Keansburg</i>
<b>Community action number</b>	2
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
<b>Risk finding</b>	<i>Keansburg's level of disaster resistance would benefit from enacting and enforcing flood hazard zoning ordinances.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>New Ordinance</i>
<b>Action type</b>	<i>Developing flood hazard zoning ordinances</i>
<b>Action description</b>	<i>Develop flood hazard zoning ordinances to better protect the borough from natural disasters</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The proposed ordinances will prevent future losses due to damages from natural disasters and better protect the health and safety of the borough residents. Benefits of completing this project could be in the tens of millions to hundreds of millions of dollars by requiring new structures to be built above the flood elevation</i>
<b>Cost estimate</b>	<i>\$5,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This action is likely to be cost effective, with potential benefits as high as the hundreds of millions of dollars and a cost of only \$5,000</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by comissioners and the mayor</i>
<b>Legal</b>	<i>The community does have the legal authority to implement this project</i>
<b>Environmental</b>	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
<b>Social</b>	<i>There are no social impacts from this project on the community</i>
<b>Administrative capability</b>	<i>The community does have the personnel and administrative capability implement this action as well as maintain it.</i>
<b>Local champion</b>	<i>Commisioners and the mayor</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
<b>Responsible party</b>	<i>Borough Administrator</i>
<b>Potential funding sources</b>	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
<b>Time line</b>	<i>Flood hazard zoning revisions are already being undertaken by the borough. These will continue to be revised and modified based on the best available flood data and FEMA/NJOEM/NJUCC direction and requirements</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Ongoing- carried forward from the last version of the plan</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Keansburg</i>
<b>Community action number</b>	<i>10</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Winh, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
<b>Risk finding</b>	<i>Substantial damage throughout the Borough was incurred as a result of Superstorm Sandy. Many homes are being elevated as a result to comply with local ordinances.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>New Ordinance</i>
<b>Action type</b>	<i>Specifically allow variances on foundations of newly built structures</i>
<b>Action description</b>	<i>Develop a plan to allow variances on foundations of newly built structures</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The proposed mitigation will result in reduced future storm damages to residential structures, personal property and protect public health and safety during future events. This could result in the reduction of millions of dollars in clean-up cost to teh borough and potentially hundreds of millions in damage to private property dependent upon the number of proerty owners who take advantage of the allowable variances.</i>
<b>Cost estimate</b>	<i>\$5,000 to develop ordinance</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This action is likely to be cost effective, with benefits in the millions to hundreds of millions of dollars and a cost of only \$5,000.</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by comissioners and the mayor</i>
<b>Legal</b>	<i>The community does have the legal authority to implement this project</i>
<b>Environmental</b>	<i>There are no negative environmental impacts caused by this project</i>
<b>Social</b>	<i>There are no social impacts from this project on the community</i>
<b>Administrative capability</b>	<i>The community does have the personnel and administrative capability implement this action as well as maintain it.</i>
<b>Local champion</b>	<i>Commisioners and the mayor</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
<b>Responsible party</b>	<i>Borough Administrator</i>
<b>Potential funding sources</b>	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
<b>Time line</b>	<i>The Borough has already begun revising ordinances and procedures to grant variances to property owners</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Ongoing -carried forward from the last version of the plan</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Keansburg</i>
<b>Community action number</b>	<i>11</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Drought</i>
<b>Risk finding</b>	<i>Use of water for landscaping purposes during periods of drought exacerbates drought impacts by shifting limited water resources away from the most critical needs.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>New Ordinance</i>
<b>Action type</b>	<i>Developing water use restriction ordinances</i>
<b>Action description</b>	<i>Develop ordinances to restrict landscaping water useage in times of drought</i>
<b>Existing, future &amp;/or NA</b>	<i>Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The proposed ordinances will prevent over use of the boroughs water resources decreasing the boroughs dependency on outside water service provider (NJ American Water) and the costs incurred thereof which could potentially be in the hundreds of thousands of dollars</i>
<b>Cost estimate</b>	<i>\$5,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This action is likely to be cost effective, with potential benefits as high as the hundreds of thousands of dollars and a cost of only \$5,000</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by comissioners and the mayor</i>
<b>Legal</b>	<i>The community does have the legal authority to implement this project</i>
<b>Environmental</b>	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
<b>Social</b>	<i>There are no social impacts from this project on the community</i>
<b>Administrative capability</b>	<i>The community does have the personnel and administrative capability implement this action as well as maintain it.</i>
<b>Local champion</b>	<i>Commisioners and the mayor</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
<b>Responsible party</b>	<i>Borough Administrator</i>
<b>Potential funding sources</b>	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
<b>Time line</b>	<i>Not yet initiated, actively seeking funding</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Ongoing - carried forward from the last version of the plan</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Keansburg</i>
<b>Community action number</b>	<i>19</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding due to inland and coastal floods, hurricanes, nor'easters, and storm surges</i>
<b>Risk finding</b>	<i>The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities .</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Community Outreach Program</i>
<b>Action type</b>	<i>Developing Outreach Program</i>
<b>Action description</b>	<i>Create an outreach program to help residents prepare for disasters</i>
<b>Existing, future &amp;/or NA</b>	<i>Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The proposed outreach program will help to better prepare the boroughs residents for natural disasters. Hurricane Sandy devastated homes in the borough causing hundreds of millions of dollars in damages. Some of these damages could be mitigated if the public stays informed on potential low-cost, small-scale mitigation activities.</i>
<b>Cost estimate</b>	<i>\$10,000 to develop program</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This action is likely to be cost effective, with potential benefits in the hundreds of millions of dollars and a cost of only \$10,000.</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by council and the mayor</i>
<b>Legal</b>	<i>The community does have the legal authority to implement this project</i>
<b>Environmental</b>	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
<b>Social</b>	<i>There are no social impacts from this project on the community</i>
<b>Administrative capability</b>	<i>The community does have the personnel and administrative capability implement this action as well as maintain it.</i>
<b>Local champion</b>	<i>Council and the mayor</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
<b>Responsible party</b>	<i>Mayor and Council, Borough Manager, OEM Coordinators</i>
<b>Potential funding sources</b>	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
<b>Time line</b>	<i>Dependent upon municipality securing grant funding</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Ongoing- carried forward from the last version of the plan</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Keyport</i>
<b>Community action number</b>	<i>1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding, storm surge, wave action, hurricanes, tropical storms, nor'easters</i>
<b>Risk finding</b>	<i>About half of the Borough of Keyport is susceptible to storm surge, mainly via tidal surges up local streams. 95 homes encountered flood damage from storm tides and surges during Sandy, and elevation would mitigate against repeated loss of homes due to flooding. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural Project</i>
<b>Action type</b>	<i>Elevation</i>
<b>Action description</b>	<i>Elevation of 95 Homes</i>
<b>Existing, future &amp;/or NA</b>	<i>Protects existing development</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Elevating the residential properties to move them out of dangerous flood levels, and avoid the loss of homes. Losses avoided are estimated to be \$8,850,000.</i>
<b>Cost estimate</b>	<i>\$2,850,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>The long term social and environmental benefits outweigh the cost. This project is likely to be cost effective, with benefits in the order of \$8,850,000 and project costs of \$2,850,000.</i>
<b>Technical</b>	<i>This mitigation action is technically feasible, voluntarily</i>
<b>Political</b>	<i>The project is viewed favorably in the Borough</i>
<b>Legal</b>	<i>The borough has the authority to implement this action, on a voluntary basis.</i>
<b>Environmental</b>	<i>This project will comply with environmental regulations, no negative impacts are expected.</i>
<b>Social</b>	<i>The improvements will effect the current property owners in a beneficial way, but will not disrupt the community on a whole.</i>
<b>Administrative capability</b>	<i>The community has the capacity to implement and maintain the project, outside contractor assistance will be needed for the action.</i>
<b>Local champion</b>	<i>Post Sandy Strategic Planning Committee</i>
<b>Other community objectives</b>	<i>Further Keyport's environmental quality and safety objectives.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>Zoning Officer/ planning board</i>
<b>Responsible party</b>	<i>Business Administrator</i>
<b>Potential funding sources</b>	<i>Grants, bonds</i>
<b>Time line</b>	<i>Dec-15</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New Action.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Keyport</i>
Community action number	2
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, - storm surge, wave action, hurricanes, tropical storms, nor'easters</i>
Risk finding	<i>About half of the Borough of Keyport is susceptible to storm surge, mainly via tidal surges up local streams. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
Action category	<i>Structural Project</i>
Action type	<i>Acquisition</i>
Action description	<i>Acquire 2 flood prone properties and prohibit future building in flood prone areas.</i>
Existing, future &/or NA	<i>Both</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Losses avoided by acquiring these 2 properties are estimated to be on the order of \$12,324,200.</i>
Cost estimate	<i>\$3,566,800</i>
Cost effectiveness (i.e., benefit/cost)	<i>The long term social and environmental benefits outweigh the cost. This project is likely to be cost effective, with benefits on the order of \$12,324,200 and costs of about \$3,566,800.</i>
Technical	<i>This mitigation action is technically feasible</i>
Political	<i>The project is viewed favorably in the Borough</i>
Legal	<i>The borough has the authority to implement this action.</i>
Environmental	<i>This project will comply with environmental regulations, no negative impacts are expected.</i>
Social	<i>The improvements will effect the current property owners in a beneficial way, but will not disrupt the community on a whole.</i>
Administrative capability	<i>The Borough has the administrative capacity to implement and maintain this project.</i>
Local champion	<i>Post Sandy Strategic Planning Committee</i>
Other community objectives	<i>Further Keyport's environmental quality and safety objectives.</i>
<b>Implementing the Action</b>	
Priority	<i>Medium</i>
Local planning mechanism	<i>Zoning officer/ planning board</i>
Responsible party	<i>Business Administrator</i>
Potential funding sources	<i>Grants, bonds</i>
Time line	<i>Dec-15</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Keyport</i>
Community action number	3
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding</i>
Risk finding	<i>The existing bulkhead system is comprised of both public and private bulkheads, and there are certain areas with no bulkheads. While the bulkhead system, in combination with some roads which have been raised, have worked to protect certain areas, locations where there are breaks in the line of protection are more vulnerable than other areas. Affected properties are residential and commercial.</i>
<b>Describing the Action</b>	
Action category	<i>Structure and Infrastructure Projects</i>
Action type	<i>Construct Flood Control Measures</i>
Action description	<i>Increase elevation and replacement of existing bulkhead</i>
Existing, future &/or NA	<i>Existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The roadway affected is a major artery leading to the New Jersey Evacuation Route. Residences and commercial use properties are vulnerable. Losses avoided by this project are estimated to be roughly \$10,670,800.</i>
Cost estimate	<i>\$951,800</i>
Cost effectiveness (i.e., benefit/cost)	<i>The long term social and environmental benefits outweigh the cost. This project is likely to be cost effective, with benefits in the order of \$10,670,800 and project costs of \$951,800.</i>
Technical	<i>This action is technically feasible.</i>
Political	<i>The project is viewed favorably in the Borough</i>
Legal	<i>The borough has the authority to implement this action.</i>
Environmental	<i>Elevation of the height and replacement of the bulkhead will comply with environmental regulations.</i>
Social	<i>The improvements will be beneficial to the population as a whole, and it will not disrupt any residents, neighborhoods, or districts.</i>
Administrative capability	<i>The community has the capacity to implement and maintain the project, outside contractor assistance will be needed for the action.</i>
Local champion	<i>Post Sandy Strategic Planning Committee</i>
Other community objectives	<i>Further Keyport's environmental quality and safety objectives.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Zonig officer/ planning board approval</i>
Responsible party	<i>Business Administrator</i>
Potential funding sources	<i>Grants, bonds</i>
Time line	<i>Dec-15</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New action</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Keyport</i>
Community action number	<i>4</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, storm surge, hurricanes, tropical storms, nor'easters</i>
Risk finding	<i>Flooding and damage to the sewer system pump stations (i.e., Maple Place) that can result in overflow of untreated sewage into natural waterways. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
Action category	<i>Natural Resource protection/structural improvements</i>
Action type	<i>Protect Infrastructure and Critical Facilities</i>
Action description	<i>Maple Place Pump Station Improvements- Elevating electrical panels, modifications for water tightness, generators to mitigate power loss and surging.</i>
Existing, future &/or NA	<i>Existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Make improvements to the pump station in the event of a storm and flooding to prevent untreated sewage leakage, and protect the natural waterways as well as public health. Elevating electrical panels and modifications for watertightness will eliminate damage repair costs for various system components. Unfortunately historic records for this station are no longer available and cannot be incorporated into a benefits analysis. Secondary benefits include reduced environmental impacts to the adjacent waterway due to untreated wastewater overflows and the fact that the station is situated in a flooding area that presents a health and safety concern to Borough personnel that need to maintain and keep the station operational during adverse weather conditions. Benefits are unquantifiable but are expected to be at least equal to the \$718,900 project costs.</i>
Cost estimate	<i>\$718,900</i>
Cost effectiveness (i.e., benefit/cost)	<i>It is in the opinion of the Borough that the proposed mitigation solution is a cost effective measure when considering environmental impacts to the adjacent waterway due to untreated wastewater overflows and the fact that the station is situated in a flooding area that presents a health and safety concern to Borough personnel that need to maintain and keep the station operational during adverse weather conditions, with total benefits at least equal to the \$718,900 project costs.</i>
Technical	<i>This mitigation action is technically feasible</i>
Political	<i>The project is viewed favorably in the Borough</i>
Legal	<i>The borough has the authority to implement this action.</i>
Environmental	<i>This project will comply with environmental regulations, no negative impacts are expected.</i>
Social	<i>The improvements will be beneficial to the population as a whole, and it will not disrupt any residents, neighborhoods, or districts.</i>
Administrative capability	<i>The community has the capacity to implement and maintain the project, outside contractor assistance will be needed for the action.</i>
Local champion	<i>Post Sandy Strategic Planning Committee</i>
Other community objectives	<i>Further Keyport's environmental quality and safety objectives.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Sewer Sytem and Roads ordinances</i>
Responsible party	<i>Business Administrator</i>
Potential funding sources	<i>Grants, bonds</i>
Time line	<i>Dec-15</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Keyport</i>
Community action number	5
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, storm surge, hurricanes, tropical storms, nor'easters</i>
Risk finding	<i>Flooding and damage to the sewer system pump stations that can result in overflow of untreated sewage into natural waterways. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
Action category	<i>Natural Resource protection/structural improvemynts</i>
Action type	<i>Protect Infrastructure and Critical Facilities</i>
Action description	<i>Install generator to ensure proper performance in the event of a loss of power.</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Efficiently power the pump station in the event power is lost to prevent untreated sewage leakage, and protect the natural waterways as well as public health. Losses avoided are estimated to be approximately \$55,543</i>
Cost estimate	<i>44,301</i>
Cost effectiveness (i.e., benefit/cost)	<i>The long term social and environmental benefits outweigh the cost. This project is likely to be cost effective, with benefits of \$55,543 and costs of only \$44,301.</i>
Technical	<i>This mitigation action is technically feasible</i>
Political	<i>The project is viewed favorably in the Borough</i>
Legal	<i>The borough has the authority to implement this action.</i>
Environmental	<i>This project will comply with environmental regulations, no negative impacts are expected.</i>
Social	<i>The improvements will be beneficial to the population as a whole, and it will not disrupt any residents, neighborhoods, or districts.</i>
Administrative capability	<i>The community has the capacity to implement and maintain the project, outside contractor assistance will be needed for the action.</i>
Local champion	<i>Post Sandy Strategic Planning Committee</i>
Other community objectives	<i>Furtheres Keyport's environmental quality and safety objectives.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Sewer Sytem and Roads ordinances</i>
Responsible party	<i>Business Administrator</i>
Potential funding sources	<i>Grants, bonds</i>
Time line	<i>Dec-15</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Keyport</i>
Community action number	6
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, hurricanes, tropical storms, nor'easters</i>
Risk finding	<i>Insufficient roadway drainage (curbing, culverts, etc) leads to street flooding and flooding of multi-family, residential, and commercial properties. Lack of drainage and subsequent flooding hinder access to the Evacuation Route, and the emergency vehicles access to the roadway.</i>
<b>Describing the Action</b>	
Action category	<i>Structure and Infrastructure Projects</i>
Action type	<i>Stormwater Drainage System Improvements</i>
Action description	<i>Road Culvert and Drainage Improvements - Increase drainage and curbing this is the Green Grove Ave project carrying forward from the last plan.</i>
Existing, future &/or NA	<i>Both</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Losses avoided are estimated to be roughly \$966,600 in property and avoid potential loss of life.</i>
Cost estimate	<i>\$308,427</i>
Cost effectiveness (i.e., benefit/cost)	<i>The long term social and environmental benefits outweigh the cost. This project is likely to be cost effective, with benefits of \$966,600 and costs of only \$308,427.</i>
Technical	<i>This mitigation action is technically feasible</i>
Political	<i>The project is viewed favorably in the Borough</i>
Legal	<i>The borough has the authority to implement this action.</i>
Environmental	<i>This project will comply with environmental regulations, no negative impacts are expected.</i>
Social	<i>The improvements will be beneficial to the population as a whole, and it will not disrupt any residents, neighborhoods, or districts.</i>
Administrative capability	<i>The community has the capacity to implement and maintain the project, outside contractor assistance will be needed for the action.</i>
Local champion	<i>Post Sandy Strategic Planning Committee</i>
Other community objectives	<i>Further Keyport's environmental quality and safety objectives.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Sewer Sytem and Roads ordinances</i>
Responsible party	<i>Business Administrator</i>
Potential funding sources	<i>Grants, bonds</i>
Time line	<i>Dec-15</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried Forward</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Keyport</i>
Community action number	7
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, Environmental</i>
Risk finding	<i>Insufficient capacity of the stormwater system results in frequent flooding in residential and commercial areas</i>
<b>Describing the Action</b>	
Action category	<i>Structure and infrastructure projects</i>
Action type	<i>Stormwater Drainage System Improvements</i>
Action description	<i>Additional storm sewer piping, reduction of backwater, and increasing the capacity of the stormwater system.</i>
Existing, future &/or NA	<i>Both</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Reduce the frequency and severity of flooding in commercial and residential areas. Losses avoided as a result of systemwide improvements are estimated to be \$2,412,600</i>
Cost estimate	<i>\$1,102,556</i>
Cost effectiveness (i.e., benefit/cost)	<i>The long term social, safety and environmental benefits outweigh the cost. This project is likely to be cost effective, with benefits of \$2,412,600 and costs of only \$1,102,556.</i>
Technical	<i>This mitigation action is technically feasible</i>
Political	<i>The project is viewed favorably in the Borough</i>
Legal	<i>The borough has the authority to implement this action.</i>
Environmental	<i>This project will comply with environmental regulations, no negative impacts are expected.</i>
Social	<i>The improvements will be beneficial to the population as a whole, and it will not disrupt any residents, neighborhoods, or districts.</i>
Administrative capability	<i>The community has the capacity to implement and maintain the project, outside contractor assistance will be needed for the action.</i>
Local champion	<i>Post Sandy Strategic Planning Committee</i>
Other community objectives	<i>Furthers Keyport's environmental quality and safety objectives.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Sewer System and Roads ordinances</i>
Responsible party	<i>Business Administrator</i>
Potential funding sources	<i>Grants, bonds, Blue Acres program</i>
Time line	<i>Dec-15</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Keyport</i>
Community action number	<i>8</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, storm surge, hurricanes, tropical storms, nor'easters</i>
Risk finding	<i>The current Firemen's Park bulkhead height is not sufficient to mitigate against high tide and storm related flooding. This has been a repetitive loss area affecting public property and the safe enjoyment of recreational areas as well as safe passage through roadways and access to commercial properties.</i>
<b>Describing the Action</b>	
Action category	<i>Structure and Infrastructure Projects</i>
Action type	<i>Construct Flood Control Measures</i>
Action description	<i>Firemen's Park Bulkhead Improvements - Elevate the bulkhead at Firemen's park to prevent future flooding of public property and roadways</i>
Existing, future &/or NA	<i>Both</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Losses avoided are estimated to be \$6,500,000</i>
Cost estimate	<i>\$569,370</i>
Cost effectiveness (i.e., benefit/cost)	<i>The long term social and environmental benefits outweigh the cost . The project is likely to be cost effective, with estimated benefits of \$6,500,000 and estimated costs of only \$569,370.</i>
Technical	<i>This action is technically feasible.</i>
Political	<i>The project is viewed favorably in the Borough</i>
Legal	<i>The borough has the authority to implement this action.</i>
Environmental	<i>Elevation of the height of the bulkhead will comply with environmental regulations.</i>
Social	<i>The improvements will be beneficial to the population as a whole, and it will not disrupt any residents, neighborhoods, or districts.</i>
Administrative capability	<i>The community has the capacity to implement and maintain the project, outside contractor assistance will be needed for the action.</i>
Local champion	<i>Post Sandy Strategic Planning Committee</i>
Other community objectives	<i>Furthers Keyport's environmental quality, social objectives, and safety objectives.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Zoning officer/ planning board approval</i>
Responsible party	<i>Business Administrator</i>
Potential funding sources	<i>Grants, bonds</i>
Time line	<i>Dec-15</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Keyport</i>
Community action number	2
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, storm surge, hurricanes and tropical storms, nor'easters.</i>
Risk finding	<i>Blockages and backflow of tidal and stormwaters in drainage systems contributes to flooding of roadways, borough, commercial and residential properties.</i>
<b>Describing the Action</b>	
Action category	<i>Structure and Infrastructure Projects</i>
Action type	<i>Stormwater drainage system improvements</i>
Action description	<i>Install Tideflex Valves to alleviate blockages and prohibit foreign objects in the outflow pipes.</i>
Existing, future &/or NA	<i>Both</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Mitigates against back up flooding into roadways, borough, commercial and residential properties. Losses avoided by this project are estimated to be roughly \$3,560,000</i>
Cost estimate	<i>\$46,188</i>
Cost effectiveness (i.e., benefit/cost)	<i>The long term social and environmental benefits outweigh the cost. This project is likely to be cost-effective, with benefits of \$3,560,000 and costs of only \$46,188.</i>
Technical	<i>This action is technically feasible.</i>
Political	<i>The project is viewed favorably in the Borough</i>
Legal	<i>The borough has the authority to implement this action.</i>
Environmental	<i>Addition of the valves will comply with environmental regulations.</i>
Social	<i>The improvements will be beneficial to the population as a whole, and it will not disrupt any residents, neighborhoods, or districts.</i>
Administrative capability	<i>The community has the capacity to implement and maintain the project, outside contractor assistance will be needed for the action.</i>
Local champion	<i>Post Sandy Strategic Planning Committee</i>
Other community objectives	<i>Further Keyport's environmental quality and safety objectives.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Sewer System and Roads ordinances</i>
Responsible party	<i>Business Administrator</i>
Potential funding sources	<i>Grants, bonds</i>
Time line	<i>Dec-15</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Keyport</i>
Community action number	<i>10</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, hurricane and tropical storms, nor'easters, coastal erosion, surge</i>
Risk finding	<i>Silting continually blocks the discharge of stormwater in several areas of town resulting in flooding, and inhibits the Borough's ability to complete beach restoration projects and future maintenance projects on the beach without risk of obstructing the pipe. (i.e., Beach Park pipe discharging Division Street)</i>
<b>Describing the Action</b>	
Action category	<i>Structure and Infrastructure Projects</i>
Action type	<i>Drainage System Improvements</i>
Action description	<i>Extend the Beach Park pipe discharging Division Street to prevent flooding due to obstruction of the pipe.</i>
Existing, future &/or NA	<i>Both</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Prevents the backup of stormwater discharge in several areas of town, and allow future maintenance projects on the beach without risk of obstructing the pipe thus providing secondary erosion and surge protection from having adequate and maintained beach..Losses avoided by this project are estimated to be on the order of \$8,000,000.</i>
Cost estimate	<i>\$700,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>The long term social and environmental benefits outweigh the cost. This project is likely to be cost effective, with benefits on the order of \$8,000,000 and costs of only \$700,000.</i>
Technical	<i>This mitigation action is technically feasible</i>
Political	<i>The project is viewed favorably in the Borough</i>
Legal	<i>The borough has the authority to implement this action.</i>
Environmental	<i>This project will comply with environmental regulations, no negative impacts are expected.</i>
Social	<i>The improvements will be beneficial to the population as a whole, and it will not disrupt any residents, neighborhoods, or districts.</i>
Administrative capability	<i>The community has the capacity to implement and maintain the project, outside contractor assistance will be needed for the action.</i>
Local champion	<i>Post Sandy Strategic Planning Committee</i>
Other community objectives	<i>Furthers Keyport's environmental quality and safety objectives.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Sewer Sytem and Roads ordinances</i>
Responsible party	<i>Business Administrator</i>
Potential funding sources	<i>Grants, bonds</i>
Time line	<i>Dec-15</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Lake Como Borough</i>
<b>Community action number</b>	<i>1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding and Storm Surge , Hurricane and Tropical Storm, Nor'easters</i>
<b>Risk finding</b>	<i>Lake Como is the primary source of flooding in the Borough. During severe storms, water drains into the Lake but outfall design constraints prevent the water from making its way into the ocean before water overflows the banks and floods back into surrounding areas. The entirety of Lake Como is in mapped storm surge hazard areas. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure Projects</i>
<b>Action type</b>	<i>Drainage, berm build up</i>
<b>Action description</b>	<i>Lake Como, Spring Lake &amp; Belmar are seeking remedies to prevent flooding. Currently implementing a quick solution to reduce the amount of water in the lake prior to heavy rain events. The outfall pipe and area for pumps has to be designed to allow water to be released to the ocean, but not allow the ocean water to fill in the lake. During heavy rain events the water level fills faster than the water is removed- this is the remedy we have to design to prevent future flooding.</i>
<b>Existing, future &amp;/or NA</b>	<i>Protects existing and future development.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Action is needed to prevent loss of structures as a result of flooding. This project will eliminate the cost of rebuilding following a major rain event. Losses avoided by the project could be on the order of \$2,000,000 to 3,000,000 per major event..</i>
<b>Cost estimate</b>	<i>Cost estimates will be generated upon plans of final solution. The cost of the project is expected to be on the order of \$2,000,000.. Assuming a project useful life of about 50 years, this could represent an annual cost of roughly \$40,000.00.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Will eliminate the cost of rebuilding following a major rain event. This project is likely to be cost effective, with annual benefits of roughly \$3,000,000 per year and annual costs of roughly \$50,000 per year.</i>
<b>Technical</b>	<i>Feasible: Need the 3 towns to agree on one firm to engineer the project.</i>
<b>Political</b>	<i>There is overall public support in Lake Como for this project.</i>
<b>Legal</b>	<i>No, rely on the 3 towns to agree on the plan.</i>
<b>Environmental</b>	<i>Will reduce the impact of flooding.</i>
<b>Social</b>	<i>This action will effect those living in the neighborhoods surrounding and near the lake.</i>
<b>Administrative capability</b>	<i>All three communities participation will be needed.</i>
<b>Local champion</b>	<i>A Lake Planning committee was formed between the 3 communities.</i>
<b>Other community objectives</b>	<i>Yes, this project would effect the other projects if the flooding and storm surge were reduced.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Committee of three towns will participate and plan</i>
<b>Responsible party</b>	<i>Lake Como, Spring Lake &amp; Belmar all responsible</i>
<b>Potential funding sources</b>	<i>Environmental Infrastructure and Hazard Mitigation grant</i>
<b>Time line</b>	<i>Waiting on Engineer estimate</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>This is carried forward from prior plan, but action has moved forward by the three communities.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Lake Como Borough</i>
<b>Community action number</b>	2
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding and Storm Surge, Hurricane and Tropical Storm, Nor'easters</i>
<b>Risk finding</b>	<i>Home structure damage as a result of flooding. Flooding of residential structures around Lake Como is a big issue for the Borough. Lake Como is the primary source of flooding in the Borough. During severe storms, water drains into the Lake but outfall design constraints prevent the water from making its way into the ocean before water overflows the banks and floods back into surrounding areas. The entirety of Lake Como is in mapped storm surge hazard areas. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure Projects</i>
<b>Action type</b>	<i>Elevation</i>
<b>Action description</b>	<i>Home elevations to comply with the FEMA flood base guidelines.</i>
<b>Existing, future &amp;/or NA</b>	<i>Protects existing and future development.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Action is needed to prevent loss of structures as a result of flooding. Will eliminate the cost of rebuilding following a major rain event. Losses avoided by the project could be on the order of \$2,000,000 to 3,000,000 per major event..</i>
<b>Cost estimate</b>	<i>\$100,000 per home. If 100 homes were elevated the total cost would be \$10,000,000.00.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective. Generally speaking, elevations tend to be a very cost effective way of reducing damages when projects are focused on a subset of the most at-risk structures in a community (in this case, where annual damages are at least about \$2,000 per year overall). This elevation project is likely to pay for itself after only about 3 to 5 large events.</i>
<b>Technical</b>	<i>Action is feasible.</i>
<b>Political</b>	<i>There is overall public support in Lake Como for this project.</i>
<b>Legal</b>	<i>No, homeowners would have to agree to the home elevations.</i>
<b>Environmental</b>	<i>Will reduce structural damage to homes in the flood hazard area.</i>
<b>Social</b>	<i>This action will effect those living in the neighborhoods surrounding and near the lake.</i>
<b>Administrative capability</b>	<i>Borough personnel would work with contractors to implement this action.</i>
<b>Local champion</b>	<i>The administrative, planning, building and office of emergency management all working together to make this happen.</i>
<b>Other community objectives</b>	<i>This action does not further other projects, however has an overall positive effect for the community.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Local ordinance has already been adopted reflecting the new Flood Base plan elevations.</i>
<b>Responsible party</b>	<i>Lake Como Construction Official will be the lead person.</i>
<b>Potential funding sources</b>	<i>Hazard Mitigation grants, and individual homeowner insurance and FEMA monies.</i>
<b>Time line</b>	<i>Completion for entire project 2 to 3 years.</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>This is carried forward from prior plan, but action has moved forward by the three communities.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Lake Como Borough</i>
Community action number	3
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Other : Brown DrinkingWater, Water quality issues</i>
Risk finding	<i>Secondary contaminant is causing the brown water and is aesthetically unpleasing. High iron and magonese in testing.</i>
<b>Describing the Action</b>	
Action category	<i>Infrastructure project</i>
Action type	<i>System improvements</i>
Action description	<i>Lining project and replacement to upgrade the distribution of water system</i>
Existing, future &/or NA	<i>Protects existing and future development.</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Action is needed to improve the water quality which has been steadily decreasing in the past year.</i>
Cost estimate	<i>\$5,000,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>Cost effective because citizens are not drinking the water.</i>
Technical	<i>Action is feasible.</i>
Political	<i>There is overall public support in Lake Como for this project.</i>
Legal	<i>Yes, authorized by Governing Body.</i>
Environmental	<i>Will eliminate the negative effects caused by brown water. Working with the DEP on system improvements.</i>
Social	<i>This project will affect the entire population as we will upgrade the lines in the entire town.</i>
Administrative capability	<i>Borough personnel would work with contractors to implement this action.</i>
Local champion	<i>The Governing Body, administrative, Engineering, legal and Public Works/Water Department all working together to make this happen.</i>
Other community objectives	<i>This action does not further other projects, however has an overall positive effect for the community.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Engineering is designing plans to complete this project; The Governing Body has approved the capital improvements.</i>
Responsible party	<i>Municipal Engineer</i>
Potential funding sources	<i>NJ Environmental Infrastructure program; US Department of Agriculture; possible mitigation grant; local funding through bonds issued</i>
Time line	<i>Completion for entire project 2 to 3 years.</i>
<b>Reporting on Progress</b>	
Action progress status	<i>This item is a new action item which was added during this cycle and was not part of the last plan update.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Lake Como Borough</i>
<b>Community action number</b>	4
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding, surge, extreme wind, hurricane and tropical storm, nor'easter, extreme temperatures, lightning</i>
<b>Risk finding</b>	<i>Loss of power is possible during hazard events including flooding, surge, extreme wind, hurricane and tropical storm, nor'easter, extreme temperatures, and lightning. Academy Charter High School is an Emergency Shelter which lacks backup power.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure Project</i>
<b>Action type</b>	<i>Protect Critical Facilities</i>
<b>Action description</b>	<i>Purchase a generator for the Emergency Shelter; Location is the Academy Charter High School where we plan to utilize the gymnasium as an Emergency shelter, 1725 Main Street, located across the street from the Office of Emergency management.</i>
<b>Existing, future &amp;/or NA</b>	<i>Protects existing and future development.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>This action will provide a back up emergency generator during times of loss of power. This action will provide a temporary shelter for the community when there is a power outage. This action is for the safety and welfare of the community. Losses avoided are estimated to be between \$10,000 and \$100,000 per year.</i>
<b>Cost estimate</b>	<i>\$70,000 total (or, based on a useful life of 20 years for the generator, the annual costs would be about \$3500 per year)</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Yes, this will be cost effective. Benefits are estimated to be \$10,000 to 100,000 per year and costs are estimated to be \$3,500 per year.</i>
<b>Technical</b>	<i>Action is feasible.</i>
<b>Political</b>	<i>There is overall public support in Lake Como for this project.</i>
<b>Legal</b>	<i>Yes, authorized by Governing Body.</i>
<b>Environmental</b>	<i>There are no environmental impacts. This is a planning mechanism to have a facility large enough to accommodate our residents during times of emergencies.</i>
<b>Social</b>	<i>This project will affect the entire population.</i>
<b>Administrative capability</b>	<i>Borough personnel would work with contractors to implement this action.</i>
<b>Local champion</b>	<i>The Governing Body, Academy Charter High School administration, administrative, and Office of Emergency Management.</i>
<b>Other community objectives</b>	<i>This action does not further other projects, however has an overall positive effect for the community.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Office of Emergency Management will coordinate with school.</i>
<b>Responsible party</b>	<i>Office of Emergency Management will coordinate with school.</i>
<b>Potential funding sources</b>	<i>Hazard Mitigation Grant; local funding.</i>
<b>Time line</b>	<i>Completion for entire project is 1 year.</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>This item is a new action item which was added during this cycle and was not part of the last plan update.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Lake Como Borough</i>
Community action number	5
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, surge, extreme wind, hurricane and tropical storm, nor'easter, extreme temperatures, lightning</i>
Risk finding	<i>Loss of power is possible during hazard events including flooding, surge, extreme wind, hurricane and tropical storm, nor'easter, extreme temperatures, and lightning. OEM Central Command Center lacks backup power .</i>
<b>Describing the Action</b>	
Action category	<i>Structure and Infrastructure Project</i>
Action type	<i>Protect Critical Facilities</i>
Action description	<i>Purchase a generator for theCentral Command Center of the Office of Emergency Management which is located in the Municipal Complex, 1730-1740 Main Street.</i>
Existing, future &/or NA	<i>Protects existing and future development.</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>This action will provide a back up emergency generator during times of loss of power. This action prevents loss of power in the central command center of the Office of Emergency Mangement and allows continued communications with local, county and state.Losses avoided are estimated to be between \$10,000 and \$100,000 per year.</i>
Cost estimate	<i>\$80,000 total (or, based on a useful life of 20 years for the generator, the annual costs would be about \$4,000 per year)</i>
Cost effectiveness (i.e., benefit/cost)	<i>Yes, this will be cost effective. Benefits are estimated to be \$10,000 to 100,000 per year and costs are estimated to be \$4,000 per year.</i>
Technical	<i>Action is feasible.</i>
Political	<i>There is overall public support in Lake Como for this project.</i>
Legal	<i>Yes, authorized by Governing Body.</i>
Environmental	<i>There are no environmental impacts. This is a planning mechanism to prevent any power outages and have continued services for residents and contact with residents, and state and county agencies.</i>
Social	<i>This project will affect the entire population.</i>
Administrative capability	<i>Borough personnel would work with contractors to implement this action.</i>
Local champion	<i>The Governing Body, administrative, and Office of Emergency Management.</i>
Other community objectives	<i>This action does not further other projects, however has an overall positive effect for the community.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Office of Emergency Management and Administration.</i>
Responsible party	<i>Office of Emergency Management and Administration.</i>
Potential funding sources	<i>Hazard Mitigation Grant; local funding.</i>
Time line	<i>Completion for entire project is 1 year.</i>
<b>Reporting on Progress</b>	
Action progress status	<i>This item is a new action item which was added during this cycle and was not part of the last plan update.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Lake Como Borough</i>
<b>Community action number</b>	6
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding, surge, extreme wind, hurricane and tropical storm, nor'easter, extreme temperatures, lightning</i>
<b>Risk finding</b>	<i>Loss of power is possible during hazard events including flooding, surge, extreme wind, hurricane and tropical storm, nor'easter, extreme temperatures, and lightning. The Public Works Building lacks backup power.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure Project</i>
<b>Action type</b>	<i>Protect Critical Facilities</i>
<b>Action description</b>	<i>Purchase a generator for the Public Works Building which is essential during times of emergencies. Located at 790 Seventeenth Avenue.</i>
<b>Existing, future &amp;/or NA</b>	<i>Protects existing and future development.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>This action will provide a bank up emergency generator during times of loss of power. This action prevents loss of power in the public works department building. Losses avoided are estimated to be between \$10,000 and \$100,000 per year.</i>
<b>Cost estimate</b>	<i>\$40,000 total (or, based on a useful life of 20years for the generator, the annual costs would be about \$2,000 per year)</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Yes, this will be cost effective. Benefits are estimated to be \$10,000 to 100,000 per year and costs are estimated to be \$2,000 per year.</i>
<b>Technical</b>	<i>Action is feasible.</i>
<b>Political</b>	<i>There is overall public support in Lake Como for this project.</i>
<b>Legal</b>	<i>Yes, authorized by Governing Body.</i>
<b>Environmental</b>	<i>There are no environmental impacts. This is a planning mechanism.</i>
<b>Social</b>	<i>This project will affect the entire population.</i>
<b>Administrative capability</b>	<i>Borough personnel would work with contractors to implement this action.</i>
<b>Local champion</b>	<i>The Governing Body, administrative, and Office of Emergency Management.</i>
<b>Other community objectives</b>	<i>This action does not further other projects, however has an overall positive effect for the community.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Office of Emergency Management and Administration.</i>
<b>Responsible party</b>	<i>Office of Emergency Management and Administration.</i>
<b>Potential funding sources</b>	<i>Hazard Mitigation Grant; local funding.</i>
<b>Time line</b>	<i>Completion for entire project is 1 year.</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>This item is a new action item which was added during this cycle and was not part of the last plan update.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Lake Como Borough</i>
<b>Community action number</b>	7
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding, surge, extreme wind, hurricane and tropical storm, nor'easter, extreme temperatures, lightning</i>
<b>Risk finding</b>	<i>Loss of power is possible during hazard events including flooding, surge, extreme wind, hurricane and tropical storm, nor'easter, extreme temperatures, and lightning. The First Response Emergency Center lacks backup power.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure Project</i>
<b>Action type</b>	<i>Protect Critical Facilities</i>
<b>Action description</b>	<i>Purchase a generator for the First Aid Building which is the First Response Emergency Center. 703 Eighteenth Avenue.</i>
<b>Existing, future &amp;/or NA</b>	<i>Protects existing and future development.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>This action prevents loss of power in the First Aid Building. During times of emergencies, this location is used to assist those who need immediate medical attention and because of the conditions the person has to be held until roads are accessible. Losses avoided are estimated to be between \$10,000 and \$100,000 per year.</i>
<b>Cost estimate</b>	<i>\$40,000 Total (or, based on a useful life of 20 years for the generator, the annual costs would be about \$2,000 per year)</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Yes, this will be cost effective. Benefits are estimated to be \$10,000 to 100,000 per year and costs are estimated to be \$2,000 per year.</i>
<b>Technical</b>	<i>Action is feasible.</i>
<b>Political</b>	<i>There is overall public support in Lake Como for this project.</i>
<b>Legal</b>	<i>Yes, authorized by Governing Body.</i>
<b>Environmental</b>	<i>There are no environmental impacts. This is a planning mechanism to have an immediate emergency facility large enough to accommodate our residents during times of emergencies.</i>
<b>Social</b>	<i>This project will affect the entire population.</i>
<b>Administrative capability</b>	<i>Borough personnel would work with contractors to implement this action.</i>
<b>Local champion</b>	<i>The Governing Body, administrative, and Office of Emergency Management.</i>
<b>Other community objectives</b>	<i>This action does not further other projects, however has an overall positive effect for the community.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Office of Emergency Management and Administration.</i>
<b>Responsible party</b>	<i>Office of Emergency Management and Administration.</i>
<b>Potential funding sources</b>	<i>Hazard Mitigation Grant; local funding.</i>
<b>Time line</b>	<i>Completion for entire project is 1 year.</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>This item is a new action item which was added during this cycle and was not part of the last plan update.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Lake Como Borough</i>
<b>Community action number</b>	<i>8</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Heavy wind events (wind only events, as well as other types of storms where high winds are a component such as thunderstorms, winter storms, hurricanes and tropical storms, and nor'easters)</i>
<b>Risk finding</b>	<i>This action will provide adequate hurricane windows and roof straps to insure the integrity of the Emergency Command Center building during times of hurricanes and large wind/rain events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure Projects</i>
<b>Action type</b>	<i>Protect Critical Facilities</i>
<b>Action description</b>	<i>Emergency Command Center: Installation of hurricane windows and roof straps which will be in the complex location at 1730-1740 Main Street.</i>
<b>Existing, future &amp;/or NA</b>	<i>Protects existing and future development.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>This action prevents building damage during hurricanes and significant wind events. Losses avoided are estimated to be between \$5,000 and \$25,000 per year.</i>
<b>Cost estimate</b>	<i>\$75,000 total (or, based on a useful life of 20 years for the generator, the annual costs would be about \$4,000 per year)</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Yes, this will be cost effective. Benefits are estimated to be \$5,000 and 25,000 per year and costs are estimated to be \$4,000 per year.</i>
<b>Technical</b>	<i>Action is feasible.</i>
<b>Political</b>	<i>There is overall public support in Lake Como for this project.</i>
<b>Legal</b>	<i>Yes, authorized by Governing Body.</i>
<b>Environmental</b>	<i>There are no environmental impacts. This is a planning mechanism.</i>
<b>Social</b>	<i>This project will affect the entire population.</i>
<b>Administrative capability</b>	<i>Borough personnel would work with contractors to implement this action.</i>
<b>Local champion</b>	<i>The Governing Body, administrative, and Office of Emergency Management.</i>
<b>Other community objectives</b>	<i>This action does not further other projects, however has an overall positive effect for the community.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>Office of Emergency Management and Administration.</i>
<b>Responsible party</b>	<i>Office of Emergency Management and Administration.</i>
<b>Potential funding sources</b>	<i>Hazard Mitigation Grant; local funding.</i>
<b>Time line</b>	<i>Completion for entire project is 1 year.</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>This item is a new action item which was added during this cycle and was not part of the last plan update.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Little Silver</i>
Community action number	<i>Borough of Little Silver - Action No. 1</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Hydrologic Hazards - Flooding (during severe rainstorms, thunderstorms, hurricanes, tropical storms, and nor'easters)</i>
Risk finding	<i>Streams and ditches, do not convey stormwater runoff as efficiently as they should; this results in flooding in several areas.</i>
Action category	<i>Structure/ Infrastructure</i>
Action type	<i>Drainage Improvements</i>
Action description	<i>The Borough improves their stormwater system every year with their yearly roadway program, updating drainage inlets to eco grates. Develop mitigation steps to reduce damage and losses due to flooding through control of stormwater runoff and more efficient drainage and discharge to three major streams. Stream cleaning reduces sediment/ debris within watershed providing better overall volume/ flow throughout</i>
Existing, future &/or NA	<i>Existing and future development</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Annual flood losses in Little Silver are typically on the order of \$100,000 to \$250,000. We estimate the proposed project could save about \$250,000 per year in flood losses.</i>
Cost estimate	<i>\$50,000 per year for annually road program, update drainage inlets to eco grates.</i>
Cost effectiveness (i.e., benefit/cost)	<i>We expect that this will be cost effective because losses avoided are estimated to be roughly \$250,000 while the costs are less (\$50,000 per year)</i>
Technical	<i>Technically feasible. Will help remove stormwater runoff more effectively and Eco</i>
Political	<i>No apparent political issues.</i>
Legal	<i>No apparent legal issues.</i>
Environmental	<i>No adverse environmental effects. Will help improve flood control and debris within watershed.</i>
Social	<i>Borough of Little Silver residents.</i>
Administrative capability	<i>Need at least 3 people to administer (After technical assistance from the State)</i>
Local champion	<i>Residents of Little Silver, Borough Environmental Commission</i>
Other community objectives	<i>Municipal Stormwater Management Regulation Program</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Municipal Stormwater Management Regulation Program</i>
Responsible party	<i>Borough - Engineer</i>
Potential funding sources	<i>HMGP, RFC, SRL and FMA. For 25% local match, in-kind services</i>
Time line	<i>Ongoing as funds are available</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Ongoing action carried forward from 2009 Plan</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Little Silver</i>
<b>Community action number</b>	<i>Borough of Little Silver - Action No. 2</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, storm surge, hurricane &amp; tropical storm, nor'easter</i>
<b>Risk finding</b>	<i>Approximately, 98 single family homes are within the 100 year flood zone throughout the Borough. During extreme storm events these properties can experience flooding and property damage.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure/ Infrastructure</i>
<b>Action type</b>	<i>Single Family Homes - Raising of Structure</i>
<b>Action description</b>	<i>The Borough is proposing mitigation through house elevation for homes within the 100 year flood zone.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Reduces tidal storm surge damage and provides protection to waterfront homes within the 100 year flood zone. Will provide protection for residents and waterfront homes within the 100 year flood area. Average median home within the Borough is \$595, 100.00 from 2010 census. Losses avoided by this project are estimated to be roughly \$55,939,400.</i>
<b>Cost estimate</b>	<i>\$24,990,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Will provide protection for residents and waterfront homes within the 100 year flood area. Average median home within the Borough is \$595, 100.00 from 2010 census. This project is likely to be cost effective, with benefits on the order of \$55,939,400 and costs of \$24,990,000.</i>
<b>Technical</b>	<i>Technically feasible. Will help prevent flood damage to residential homes.</i>
<b>Political</b>	<i>No apparent political issues.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>No adverse environmental effects. Will help improve flood loss and mitigate debris entering into the river.</i>
<b>Social</b>	<i>Will help residents along shoreline area of the Borough within the 100 year flood zone.</i>
<b>Administrative capability</b>	<i>Need at least 3 people to administer (after technical assistance from the State)</i>
<b>Local champion</b>	<i>Residents along the shoreline.</i>
<b>Other community objectives</b>	<i>Flood Damage Prevention Ordinance</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Flood Damage Prevention Ordinance</i>
<b>Responsible party</b>	<i>Borough - Engineer</i>
<b>Potential funding sources</b>	<i>HMGP, RFC, SRL and FMA. For 25% local match, in-kind services</i>
<b>Time line</b>	<i>2 year</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New Action Proposed in 2014</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Little Silver</i>
Community action number	<i>Borough of Little Silver - Action No. 3</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Storm Surge (hurricanes, tropical storms, and nor'easters)</i>
Risk finding	<i>More than 50 percent of Little Silver lies within mapped storm surge hazard areas (tidal waters surging up the Shrewsbury River). New age restricted housing is within the mapped storm surge hazard area. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
Action category	<i>Structure/ Infrastructure</i>
Action type	<i>Outfall Drainage Improvements</i>
Action description	<i>The Borough is proposing mitigation of each drainage outfall pipe located within the Borough. The installation of a Tideflex valve is proposed to mitigate storm surge within the Borough existing storm drain system to help protect during a flooding event.</i>
Existing, future &/or NA	<i>Existing and future development.</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Annual flood losses in Little Silver are typically on the order of \$100,000 to \$250,000. We estimate the proposed project could save about \$250,000 per year in flood losses.</i>
Cost estimate	<i>\$200,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>We expect that this will be cost effective because losses avoided are estimated to be roughly \$250,000 while the costs are less \$200,000</i>
Technical	<i>Technically feasible. Will help prevent flood damage to residential homes.</i>
Political	<i>No apparent political issues.</i>
Legal	<i>No apparent legal issues.</i>
Environmental	<i>No adverse environmental effects.</i>
Social	<i>Will help residents along shoreline area of the borough and within the lowline areas of the drainage system.</i>
Administrative capability	<i>Need at least 3 people to administer (after technical assistance from the State)</i>
Local champion	<i>Residents of the Borough</i>
Other community objectives	<i>Flood Damage Prevention Ordinance</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Flood Damage Prevention Ordinance</i>
Responsible party	<i>Borough - Engineer</i>
Potential funding sources	<i>HMGP, RFC, SRL and FMA. For 25% local match, in-kind services</i>
Time line	<i>Ongoing as funds are available</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Little Silver</i>
<b>Community action number</b>	<i>Borough of Little Silver - Action No. 2</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Storm Surge (hurricanes, tropical storms, and nor'easters)</i>
<b>Risk finding</b>	<i>More than 50 percent of Little Silver lies within mapped storm surge hazard areas (tidal waters surging up the Shrewsbury River). New age restricted housing is within the mapped storm surge hazard area. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Action category</b>	<i>Regional Dyke Structure/ Infrastructure</i>
<b>Action type</b>	<i>Regional Drainage Improvements</i>
<b>Action description</b>	<i>The Borough is proposing a regional mitigation dyke structure along the Sandy Hook Inlet into the Navesink and Shrewsbury River. The installation of a dyke structure is proposed to mitigate storm surge within the Borough existing storm drain system to help protect during a flooding event.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future development.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Annual flood losses in Little Silver are typically on the order of \$100,000 to \$250,000. We estimate the proposed project could save about \$250,000 per year in flood losses.</i>
<b>Cost estimate</b>	<i>\$30 Million</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>We expect that this will be cost effective because losses avoided are estimated to be billions of dollars for the surrounding municipalities</i>
<b>Technical</b>	<i>Technically feasible. Will help prevent flood damage to residential homes.</i>
<b>Political</b>	<i>Inter local agreements with surrounding municipalities</i>
<b>Legal</b>	<i>Inter local agreements with surrounding municipalities</i>
<b>Environmental</b>	<i>No adverse environmental effects. Design must confirm no additional flooding along coast.</i>
<b>Social</b>	<i>Will help residents along shoreline area of the region and within the lowline areas of the drainage system.</i>
<b>Administrative capability</b>	<i>Need at least 3 people to administer (after technical assistance from the State)</i>
<b>Local champion</b>	<i>Residents and Municipalities surrounding the Navesink and Shrewsbury</i>
<b>Other community objectives</b>	<i>Flood Damage Prevention Ordinance</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Flood Damage Prevention Ordinance</i>
<b>Responsible party</b>	<i>County Engineer and Inter - municipal agreements</i>
<b>Potential funding sources</b>	<i>HMGP, RFC, SRL and FMA. For 25% local match, in-kind services</i>
<b>Time line</b>	<i>Ongoing as funds are available</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Village of Loch Arbour</i>
<b>Community action number</b>	<i>Village of Loch Arbour - Action No. 1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Surge, Hurricane, Tropical Storm, Nor'easter</i>
<b>Risk finding</b>	<i>Over 50% of the Village of Loch Arbour is within mapped storm surge hazard areas. Deal Lake continues to be a major source of flooding in the Village. During severe storms, water drains into the Lake but outfall design constraints prevent the water from making its way into the ocean before water overflows the banks and floods back into surrounding areas, during emergencies. In order to respond quicker to significant rain events and prevent flooding, the open and closing mechanism of the flume gates should be automated. During significant storm events when tidal surges occur, it becomes necessary to close the gates quickly to minimize ocean water infiltrating into the lake. The normal level of Deal Lake is only 3.2 feet above mean high tide.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure/ Infrastructure</i>
<b>Action type</b>	<i>Drainage Improvements - Automated Flume Gate</i>
<b>Action description</b>	<i>Deal Lake Commission is actively in the process of design for the development of automatic flume gate.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future development surrounding Deal Lake</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Reduces tidal storm surge and provides protection to waterfront homes within watershed area. Average annual losses estimated in excess of \$60,000; plus unquantifiable life safety benefits associated with maintaining emergency services for the residents within the five municipalities surrounding the watershed.</i>
<b>Cost estimate</b>	<i>\$60,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Benefits estimated in excess of \$60,000 plus unquantifiable life safety benefits associated with maintaining emergency services for the residents within the five municipalities surrounding the watershed.</i>
<b>Technical</b>	<i>Technically feasible. Will help to control flooding</i>
<b>Political</b>	<i>Multiple municipal agencies involved with Deal Lake Commission. Municipalities include Allenhurst, City of Asbury Park, Borough of Deal, Borough of Interlaken, Neptune Township, Ocean Township and Village of Loch Arbour.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>No adverse environmental effects. Will help improve flood control.</i>
<b>Social</b>	<i>Will help residents along shoreline area of the Village and within the Deal Watershed, Deal Lake Commission</i>
<b>Administrative capability</b>	<i>Need at least 3 people to administer ( after technical assistance from the State)</i>
<b>Local champion</b>	<i>Deal Lake Commission, Friends of Deal Lake, Residents within Village and within Deal Watershed</i>
<b>Other community objectives</b>	<i>Regional Stormwater Management Plan for Deal Lake Watershed, Municipal Stormwater Management Regulation Program, Flood Damage Prevention Ordinance.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Flood Damage Prevention Ordinance</i>
<b>Responsible party</b>	<i>Deal Lake Commission - Engineer</i>
<b>Potential funding sources</b>	<i>HMGP, RFC, SRL and FMA. For 25% local match, in-kind services</i>
<b>Time line</b>	<i>1 year</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Ongoing action from 2009 Plan</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Village of Loch Arbour</i>
Community action number	<i>Village of Loch Arbour - Action No. 2</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Surge , Hurricane, Tropical Storm, Nor'easter</i>
Risk finding	<i>Sedimentation and debris in Deal Lake and its tributaries impedes flood flows.</i>
<b>Describing the Action</b>	
Action category	<i>Structure/ Infrastructure</i>
Action type	<i>Drainage Improvements - Treatment Devices</i>
Action description	<i>Reduce the possibility of flood damage by conducting regular stream maintenance and clearing sediment from Deal Lake and surrounding streams in the watershed. Deal Lake Commission is actively installing manufactured treatment devices around key outfall locations to aid in the elimination of trash and debris.</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Reduces sediment and debris within watershed providing better overall volume/ flow throughout the lake. Will eliminate debris and sediment within the lake and watershed allowing proper flow fro stormwater runoff. Average annual losses estimated in excess of \$125,000; plus unquantifiable life safety benefits associated with maintaining emergency services for residents within the five municipalities surrounding the watershed.</i>
Cost estimate	<i>\$125,000.00 per unit there is currently 167 outfalls within the Deal Watershed. Larger outfalls will be upgraded to address large sediment deposits occuring in the lake.</i>
Cost effectiveness (i.e., benefit/cost)	<i>Will eliminate debris and sediment within the lake and watershed allowing proper flow for stormwater runoff. This project is likely to be cost effective, with benefits that exceed the order of \$125,000</i>
Technical	<i>Technically feasbile. Will help to eliminate debris from blocking and displacement of stormwater runoff</i>
Political	<i>No apparent political issues.</i>
Legal	<i>No apparent legal issues.</i>
Environmental	<i>No adverse environmental effects. Will help improve flood control and pollutants within the watershed.</i>
Social	<i>Will help residents along shoreline area of the Village, Deal Lake Commission</i>
Administrative capability	<i>Need at least 3 people to administer ( after technical assistance from the State)</i>
Local champion	<i>Deal Lake Commission, Friends of Deal Lake, Residents within Village and along shoreline</i>
Other community objectives	<i>Regional Stormwter Management Plan for Deal Lake Watershed, Municipal Stormwater Management Regulation Program.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Municipal Stormwater Management Regulation Program</i>
Responsible party	<i>Deal Lake Commission - Engineer</i>
Potential funding sources	<i>HMGP, RFC, SRL and FMA. For 25% local match, in-kind services</i>
Time line	<i>Ongoing as funds are available</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Ongoing action from 2009 Plan</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Village of Loch Arbour</i>
<b>Community action number</b>	<i>Village of Loch Arbour - Action No. 3</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood Hazards</i>
<b>Risk finding</b>	<i>Presently there are no storm water retention basins with the ability to correctly control the rate, amount or quality of runoff generated from any of the State of NJ Highways that transverse the Deal Lake watershed. As a result, waterfront properties within watershed flood regularly. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure/ Infrastructure</i>
<b>Action type</b>	<i>Drainage Improvements - Regional Basin</i>
<b>Action description</b>	<i>Lake Commission is proposing: (a) a study to research the possibility of building several stormwater basins on DOT land; and (b) construction of stormwater basins.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Reduces flooding for residents with waterfront properties within the watershed and provides for more efficient stormwater runoff/ control. Provides better overall storage volume for the watershed. Average annual losses estimated in excess of \$1.25 million; plus unquantifiable life safety benefits associated with maintaining emergency services for the residents within the five municipalities surrounding the watershed.</i>
<b>Cost estimate</b>	<i>\$1,250,000 (\$50,000 for the study and roughly \$1,200,000 for the basins themselves)</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Benefits estimated in excess of \$1,250,000, plus unquantifiable life safety benefits associated with maintaining emergency services for the residents within the five municipalities surrounding the watershed.</i>
<b>Technical</b>	<i>Technically feasible. Will help control flooding and stormwater runoff.</i>
<b>Political</b>	<i>Mutliple municipal agencies involved with Deal Lake Commission. Municipalities include Allenhurst, City of Asbury Park, Borough of Deal, Borough of Interlaken, Neptune Township, Ocean Township and Village of Loch Arbour</i>
<b>Legal</b>	<i>Obtain land grants and approval from NJDOT to properly construct basin.</i>
<b>Environmental</b>	<i>No adverse environmental effects. Will help improve flood control and pollutants within the watershed.</i>
<b>Social</b>	<i>Does not adversely affect any particular social group.</i>
<b>Administrative capability</b>	<i>Need at least 3 people to administer ( after technical assistance from the State)</i>
<b>Local champion</b>	<i>Deal Lake Commission, Friends of Deal Lake, Residents within Deal Watershed</i>
<b>Other community objectives</b>	<i>Regional Stormwater Management Plan for Deal Lake Watershed, Municipal Stormwater Management Regulation Program.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>Flood Damage Prevention Ordinance</i>
<b>Responsible party</b>	<i>Deal Lake Commission - Engineer, Environmental Consultant and Attorney</i>
<b>Potential funding sources</b>	<i>HMGP, RFC, SRL and FMA. For 25% local match, in-kind services</i>
<b>Time line</b>	<i>2 years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Ongoing action from 2009 Plan.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Village of Loch Arbour</i>
<b>Community action number</b>	<i>Village of Loch Arbour - Action No. 2</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood Hazards (Flooding, Storm Surge, Hurricane, Nor'easter, Tropical Storms)</i>
<b>Risk finding</b>	<i>During Super Storm Sandy the beachfront was eroded away into the surf. The Shoreline was left exposed causing extensive property and roadway infrastructure damage limiting the Village's ability to provide critical emergency services. Ocean Avenue was undermined in the vicinity of an ocean front tract at its border with Asbury Park. A private beach club on this tract was heavily damaged. The tract is bounded on one side by a Village-owned beach club, and on the south by a parcel that is being considered for open space acquisition. The Village views this property as an ideal location for a shore protection project; it is where the worst flooding of Superstorm Sandy occurred. The ocean came over land into Deal Lake and undermined Ocean Avenue in the vicinity of this property.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure/ Infrastructure</i>
<b>Action type</b>	<i>Acquisition of at-risk properties and Shoreline Protection</i>
<b>Action description</b>	<i>The scope of the project is to carry out property acquisition and construct a sand dune along the entire beach frontage.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Reduces flooding along shoreline and will provide protection for residential structure along beach front. Will provide protection for residents and approximately 29 beach front properties. The average single family house price within the Village is approximately \$959,000. Losses avoided are estimated to be in excess of \$3,000,000</i>
<b>Cost estimate</b>	<i>\$3,000,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost-effective, with benefits that exceed the order of \$3,000,000.</i>
<b>Technical</b>	<i>Technically feasible. Will help to eliminate coastal flooding.</i>
<b>Political</b>	<i>No apparent political issues.</i>
<b>Legal</b>	<i>Property Acquisition: Block 8 Lot 1; Block 7 Lots 1 &amp; 2</i>
<b>Environmental</b>	<i>No adverse environmental effects. Will help improve flood control and flooding within Coastal Area</i>
<b>Social</b>	<i>Will help residents along shoreline area of the Village</i>
<b>Administrative capability</b>	<i>Need at least 3 people to administer ( after technical assistance from the State)</i>
<b>Local champion</b>	<i>Deal Lake Commission, Friends of Deal Lake, Residents within Village</i>
<b>Other community objectives</b>	<i>Flood Damage Prevention Ordinance</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Flood Damage Prevention Ordinance</i>
<b>Responsible party</b>	<i>Village Engineer</i>
<b>Potential funding sources</b>	<i>HMGP, RFC, SRL and FMA. For 25% local match, in-kind services</i>
<b>Time line</b>	<i>2 years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action proposed in 2014</i>

## Action Worksheet

<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Village of Loch Arbour</i>
<b>Community action number</b>	<i>Village of Loch Arbour - Action No. 5</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood Hazards (Flooding, Storm Surge, Hurricane, Nor'easter, Tropical Storms)</i>
<b>Risk finding</b>	<i>Over 50% of the Village of Loch Arbour is within mapped storm surge hazard areas. Deal Lake continues to be a major source of flooding in the Village. During severe storms, water surges into the Lake but outfall design constraints prevent the water from making its way into the ocean before water overflows the banks and floods back into surrounding areas. In order to respond quicker to significant tidal events and prevent flooding, a tidal flood gate with the ability to open and close with automation mechanism should be developed. During significant storm events when tidal surges occur, it becomes necessary to close the gates quickly to minimize ocean water infiltrating into the lake. The normal level of Deal Lake is only 3.2 feet above mean high tide.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure/ Infrastructure</i>
<b>Action type</b>	<i>Drainage Improvements - Automated Tide Gate</i>
<b>Action description</b>	<i>Deal Lake Commission is actively in the process of design for the development of automatic <b>Tide Gate</b>. The tide gate will be inserted within the 5' x 10' flume.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing outfall structure and future development surrounding Deal Lake</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Reduces tidal storm surge and provides protection to waterfront homes within watershed area. The average single family house price within the Village is approximately \$959,000. Losses avoided are estimated to be in excess of \$500,000.</i>
<b>Cost estimate</b>	<i>\$500,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost-effective, with benefits that exceed the order of \$500,000.</i>
<b>Technical</b>	<i>Technically feasible. Will help to control flooding</i>
<b>Political</b>	<i>Multiple municipal agencies involved with Deal Lake Commission. Municipalities include Allenhurst, City of Asbury Park, Borough of Deal, Borough of Interlaken, Neptune Township, Ocean Township and Village of Loch Arbour.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>No adverse environmental effects. Will help improve flood control.</i>
<b>Social</b>	<i>Will help residents along shoreline area of the Village and within the Deal Watershed; Deal Lake Commission</i>
<b>Administrative capability</b>	<i>Need at least 3 people to administer ( after technical assistance from the State)</i>
<b>Local champion</b>	<i>Deal Lake Commission, Friends of Deal Lake, Residents within Village and within Deal Watershed</i>
<b>Other community objectives</b>	<i>Regional Stormwater Management Plan for Deal Lake Watershed, Municipal Stormwater Management Regulation Program, Flood Damage Prevention Ordinance.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Flood Damage Prevention Ordinance</i>
<b>Responsible party</b>	<i>Deal Lake Commission - Engineer</i>
<b>Potential funding sources</b>	<i>HMGP, RFC, SRL and FMA. For 25% local match, in-kind services</i>
<b>Time line</b>	<i>1 year</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action proposed in 2014</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>City of Long Branch</i>
Community action number	<i>1</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, storm surge, hurricanes, tropical storms, nor'easters, severe storms, erosion, wave action</i>
Risk finding	<i>Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
Action category	<i>Local Planning and Regulations</i>
Action type	<i>Update of Hazard Zoning Ordinances</i>
Action description	<i>Updating of local ordinance's to comply with FEMA A's new Preliminaries and possibly acquire reductions for residents in flood insurance premiums.</i>
Existing, future &/or NA	<i>Both</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Extremely Effective; benefits are estimated to be relatively high as compared to costs as buildings are raised up above the base flood elevation, with cost savings during each future flood events as well as cost savings in terms of flood insurance premiums paid.</i>
Cost estimate	<i>Unknown; costs are estimated to be relatively low in terms of staff time and associated budget needed to revise the ordinance</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost-effective, with relatively low costs and potentially very high benefits.</i>
Technical	<i>Yes</i>
Political	<i>Yes</i>
Legal	<i>Yes</i>
Environmental	<i>Yes</i>
Social	<i>Unaffected</i>
Administrative capability	<i>Yes</i>
Local champion	<i>No</i>
Other community objectives	<i>Yes</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Codes</i>
Responsible party	<i>Mayor and Council</i>
Potential funding sources	<i>Local Budget</i>
Time line	<i>3-5 Years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Action has been carried forward and the City has updated several ordinances in response to recent events. Further updates will be needed in the future.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>City of Long Branch</i>
Community action number	2
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, storm surge during hurricanes, tropical storms, nor'easters, severe storms</i>
Risk finding	<i>Various locations throughout the City flood when local drainage cannot exit the system due to submerged outfalls and associated backflow. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
Action category	<i>Structural Protection</i>
Action type	<i>Improve stormwater drainage system</i>
Action description	<i>Installation of improved drainage and storm water pipe to control flood waters and increase strategic locations to control flow</i>
Existing, future &/or NA	<i>Both</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Extremely Effective; we estimate that losses avoided as a result of this project could be about \$ 3,000,000.00 per year.</i>
Cost estimate	<i>Planning - \$400,000 Materials - \$3,000,000.00 Maintenance - \$5,000.00 Given the estimated useful life of 30 years, this represents an annual cost of about \$ 113,500.00 per year.</i>
Cost effectiveness (i.e., benefit/cost)	<i>Unknown. We estimate that this project would be cost effective, with annual benefits of \$3,000,000.00 per year and annual costs of only \$113,500.00 per year.</i>
Technical	<i>Yes</i>
Political	<i>Yes</i>
Legal	<i>Yes</i>
Environmental	<i>Yes</i>
Social	<i>Unaffected</i>
Administrative capability	<i>Yes</i>
Local champion	<i>Public Works Director</i>
Other community objectives	<i>Yes</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Codes</i>
Responsible party	<i>Mayor and Council</i>
Potential funding sources	<i>Local Budget</i>
Time line	<i>3-5 Years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Action has been carried forward from 2009 plan and was not completed to funding.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>City of Long Branch</i>
Community action number	3
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, storm surge during hurricanes, tropical storms, nor'easters, severe storms</i>
Risk finding	<i>Areas surrounding City Hall from Broadway to Morris Avenue flood during periods of excess rainfall. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
Action category	<i>Structural Protection</i>
Action type	<i>Improvements to stormwater drainage system</i>
Action description	<i>Installation of improved drainage and storm water pipe to control flood waters and increase strategic locations to control flow.</i>
Existing, future &/or NA	<i>Both</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Extremely Effective; we estimate that losses avoided as a result of this project could be about \$250,000.00 per year.</i>
Cost estimate	<i>Planning - \$50,000 Materials - \$300,000.00 Maintenance - \$1,500.00 Given the estimated useful life of 50 years, this represents an annual cost of about \$ 7,030.00 per year.</i>
Cost effectiveness (i.e., benefit/cost)	<i>Unknown. We estimate that this project would be cost effective, with annual benefits of \$ 250,000.00 per year and annual costs of only \$ 7,030.00 per year.</i>
Technical	<i>Yes</i>
Political	<i>Yes</i>
Legal	<i>Yes</i>
Environmental	<i>Yes</i>
Social	<i>Unaffected</i>
Administrative capability	<i>Yes</i>
Local champion	<i>Public Works Director</i>
Other community objectives	<i>Yes</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Codes</i>
Responsible party	<i>Mayor and Council</i>
Potential funding sources	<i>Local Budget</i>
Time line	<i>3-5 Years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Action has been carried forward from 2009 plan and was not completed to funding.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>City of Long Branch</i>
Community action number	4
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, storm surge during hurricanes, tropical storms, nor'easters, severe storms</i>
Risk finding	<i>Flooding/surge has historically been an issue in and around Lake Takanasee during severe storm. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
Action category	<i>Structural Protection</i>
Action type	<i>Stormwater drainage system improvements</i>
Action description	<i>Installation of improved drainage system and storm water control devices to regulate flood waters and increase strategic locations to control flow.</i>
Existing, future &/or NA	<i>Both</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Extremely Effective; we estimate that losses avoided as a result of this project could be about \$1,750,000.00 per year.</i>
Cost estimate	<i>Planning - \$500,000 Materials - \$15,000,000.00 Maintenance - \$225,000.00 Given the estimated useful life of 50 years, this represents an annual cost of about \$314,000.00 per year.</i>
Cost effectiveness (i.e., benefit/cost)	<i>Unknown. We estimate that this project would be cost effective, with annual benefits of \$1,750,000.00 per year and annual costs of only \$314,000.00 per year.</i>
Technical	<i>Yes</i>
Political	<i>Yes</i>
Legal	<i>Yes</i>
Environmental	<i>Yes</i>
\	<i>Unaffected</i>
Administrative capability	<i>Yes</i>
Local champion	<i>Public Works Director</i>
Other community objectives	<i>Yes</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Codes</i>
Responsible party	<i>Mayor and Council</i>
Potential funding sources	<i>Local Budget</i>
Time line	<i>3-5 Years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Action has been carried forward from 2009 plan and was not completed to funding.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>City of Long Branch</i>
Community action number	5
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, storm surge during hurricanes, tropical storms, nor'easters, severe storms</i>
Risk finding	<i>Flooding/surge has historically been an issue in and around Elberon Trestle during severe storms. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
Action category	<i>Structural Protection</i>
Action type	<i>Stormwater drainage system improvements</i>
Action description	<i>Installation of improved drainage and storm water pipe to control flood waters and increase strategic locations to control flow. Advanced warning systems to alert motorists of the conditions located ahead.</i>
Existing, future &/or NA	<i>Both</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Extremely Effective; we estimate that losses avoided as a result of this project could be about \$500,000.00 per year.</i>
Cost estimate	<i>Planning - \$150,000 Materials - \$500,000.00 Maintenance - \$2,500.00 Given the estimated useful life of 50 years, this represents an annual cost of about \$13,050 per year.</i>
Cost effectiveness (i.e., benefit/cost)	<i>Unknown. We estimate that this project would be cost effective, with annual benefits of \$500,000.00 per year and annual costs of only \$13,050.00 per year.</i>
Technical	<i>Yes</i>
Political	<i>Yes</i>
Legal	<i>Yes</i>
Environmental	<i>Yes</i>
Social	<i>Unaffected</i>
Administrative capability	<i>Yes</i>
Local champion	<i>Public Works Director</i>
Other community objectives	<i>Yes</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Codes</i>
Responsible party	<i>Mayor and Council</i>
Potential funding sources	<i>Local Budget</i>
Time line	<i>3-5 Years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Action has been carried forward from 2009 plan and was not completed to funding.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>City of Long Branch</i>
Community action number	6
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>- Flooding, storm surge during hurricanes, tropical storms, nor'easters, severe storms</i>
Risk finding	<i>The northern and western areas of the city are susceptible to flood/surge. Most of North Long Branch was flooded during Hurricane Sandy, from both coastal flooding and backwater flooding from the Shrewsbury River and its tributaries. There was significant damage to public and private property and infrastructure. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
Action category	<i>Structural Protection</i>
Action type	<i>Improve stormwater drainage system</i>
Action description	<i>Installation of duckbill check valves to control flood waters and increase strategic locations to control flow.</i>
Existing, future &/or NA	<i>Both</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Extremely Effective; we estimate that losses avoided as a result of this project could be about \$500,000.00 per year.</i>
Cost estimate	<i>Planning - \$50,000 Materials - \$200,000.00 Maintenance - \$5,00.00 Given the estimated useful life of 35years, this represents an annual cost of about \$7,300.00 per year.</i>
Cost effectiveness (i.e., benefit/cost)	<i>Unknown. We estimate that this project would be cost effective, with annual benefits of \$500,000.00 per year and annual costs of only \$7,300.00 per year.</i>
Technical	<i>Yes</i>
Political	<i>Yes</i>
Legal	<i>Yes</i>
Environmental	<i>Yes</i>
Social	<i>Unaffected</i>
Administrative capability	<i>Yes</i>
Local champion	<i>Public Works Director</i>
Other community objectives	<i>Yes</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Codes</i>
Responsible party	<i>Mayor and Council</i>
Potential funding sources	<i>Local Budget</i>
Time line	<i>3-5 Years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>This is a new action that has been created by a change in conditions from Hurricane Sandy. This project was also submitted as a 2014 HMGP Project.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>City of Long Branch</i>
<b>Community action number</b>	7
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding, storm surge during hurricanes, tropical storms, nor'easters, severe storms</i>
<b>Risk finding</b>	<i>Areas in and around Ms nahassett Creek Park Complex are susceptible to flood/surge. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural Protection &amp; Natural Resources Protection</i>
<b>Action type</b>	<i>Bulkheads</i>
<b>Action description</b>	<i>Improvements to existing Bay Avenue bulkhead that has proven to be inadequate after the changes in conditions following Hurricane Sandy.</i>
<b>Existing, future &amp;/or NA</b>	<i>Both</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Extremely Effective; we estimate that losses avoided as a result of this project could be about \$250,000.00 per year.</i>
<b>Cost estimate</b>	<i>Planning - \$20,000 Materials - \$50,000.00 Maintenance - \$5,00.00 Given the estimated useful life of 50 years, this represents an annual cost of about \$ 1,500.00 per year.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Unknown. We estimate that this project would be cost effective, with annual benefits of \$ 250,000.00 per year and annual costs of only \$ 1,500.00 per year.</i>
<b>Technical</b>	<i>Yes</i>
<b>Political</b>	<i>Yes</i>
<b>Legal</b>	<i>Yes</i>
<b>Environmental</b>	<i>Yes</i>
<b>Social</b>	<i>Unaffected</i>
<b>Administrative capability</b>	<i>Yes</i>
<b>Local champion</b>	<i>Public Works Director</i>
<b>Other community objectives</b>	<i>Yes</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Codes</i>
<b>Responsible party</b>	<i>Mayor and Council</i>
<b>Potential funding sources</b>	<i>Local Budget</i>
<b>Time line</b>	<i>3-5 Years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>This is a new action that has been created by a change in conditions from Hurricane Sandy. This project was also submitted as a 2014 HMGP Project.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>City of Long Branch</i>
<b>Community action number</b>	8
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Storm Surge, flooding, hurricanes, tropical storms and nor'easters</i>
<b>Risk finding</b>	<i>Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure Projects</i>
<b>Action type</b>	<i>Project Structures</i>
<b>Action description</b>	<i>Project will consist of the elevation of floodprone Residential Structures that are below the approved base flood elevations approximately 150 homes.</i>
<b>Existing, future &amp;/or NA</b>	<i>Addresses existing structures</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Losses avoided by this project are estimated to be \$250,000 per property that is elevated.</i>
<b>Cost estimate</b>	<i>The cost of the project is estimated to be \$75,000 to \$125,000 depending on size and current foundation of home.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Average cost of residential homes in this area are in the \$1-3 million range. Previous flooding has caused millions in damages. This project is likely to be cost effective, with benefits estimated to be about \$250,000 per property and costs of only \$75k-\$125k per property.</i>
<b>Technical</b>	<i>Elevation of homes is Technically feasible.</i>
<b>Political</b>	<i>All residents realize the need to prevent flooding in this area. No group is opposed to this action. Our political leadership supports this type project.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>No environmental impacts are anticipated as a result of elevating the homes.</i>
<b>Social</b>	<i>Does not adversely affect any particular social group.</i>
<b>Administrative capability</b>	<i>City of Long Branch Office of Emergency Management will manage this project.</i>
<b>Local champion</b>	<i>Charles F. Shirley Jr. , Deputy Coordinator</i>
<b>Other community objectives</b>	<i>None</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>None required.</i>
<b>Responsible party</b>	<i>City of Long Branch Emergency Management</i>
<b>Potential funding sources</b>	<i>FEMA hazard mitigation grant funding streams (i.e., HMGP)</i>
<b>Time line</b>	<i>ASAP</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New project</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Long Branch</i>
<b>Community action number</b>	<i>9</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Storm surge, flooding, hurricanes, tropical storms, nor'easters, wave action, winter storms
<b>Risk finding</b>	Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	Protect Structures
<b>Action description</b>	Elevation and/or Acquisition of Floodprone Residential Structures, with particular focus on those in our community that are on FEMA's Repetitive Loss List and Severe Repetitive Loss List. New Jersey is committed to continuing the reduction of RL and SRL properties in the State; in turn, they have assigned a high priority to mitigating SRL and RL properties in the State Hazard Mitigation Plan. We are committed to supporting these projects as interested homeowners come forward and will support such homeowners, despite the loss in tax revenue, because we recognize the importance of making our community more disaster-resistant and reducing the financial burden of repetitive flooding in our community.
<b>Existing, future &amp;/or NA</b>	Existing
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Properties on FEMA's RL list have already incurred flood-related damage on two occasions, in which the cost of the repair, on average, equaled or exceeded 25% of the market value of the structure at the time of each such flood event. Properties on FEMA's SRL list have already incurred flood related damage (i) For which four or more separate claims payments have been made under flood insurance coverage with the amount of each such claim exceeding \$5,000, and with the cumulative amount of such claims payments exceeding \$20,000; or (ii) For which at least two separate claims payments have been made under such coverage, with the cumulative amount of such claims exceeding the market value of the insured structure. While losses avoided by elevating or acquiring properties on FEMA's RL and SRL lists are unquantifiable until specific interested homeowners come forward, they would meet these criterion by definition, at a minimum.
<b>Cost estimate</b>	Project costs are unquantifiable at this time. They would depend on the particular home(s) in question, and the nature of the project the homeowner is interested in (acquisition, or elevation).
<b>Cost effectiveness (i.e., benefit/cost)</b>	Because our RL and SRL properties have incurred so much damage historically, it is highly probably that mitigating these properties would be cost effective. Specific determinations of cost-effectiveness would be done in the future on a case by case basis as interested homeowners come forward and project details are specified.
<b>Technical</b>	Elevation and acquisition are both technically feasible project types
<b>Political</b>	Our political leadership supports this type of project
<b>Legal</b>	While the municipality does not own the structures in question, we fully support the homeowners in moving forward
<b>Environmental</b>	No environmental impacts are anticipated at this time; this would be confirmed as specific homeowners come forward and their property details are reviewed. It is likely that environmental impacts would be positive, as household hazardous wastes are no longer introduced into floodwaters.
<b>Social</b>	No particular social group in our community is likely to be disproportionately impacted by this project; this would be re-evaluated as particular interested homeowners come forward.
<b>Administrative capability</b>	Our municipality has the administrative capabilities to manage an elevation and/or acquisition project
<b>Local champion</b>	affected homeowners, elected officials
<b>Other community objectives</b>	Improve and protect lifestyles of residents; reduction of costly property damage; resiliency; floodplain management; capital improvements
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	Homeowners; Mayor; Council; Administrator; Engineer; local ordinance; Hazard Mitigation Plan
<b>Responsible party</b>	Administration
<b>Potential funding sources</b>	FEMA hazard mitigation grant funding streams (i.e., HMGP, FMA, etc)
<b>Time line</b>	This is projected to be an ongoing type of activity, with our municipality supporting interested parties as they come forward.
<b>Reporting on Progress</b>	
<b>Action progress status</b>	New action

## Action Worksheet

Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Manalapan</i>
Community action number	<i>1</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, hurricane &amp; tropical storm, nor'easter</i>
Risk finding	<i>Residential structures along Birmingham Drive are located in floodplain of the Pine Brook. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
Action category	<i>Structural Project</i>
Action type	<i>Property Acquisition - Remove existing structures from flood hazard areas</i>
Action description	<i>Purchase properties along the Birmingham Drive for the purposes of removing the dwelling structures which are located in floodplain of the Pine Brook.</i>
Existing, future &/or NA	<i>existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The project will be effective in eliminating damage to flood prone dwelling structures. While the exact losses to each property after each flood event is unknown at this time, we expect that losses avoided would exceed \$3,000 per year.</i>
Cost estimate	<i>\$3,000,000 or \$300,000 per property (assuming a 100 year useful life for acquisition and return of the sites to open space, this is about \$3,000 per year per structure)</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits most likely equal to or in excess of \$3,000 per property per year and costs of only \$3,000 per property per year.</i>
Technical	<i>The project is technically feasible.</i>
Political	<i>The residents and governing body are supportive of the project.</i>
Legal	<i>The community can conduct the project provided there is endorsement from the residents whose properties are to be acquired</i>
Environmental	<i>The project would have a positive environmental impact in that it will eliminate obstructions in a flood hazard area.</i>
Social	<i>The project will improve the quality of life of a specific group of residents along Birmingham Drive whose properties repeatedly flood.</i>
Administrative capability	<i>Township Administration and Engineering are the lead agencies</i>
Local champion	<i>The residents of Birmingham Drive are leading the call for action.</i>
Other community objectives	<i>Open Space Preservation</i>
<b>Implementing the Action</b>	
Priority	<i>High Priority</i>
Local planning mechanism	<i>Open Space and Flood Plain Management</i>
Responsible party	<i>Township Administrator and Engineer</i>
Potential funding sources	<i>HMGP, FEMA Flood Mitigation Grants</i>
Time line	<i>The project will be completed as soon as funding exists</i>
<b>Reporting on Progress</b>	
Action progress status	<i>This is a new action that would be implemented as soon as funding exists</i>

<b>Action Worksheet 1: Risk Assessment Study</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Manasquan Borough</i>
Community action number	<i>Manasquan Borough # 1</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Drought, Earthquakes, Coastal Erosion, Floods, Lightning, Sea Level Rise, Severe Wind, Storm Surge, Tornado, Wildfire, Wave Action</i>
Risk finding	<i>Specific structures, facilities &amp; equipment that are vulnerable to the above hazards have not been identified/quantified.</i>
<b>Describing the Action</b>	
Action category	<i>Planning Mechanism</i>
Action type	<i>Risk Assessment</i>
Action description	<i>Conduct a hazard-specific community-wide risk assessment of all structures, facilities &amp; equipment and identify, map, quantify, and rank vulnerable structures for each of the above hazards. This will include identifying and mapping high hazard areas for each hazard addressed. This will also include inventorying and evaluating existing at-risk housing stock, commercial buildings as well as public facilities &amp; equipment and assessing each structure for vulnerabilities to each of the hazards addressed. This action will be a more detailed presentation and assessment of data from what is in the hazard mitigation plan.</i>
Existing, future &/or NA	<i>Addresses both existing and new structures</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Problem identification is key to implementation of our mitigation actions. This action will enable the Borough to identify most at-risk structures and implement mitigation actions efficiently &amp; effectively. Benefits are difficult to quantify, but expected to be quite high in relation to estimated project costs.</i>
Cost estimate	<i>150000 (low, in relation to benefits).</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is expected to be cost-effective, with benefits outweighing costs. Mitigation actions cannot be implemented without first identifying what structures are vulnerable. Having a risk-based ranking will enable the most efficient use of mitigation funds. This is a low-cost action that can be easily implemented and will save money in the long term through efficient use of mitigation funding.</i>
Technical	<i>Technically feasible, easily implemented.</i>
Political	<i>There is current community support for hazard mitigation planning, however there is community resistance to increased local property taxes.</i>
Legal	<i>There are no apparent legal issues</i>
Environmental	<i>There is no environmental impact</i>
Social	<i>There is no social impact</i>
Administrative capability	<i>The Borough has the administrative capacity to implement this action, however outside funding is required.</i>
Local champion	<i>Office of Emergency Management will advocate for the project</i>
Other community objectives	<i>This action supports the entire hazard mitigation effort within the municipality</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Hazard Mitigation Plan</i>
Responsible party	<i>Office of Emergency Management</i>
Potential funding sources	<i>Hazard Mitigation Planning Grants, Community Resiliency Grants, HMGP funding</i>
Time line	<i>1 year</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New action</i>

## Action Worksheet 2: Establish Local Funding Mechanism

Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Manasquan Borough</i>
Community action number	<i>Manasquan Borough # 4</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>(ALL) Drought, Earthquakes, Extreme Temperatures, Extreme Wind, Coastal Erosion, Floods, Lightning, Sea Level Rise, Severe Winter Storms, Storm Surge, Tornado, Wildfire</i>
Risk finding	<i>Limited local funding available for hazard mitigation activities</i>
<b>Describing the Action</b>	
Action category	<i>Planning Mechanism</i>
Action type	<i>Establish funding mechanism</i>
Action description	<i>Establish a permanent funding mechanism and budget for hazard mitigation planning and mitigation actions</i>
Existing, future &/or NA	<i>N/A</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Having a permanent local funding mechanism will enable the Borough to fully develop, update and monitor implementation of the hazard mitigation plan and certain hazard mitigation actions contained therein. Unquantifiable but presumed high.</i>
Cost estimate	<i>50000 (low, as compared to potential benefits of implemented projects)</i>
Cost effectiveness (i.e., benefit/cost)	<i>Mitigation actions cannot be undertaken without planning and coordination at the local level. Local funding for Hazard Mitigation is essential for the execution of a long-term hazard mitigation strategy. This project is expected to be cost-effective, with its benefits outweighing its costs.</i>
Technical	<i>Technically feasible, easily implemented.</i>
Political	<i>There is current community support for hazard mitigation planning, however there is community resistance to increased local property taxes.</i>
Legal	<i>There are no apparent legal issues</i>
Environmental	<i>There is no environmental impact</i>
Social	<i>There is no social impact</i>
Administrative capability	<i>The community has the personnel available but has not secured a permanent annual funding mechanism</i>
Local champion	<i>Office of Emergency Management will advocate for the project</i>
Other community objectives	<i>This action supports the entire hazard mitigation effort within the municipality</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Hazard Mitigation Plan</i>
Responsible party	<i>Office of Emergency Management</i>
Potential funding sources	<i>unknown</i>
Time line	<i>1 year</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New action</i>

## Action Worksheet 3: Monitor Plan Implementation

Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Manasquan Borough</i>
Community action number	<i>Manasquan Borough # 3</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>(ALL) Drought, Earthquakes, Extreme Temperatures, Extreme Wind, Coastal Erosion, Floods, Lightning, Sea Level Rise, Severe Winter Storms, Storm Surge, Tornado, Wildfire</i>
Risk finding	<i>Hazard mitigation plan must be monitored in order to gauge success and accomplish updates as required</i>
<b>Describing the Action</b>	
Action category	<i>Planning Mechanism</i>
Action type	<i>Monitor Mitigation Plan Implementaion</i>
Action description	<i>Monitor the implementation of the hazard mitigation plan and make updates to the plan as required. This includes forming a plan implementation steering committee to monitor progress on local mitigation actions as well as implementation monitoring schedule and outlining responsibilities.</i>
Existing, future &/or NA	<i>N/A</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Monitoring plan implementation is key to the success of the overall hazard mitigation plan. This action will enable the Borough to ensure that the hazard mitigation plan becomes a living document that is used to steer future mitigation efforts within the municipality. Benefits unquantifiable but presumed high.</i>
Cost estimate	<i>5000 (low cost)</i>
Cost effectiveness (i.e., benefit/cost)	<i>This is a low-cost action that can be easily implemented and will save money in the long term through sustained hazard mitigation efforts. The action is presumed to be cost effective.</i>
Technical	<i>Technically feasible, easily implemented.</i>
Political	<i>There is current community support for hazard mitigation planning, however there is community resistance to increased local property taxes.</i>
Legal	<i>There are no apparent legal issues</i>
Environmental	<i>There is no environmental impact</i>
Social	<i>There is no social impact</i>
Administrative capability	<i>Monitoring and administering the Hazard Mitigation plan costs are considered low, however, administrative capacity of the Borough is exhausted and outside assistance may be required or the work load of administrative staff reduced in order to absorb the additional requirements of this action.</i>
Local champion	<i>Office of Emergency Management will advocate for the project</i>
Other community objectives	<i>This action supports the entire hazard mitigation effort within the municipality</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Hazard Mitigation Plan</i>
Responsible party	<i>Office of Emergency Management</i>
Potential funding sources	<i>Local Hazard Mitigation Program, Hazard Mitigation Planning Grants, Community Resiliency Grants, HMGP funding</i>
Time line	<i>1 year</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New action</i>

## Action Worksheet 4: Program for Public Information

Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Manasquan Borough</i>
Community action number	<i>Manasquan Borough # 4</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>(ALL) Drought, Earthquakes, Extreme Temperatures, Extreme Wind, Coastal Erosion, Floods, Lightning, Sea Level Rise, Severe Winter Storms, Storm Surge, Tornado, Wildfire</i>
Risk finding	<i>The Borough is lacking a comprehensive all-hazards public information program</i>
<b>Describing the Action</b>	
Action category	<i>Public Education</i>
Action type	<i>Implement a Program for Public Information on hazard awareness &amp; mitigation</i>
Action description	<i>Implement a comprehensive program for public information that systematically distributes hazard awareness information as well as actions that citizens can take to mitigate those hazards. The program will also promote household disaster preparedness as well as private mitigation efforts. This program will include the formation of a public information steering committee and will include specific public outreach goals, responsibilities and monitoring.</i>
Existing, future &/or NA	<i>N/A</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Hazard awareness and public education on mitigation actions directly results in lives saved and property damage reduction during natural disasters. Losses avoided are potentially very high.</i>
Cost estimate	<i>5000 (low)</i>
Cost effectiveness (i.e., benefit/cost)	<i>This is a low-cost action that can be easily implemented and will save money in the long term through preparation and mitigation activities undertaken by the community. This project is likely to be cost effective, with benefits in excess of costs.</i>
Technical	<i>Technically feasible, easily implemented.</i>
Political	<i>There is current community support for hazard mitigation planning and public outreach</i>
Legal	<i>There are no apparent legal issues</i>
Environmental	<i>There is no environmental impact</i>
Social	<i>There is no social impact</i>
Administrative capability	<i>The Borough has the administrative capability to implement this action</i>
Local champion	<i>Office of Emergency Management will advocate for the project</i>
Other community objectives	<i>Some of these public education activities may be eligible for credit under the Community Rating System and may lead to lower flood insurance premiums.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Hazard Mitigation Plan, floodplain management plan</i>
Responsible party	<i>Office of Emergency Management</i>
Potential funding sources	<i>Local Hazard Mitigation Program, Hazard Mitigation Planning Grants, Community Resiliency Grants, HMGP funding</i>
Time line	<i>1 year</i>
<b>Reporting on Progress</b>	
Action progress status	<i>This action has been carried forward from last plan. Since the last plan update, the Borough has created specific web pages that outline hazard specific threats and mitigation actions. However, only some threats are addressed. The development of the program for public information will address all hazards and will focus on mitigation actions. This program will have multiple modes of communications, roles and responsibilities defined and will include an annual monitoring checklist. This is expected to take 1 year to complete.</i>

## Action Worksheet 5: Increase Public Warning Capabilities

Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Manasquan Borough</i>
Community action number	<i>Manasquan Borough # 5</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>(ALL) Drought, Earthquakes, Extreme Temperatures, Extreme Wind, Coastal Erosion, Floods, Lightning, Sea Level Rise, Severe Winter Storms, Storm Surge, Tornado, Wildfire</i>
Risk finding	<i>The Borough is lacking critical public warning capabilities</i>
<b>Describing the Action</b>	
Action category	<i>Public Education (Warning)</i>
Action type	<i>Increase public warning capabilities</i>
Action description	<i>Increase public warning capabilities through the implementation of FEMA developed IPAWS alerting, upgrade warning siren coverage, implement a Reverse911 system, upgrade electronic warning sign system coverage, and improve use of web-based programs and social media for public warning.</i>
Existing, future &/or NA	<i>Both</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Timely and accurate public warnings directly result in lives saved and property damage reduction during natural disasters. (Losses avoided unquantifiable, but likely to be very high)</i>
Cost estimate	<i>150000 (These costs are high dollars, but relatively low as compared to expected benefits)</i>
Cost effectiveness (i.e., benefit/cost)	<i>This is critical action that can be directly attributed to lives saved and property damage reduction. Life saving activities strongly outweigh initial costs. The action is likely to be cost effective, with benefits in excess of its costs)</i>
Technical	<i>Technically feasible, easily implemented.</i>
Political	<i>There is current community support for increased public warning capabilities, however there is community resistance to increased local property taxes.</i>
Legal	<i>There are no apparent legal issues</i>
Environmental	<i>There is no environmental impact</i>
Social	<i>There is no social impact</i>
Administrative capability	<i>Currently the Borough does not have the administrative capacity to implement this action and outside assistance and/or funding is required.</i>
Local champion	<i>Office of Emergency Management will advocate for the project</i>
Other community objectives	<i>All of these public warning actions are eligible for credit under the Community Rating System and may lead to lower flood insurance premiums.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Emergency Operations Plan</i>
Responsible party	<i>Office of Emergency Management</i>
Potential funding sources	<i>Emergency Management Performance Grants, Community Resiliency Grants, HMGP funding</i>
Time line	<i>5-years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>This action has been carried forward from last plan. Since the last hazard mitigation plan update, the Borough has added three remote-activated flashing signs used for emergency notifications, added a third outdoor warning siren with voice capability, added a second, back-up public warning activation station, implemented social media (facebook &amp; twitter) that automatically and instantly relays warnings issued from the National Weather Service, and has upgraded the am radio station. Lack of an updated state plan on the emergency alert system has hindered local implementation of IPAWS alerts. Funding has also been an issue for completing the remaining public warning upgrades. It is estimated to take 5-years to complete all upgrades.</i>

<b>Action Worksheet 6: Develop a Drought Emergency Plan</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Manasquan Borough</i>
Community action number	<i>Manasquan Borough # 6</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Drought</i>
Risk finding	<i>The Borough has no plan for dealing with drought emergencies</i>
<b>Describing the Action</b>	
Action category	<i>Planning mechanism</i>
Action type	<i>Develop a drought emergency plan</i>
Action description	<i>Develop a drought emergency plan which includes criteria for drought-related actions, identifying local drought indicators, such as precipitation, temperature, guidance from NJDEP, and institute voluntary and mandatory water conservation measures during drought conditions &amp; emergencies. This includes developing a drought communication plan and early warning system to facilitate timely communication of relevant information to officials, decision makers, emergency managers, and the general public.</i>
Existing, future &/or NA	<i>N/A</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The benefits of having a drought emergency plan will result in avoiding water emergencies through consistent water conservation measures triggered by different levels of drought conditions. While unquantifiable, these benefits are potentially quite high.</i>
Cost estimate	<i>5000 (low)</i>
Cost effectiveness (i.e., benefit/cost)	<i>This action is likely to be cost effective, with its benefits outweighing its costs. This is a low cost action that can be easily implemented and the economic benefits of avoiding true drought emergencies outweigh the cost.</i>
Technical	<i>Technically feasible, easily implemented.</i>
Political	<i>There is current community support for hazard mitigation planning, however there is community resistance to increased local property taxes</i>
Legal	<i>There are no apparent legal issues</i>
Environmental	<i>There is no environmental impact</i>
Social	<i>There is no social impact</i>
Administrative capability	<i>Currently the Borough does not have the administrative capacity to implement this action and outside assistance and/or funding is required.</i>
Local champion	<i>Possibly environmental commission</i>
Other community objectives	<i>This action supports the objectives of emergency preparedness and environmental conservation</i>
<b>Implementing the Action</b>	
Priority	<i>Low</i>
Local planning mechanism	<i>Emergency Operations Plan -Hazardous Weather Annex</i>
Responsible party	<i>Office of Emergency Management</i>
Potential funding sources	<i>Hazard Mitigation Planning Grants, Community Resiliency Grants, HMGP funding</i>
Time line	<i>1-year</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

<b>Action Worksheet 7: Retrofit Structures for Earthquakes</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Manasquan Borough</i>
Community action number	<i>Manasquan Borough # 7</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Earthquakes</i>
Risk finding	<i>The Borough has structures, including critical facilities and equipment, vulnerable to earthquakes</i>
<b>Describing the Action</b>	
Action category	<i>Structural Project</i>
Action type	<i>Retrofit existing structures, facilities &amp; equipment to make resistant to seismic loading</i>
Action description	<i>An inventory of public and commercial buildings that are vulnerable to earthquake damage will be identified under Community Action Number 1 - Risk Assessment &amp; Mapping. This action item will include conducting seismic retrofitting of these structures based upon rank (most vulnerable) and importance (most critical). Such mitigation actions may include, but are not limited to bracing of generators, elevators, and other vital equipment, strengthening and retrofitting non-reinforced masonry buildings and non-ductile concrete facilities that are particularly vulnerable to ground shaking, retrofitting building veneers to prevent failure, anchoring rooftop-mounted equipment, and otherwise retrofitting structures and equipment to make earthquake resistant. This will also include reviewing building codes and structural policies to ensure they are adequate to protect older structures from seismic damage. This item will also include requiring or encouraging seismic engineering measures and construction techniques that may include the mitigation actions listed above.</i>
Existing, future &/or NA	<i>Both, new &amp; existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Based upon current available data, the return on investment of earthquake hardening is 6 to 1. This would yield a benefit of \$150,000,000 saved in the event of an earthquake.</i>
Cost estimate	<i>25,000,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>The cost of implementing this action will be far outweighed by the rebuilding costs if this action is not implemented and the Borough is struck with an earthquake. Based upon current available data, the return on investment of earthquake hardening is 6 to 1.</i>
Technical	<i>Technically feasible, difficult implementation. Seismic vulnerabilities solved for long term.</i>
Political	<i>There is community resistance to increased local property taxes</i>
Legal	<i>There are no apparent legal issues</i>
Environmental	<i>There is no environmental impact</i>
Social	<i>There is no social impact</i>
Administrative capability	<i>Currently the Borough does not have the administrative capacity to implement this action and outside assistance and/or funding is required.</i>
Local champion	<i>Possibly chamber of commerce and home/business owners</i>
Other community objectives	<i>This action supports the objectives of emergency preparedness and community resiliency</i>
<b>Implementing the Action</b>	
Priority	<i>Low</i>
Local planning mechanism	<i>none</i>
Responsible party	<i>Office of Emergency Management</i>
Potential funding sources	<i>Community Resiliency Grants, HMGP funding</i>
Time line	<i>10-years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

## Action Worksheet 8: Back-up Power for Critical Facilities

Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Manasquan Borough</i>
Community action number	<i>Manasquan Borough # 8</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>(ALL) Drought, Earthquakes, Extreme Temperatures, Extreme Wind, Coastal Erosion, Floods, Lightning, Sea Level Rise, Severe Winter Storms, Storm Surge, Tornado, Wildfire</i>
Risk finding	<i>The Borough has critical facilities and equipment that are vulnerable to power failure</i>
<b>Describing the Action</b>	
Action category	<i>Structural Project</i>
Action type	<i>Provide back-up power generation for critical facilities and equipment</i>
Action description	<i>An inventory of all critical facilities and equipment shall be made and ranked in order of importance. Emergency back-up generators will be provided and maintained at each of the facilities.</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>FEMA has adopted a disaster-specific methodology for generator projects at critical facilities. The Benefit-Cost Analysis "BCA" – Generator Sensitivity Matrix provides a conservative estimate of "benefits" or losses avoided by the presence and operation of a generator at certain types of critical facilities, including Water [Supply] Plant or Station, Wastewater [Treatment] Plant or Station, Fire Station, Police Station, Hospital &amp; Shelters. Benefits were pre-determined based on actual data and are depicted in relation to the population served by the facility.</i>
Cost estimate	<i>200,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>Based upon the FEMA Benefit-Cost Analysis "BCA" – Generator Sensitivity Matrix, the benefit to having an emergency generator that serves a population of 5,000 in each case is much greater than the cost of the generator itself.</i>
Technical	<i>Technically feasible, easily implemented.</i>
Political	<i>There is community resistance to increased local property taxes</i>
Legal	<i>There are no apparent legal issues</i>
Environmental	<i>There is no environmental impact</i>
Social	<i>There is no social impact</i>
Administrative capability	<i>The Borough has the administrative capacity to implement this action, however outside funding is required to implement this action.</i>
Local champion	<i>Possibly owners/operators of the critical facilities, OEM and Public Works</i>
Other community objectives	<i>This action supports the objectives of emergency preparedness and community resiliency</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Emergency Operations Plan</i>
Responsible party	<i>Office of Emergency Management</i>
Potential funding sources	<i>Community Resiliency Grants, HMGP funding</i>
Time line	<i>10-years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

## Action Worksheet 9: Lightning Protection for Critical Facilities

Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Manasquan Borough</i>
Community action number	<i>Manasquan Borough # 9</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Lightning</i>
Risk finding	<i>The Borough has critical facilities and equipment that are vulnerable to damage from lightning strikes.</i>
<b>Describing the Action</b>	
Action category	<i>Structural Project</i>
Action type	<i>Provide lightning protection for critical facilities and equipment</i>
Action description	<i>An inventory of critical facilities and equipment that are vulnerable to earthquake damage will be identified under Community Action Number 1 - Risk Assessment &amp; Mapping. This action item will include conducting lightning protection of these structures based upon rank (most vulnerable) and importance (most critical). This will include installing lightning protection devices and methods, such as lightning rods and grounding, on communications infrastructure and other critical facilities, as well as installing and maintaining surge protection on critical electronic equipment.</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Damages resulting from lightning strikes can be extremely expensive. In the last 5 years, Manasquan has had 3 lightning strikes that damaged or destroyed critical equipment, rendering such equipment unusable for extended periods. Losses avoided by the projects are expected to be high, and in excess of estimated costs.</i>
Cost estimate	<i>100000 (low, relative to estimated benefits)</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is expected to be cost-effective; the cost to repair the equipment protected by lightning strike far outweighs the cost of installing the lightning protection.</i>
Technical	<i>Technically feasible, easily implemented.</i>
Political	<i>There is community resistance to increased local property taxes</i>
Legal	<i>There are no apparent legal issues</i>
Environmental	<i>There is no environmental impact</i>
Social	<i>There is no social impact</i>
Administrative capability	<i>Currently the Borough does not have the administrative capacity to implement this action and outside assistance and/or funding is required.</i>
Local champion	<i>Possibly owners/operators of the critical facilities. OEM and Public Works</i>
Other community objectives	<i>This action supports the objectives of emergency preparedness and community resiliency</i>
<b>Implementing the Action</b>	
Priority	<i>Medium</i>
Local planning mechanism	<i>none</i>
Responsible party	<i>Office of Emergency Management</i>
Potential funding sources	<i>Community Resiliency Grants, HMGP funding</i>
Time line	<i>5-years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

<b>Action Worksheet 10: Protect Against Coastal Erosion</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Manasquan Borough</i>
Community action number	<i>Manasquan Borough # 10</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Coastal Erosion and Wave Action</i>
Risk finding	<i>The Borough has a 1-mile long unprotected coastline exposed to the ocean and storms</i>
<b>Describing the Action</b>	
Action category	<i>Structural Project</i>
Action type	<i>Provide erosion and wave protection along the oceanfront</i>
Action description	<i>Fortify a 1-mile portion of coastline with and engineered dune and wall system consisting of high-strength steel wall covered by dune system and vegetation.</i>
Existing, future &/or NA	<i>Both</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Coastal erosion and direct wave attack from Hurricane Sandy caused significant damage to over 25% of the structures on the oceanfront. Implementation of this action is estimated to protect 278 residences (est. avg. loss \$100,000) and 10 businesses (est. avg. loss \$200,000) totaling over \$29,800,000 in damages avoided.</i>
Cost estimate	<i>10,000,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>Based upon the above analysis, the benefit cost ratio is 3:1.</i>
Technical	<i>Technically feasible</i>
Political	<i>There is community resistance to increased local property taxes as well as resistance to a permanent dune system</i>
Legal	<i>There may be issues with easements and/or impacts to residents views</i>
Environmental	<i>There is significant environmental issues with installing a hardened structure in the coastal zone</i>
Social	<i>There is significant resistance among oceanfront homeowners that would have their views negatively impacted.</i>
Administrative capability	<i>The Borough has the administrative capacity to implement this action, however outside funding is required.</i>
Local champion	<i>none identified</i>
Other community objectives	<i>This action supports the objectives of community resiliency</i>
<b>Implementing the Action</b>	
Priority	<i>Medium</i>
Local planning mechanism	<i>none</i>
Responsible party	<i>Office of Emergency Management</i>
Potential funding sources	<i>Community Resiliency Grants, HMGP funding</i>
Time line	<i>10-years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

<b>Action Worksheet 11: Restore Natural Resource Protection</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Manasquan Borough</i>
Community action number	<i>Manasquan Borough # 11</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, Wave Action, Storm Surge &amp; Sea Level Rise</i>
Risk finding	<i>The Borough has a significant number of natural buffers including dunes, salt marshes, coastal wetlands, maritime forests, stream corridors and natural floodplains that are in a deteriorated state that can provide significant natural buffers and flood mitigation.</i>
<b>Describing the Action</b>	
Action category	<i>Natural Resource Protection</i>
Action type	<i>Natural Resource Restoration</i>
Action description	<i>Provide natural resource restoration to existing dunes, salt marshes, coastal wetlands, maritime forests, stream corridors and natural floodplains in order to enhance natural buffers and flood mitigation. This will include developing a comprehensive approach that combines dune, maritime forest, coastal wetlands, salt marsh and stream corridor restoration with a potential flood mitigation opportunities and integrated high water controls in order to reduce both riverine and tidal flooding and protects against sea level rise. The project will restore over 60-acres of coastal wetlands and maritime forest and 6-miles of stream corridors.</i>
Existing, future &/or NA	<i>Both</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Coastal flooding and direct wave attack from Hurricane Sandy caused significant damage to approximately 50% of the commercial and residential housing stock. Implementation of this action is estimated to reduce damages to the nearly 2000 residences (est. avg. flood loss \$50,000) and 30 businesses (est. avg. flood loss \$100,000) damaged during Hurricane Sandy. Even if flood losses were reduced by 20%, this would equate to a savings of \$26,000,000 in flood damages.</i>
Cost estimate	<i>7,000,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>Based upon the above analysis, the benefit cost ratio is almost 4:1.</i>
Technical	<i>Technically feasible</i>
Political	<i>There is community resistance to increased local property taxes</i>
Legal	<i>There may be issues with easements and/or other impacts to residents</i>
Environmental	<i>This is an environmental restoration project and although it has environmental impacts, they should be all positive</i>
Social	<i>There is no social impact</i>
Administrative capability	<i>Currently the Borough does not have the administrative capacity to implement this action and outside assistance and/or funding is required.</i>
Local champion	<i>possibly environmental commission and the Monmouth County Park System</i>
Other community objectives	<i>This action supports the objectives of community resiliency &amp; environmental quality</i>
<b>Implementing the Action</b>	
Priority	<i>Medium</i>
Local planning mechanism	<i>none</i>
Responsible party	<i>Office of Emergency Management</i>
Potential funding sources	<i>Community Resiliency Grants, HMGP funding</i>
Time line	<i>5-years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

## Action Worksheet 12: Increase NFIP/CRS Participation

Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Manasquan Borough</i>
Community action number	<i>Manasquan Borough # 12</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, Wave Action, Storm Surge &amp; Sea Level Rise</i>
Risk finding	<i>The Borough needs to increase participation in the National Flood Insurance Program's (NFIP) Community Rating System (CRS)</i>
<b>Describing the Action</b>	
Action category	<i>Planning Mechanism</i>
Action type	<i>Increased Compliance with NFIP/CRS Program</i>
Action description	<i>Manasquan participates in the National Flood Insurance Program (NFIP) Community Rating System (CRS). This project will include increased regulatory standards both in and out of the floodplain, including enacting and enforcing regulations that exceed NFIP minimum standards so that more flood protection is provided for any development. Existing ordinances will be reviewed and made more stringent, including requiring buildings to be constructed above the minimum elevation required by NFIP, requiring foundation protection on new buildings, requiring any new critical facilities to be build outside of the flood zone, requiring new development to provide positive drainage away from the structure, updating the definition of substantial improvement to include accumulation of improvements counted over 10-years, as well as formally adopting the preliminary Flood Insurance Rate Maps (FIRMS). This will also include advising the public about the local flood hazard, flood insurance, and flood protection measures as part of an organized Program for Public Information (Action Item #4) and increasing our flood warning dissemination and response capabilities (Action Item # 5). This item also includes work included in Action items 13-17, including implementing damage reduction measures for existing buildings such as elevation, acquisition, relocation, retrofitting, and maintenance of drainageways and retention basins.</i>
Existing, future &/or NA	<i>Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>All of the above actions, including higher regulatory standards, increasing public outreach, enhancing hazard warning dissemination and implementing damage reduction measures, all leads to reduction in property damage in the event of a flood. Losses avoided are likely to be high, and well in excess of estimated costs.</i>
Cost estimate	<i>5000 (low, in relation to estimated benefits)</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits well in excess of costs. In addition to the reduction in property damage, the economic benefits of increased CRS compliance and having higher regulatory standards makes the benefits of this action significantly outweigh the other minor costs. This is a low-cost option that can easily be implemented. An increase in the CRS ranking from 7 (current) to 6 will save residents and additional \$118,000 annually on flood insurance premiums.</i>
Technical	<i>Technically feasible</i>
Political	<i>There is community resistance to increased regulatory standards</i>
Legal	<i>There are no legal issues</i>
Environmental	<i>There are no environmental impacts</i>
Social	<i>There is no social impact</i>
Administrative capability	<i>The Borough has the administrative capacity to implement this action</i>
Local champion	<i>Office of Emergency Management will advocate for the project</i>
Other community objectives	<i>These activities may be eligible for credit under the Community Rating System and may lead to lower flood insurance premiums.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Hazard Mitigation Plan, Floodplain Management Plan</i>
Responsible party	<i>Office of Emergency Management</i>
Potential funding sources	<i>Local Hazard Mitigation Program</i>
Time line	<i>1 year</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

## Action Worksheet 13: Floodproof Structures

Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Manasquan Borough</i>
Community action number	<i>Manasquan Borough # 13</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, storm surge &amp; sea level rise</i>
Risk finding	<i>The Borough has residential, commercial and public structures and equipment vulnerable to flooding, storm surge &amp; sea level rise</i>
<b>Describing the Action</b>	
Action category	<i>Structural Project</i>
Action type	<i>Provide floodproofing for residential and non-residential structures &amp; equipment</i>
Action description	<i>An inventory of public and commercial buildings that are vulnerable to flooding, storm surge and sea level rise will be identified under Community Action Number 1 - Risk Assessment &amp; Mapping. This action item will include conducting floodproofing of these structures based upon rank (most vulnerable) and importance (most critical). These structures will be protected from flooding by a combination of methods, including, but not limited to wet floodproofing in a basement, wet floodproofing of areas above base flood elevation, using water resistant paints or other materials to allow for easy cleanup after floodwater exposure, and by dry floodproofing non-residential structures by strengthening walls, sealing openings, or using waterproof compounds or plastic sheeting on walls to keep water out.</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Damage resulting from flooding can be extremely expensive. In the last 3 years, Manasquan has had two Federal declarations that resulted in an estimated \$400,000,000 in flood damages. Even if these claims were reduced by 10%, this would result in 40,000,000 of losses avoided.</i>
Cost estimate	<i>10,000,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>The cost of implementing this action will be far outweighed by the rebuilding costs if this action is not implemented and the Borough is struck with another flood or storm surge. Based upon recent data, the return on investment of floodproofing is 4 to 1.</i>
Technical	<i>Technically feasible, implementation difficult due to varied structure types &amp; ownership.</i>
Political	<i>There is community resistance to increased local property taxes</i>
Legal	<i>There are no apparent legal issues</i>
Environmental	<i>There is no environmental impact</i>
Social	<i>There is no social impact</i>
Administrative capability	<i>Currently the Borough does not have the administrative capacity to implement this action and outside assistance and/or funding is required.</i>
Local champion	<i>possibly homeowners in flood zone, owners/operators of critical facilities</i>
Other community objectives	<i>This action supports the objectives of community resiliency</i>
<b>Implementing the Action</b>	
Priority	<i>Medium</i>
Local planning mechanism	<i>Hazard Mitigation Plan</i>
Responsible party	<i>Office of Emergency Management</i>
Potential funding sources	<i>Community Resiliency Grants, HMGP funding</i>
Time line	<i>10-years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

## Action Worksheet 14: Elevate Structures

Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Manasquan Borough</i>
Community action number	<i>Manasquan Borough # 14</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, wave action, storm surge &amp; sea level rise</i>
Risk finding	<i>The Borough has residential, commercial and public structures and critical facilities and equipment vulnerable to flooding, storm surge &amp; sea level rise</i>
<b>Describing the Action</b>	
Action category	<i>Structural Project</i>
Action type	<i>Elevate residential and non-residential structures &amp; equipment</i>
Action description	<i>An inventory of public and commercial buildings that are vulnerable to flooding, storm surge and sea level rise will be identified under Community Action Number 1 - Risk Assessment &amp; Mapping. This action item will include elevating these structures based upon rank (most vulnerable) and importance (most critical). These structures and facilities and equipment will be elevated at least 1-foot above minimum NFIP base flood elevation requirements to protect from flooding, storm surge &amp; sea level rise.</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Damage resulting from flooding can be extremely expensive. In the last 3 years, Manasquan has had two Federal declarations that resulted in an estimated \$400,000,000 in damages.</i>
Cost estimate	<i>200,000,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>The cost of implementing this action will be far outweighed by the rebuilding costs if this action is not implemented and the Borough is struck with another flood or storm surge. Based upon recent data, the return on investment of elevating is 2 to 1.</i>
Technical	<i>Technically feasible, implementation difficult due to varied structure types &amp; ownership.</i>
Political	<i>There is community resistance to increased local property taxes</i>
Legal	<i>There are no apparent legal issues</i>
Environmental	<i>There is no environmental impact</i>
Social	<i>There is no social impact, as most neighborhoods have already undertaken home elevations of some kind</i>
Administrative capability	<i>Currently the Borough does not have the administrative capacity to implement this action and outside assistance and/or funding is required.</i>
Local champion	<i>possibly homeowners in flood zone, owners/operators of critical facilities</i>
Other community objectives	<i>This action supports the objectives of community resiliency and these actions are eligible for credit under the Community Rating System and may lead to lower flood insurance premiums.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Hazard Mitigation Plan, NFIP/CRS Program</i>
Responsible party	<i>Office of Emergency Management</i>
Potential funding sources	<i>Community Resiliency Grants, HMGP funding</i>
Time line	<i>10-years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>This action has been carried forward from last plan. Since the last plan update, the Borough has applied for 186,000,000 from the Post-Sandy Hazard Mitigation funds. \$100,000,000 has been allocated state-wide for home elevations, however money has yet to be allocated. Even if Manasquan were to receive 10% of the total allocation to NJ, this would only fund \$10,000,000 or 5% of the Borough's need. This is expected to take 10-years to complete.</i>

## Action Worksheet 15: Re-locate Structures

Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Manasquan Borough</i>
Community action number	<i>Manasquan Borough # 15</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, wave action, storm surge &amp; sea level rise</i>
Risk finding	<i>The Borough has residential, commercial and public structures and critical facilities and equipment located in high-hazard areas vulnerable to flooding, wave action, storm surge &amp; sea level rise</i>
<b>Describing the Action</b>	
Action category	<i>Structural Project</i>
Action type	<i>Re-locate residential and non-residential structures &amp; critical facilities and equipment out of high-hazard areas vulnerable to flooding, wave action, storm surge &amp; sea level rise</i>
Action description	<i>An inventory of public and commercial buildings that are vulnerable to flooding, storm surge and sea level rise will be identified under Community Action Number 1 - Risk Assessment &amp; Mapping. This action item will include relocating of these structures based upon rank (most vulnerable) and importance (most critical). These structures and facilities and equipment will be relocated to low-hazard areas to protect from flooding, wave action, storm surge &amp; sea level rise. This may include compensating an owner for partial rights, such as easement or development rights, to prevent a property from being developed.</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Damage resulting from flooding can be extremely expensive. In the last 3 years, Manasquan has had two Federal declarations that resulted in an estimated \$400,000,000 in damages.</i>
Cost estimate	<i>500,000,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is expected to be cost effective, with annual benefits far exceeding annual costs. The cost of implementing this action is very high, however, in the long run, money is saved through the elimination of repetitive losses.</i>
Technical	<i>Technically feasible, implementation difficult due to varied structure types &amp; ownership issues.</i>
Political	<i>There is community resistance to increased local property taxes and to retreating from coastal areas</i>
Legal	<i>There will be legal issues if property owners are unwilling to relocate</i>
Environmental	<i>There is a positive environmental impact for restoring previously developed areas to natural buffers</i>
Social	<i>There is a huge social impact in retreating from the coastal zone</i>
Administrative capability	<i>Currently the Borough does not have the administrative capacity to implement this action and outside assistance and/or funding is required.</i>
Local champion	<i>none</i>
Other community objectives	<i>This action supports the objectives community resiliency and these actions are eligible for credit under the Community Rating System and may lead to lower flood insurance premiums.</i>
<b>Implementing the Action</b>	
Priority	<i>Medium</i>
Local planning mechanism	<i>Hazard mitigation plan, NFIP/CRS Program, Green Acres Fund, Blue Acres Program</i>
Responsible party	<i>Office of Emergency Management</i>
Potential funding sources	<i>Community Resiliency Grants, HMGP funding</i>
Time line	<i>50-years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>This action has been carried forward from last plan. Since the last plan update, the Borough has made no progress on this front. Limited funding has been made available through the blue-acres program, however, there has been little support for retreating from the coastal zone. Once high-hazard areas are accurately defined, we can begin to identify potential areas to restore to open space. This is expected to take at least 50-years to complete.</i>

## Action Worksheet 16: Protect Infrastructure

Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Manasquan Borough</i>
Community action number	<i>Manasquan Borough # 16</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, storm surge &amp; sea level rise</i>
Risk finding	<i>The Borough has roads and infrastructure located in high-hazard areas vulnerable to flooding, storm surge &amp; sea level rise</i>
<b>Describing the Action</b>	
Action category	<i>Structural Project</i>
Action type	<i>Protect roads and infrastructure located in high-hazard areas vulnerable to flooding, storm surge &amp; sea level rise</i>
Action description	<i>An inventory of public access roads and infrastructure that are in high-hazard areas vulnerable to flood damage will be identified under Community Action Number 1 - Risk Assessment &amp; Mapping. Critical access roads in these areas will be elevated to protect from flooding and storm surge. Roadway drainage will be improved, one-way tide-flex type valves installed, and vulnerable shoulders will be stabilized using bioengineered bank stabilization techniques. Seawalls or other structures will be constructed to protect critical facilities located on the shoreline. Water and wastewater treatment facilities located in high-hazard areas will be flood-protected. This will include retrofitting structures to elevate them above forecasted sea level rise levels, retrofitting critical facilities to be 1 foot above the 500-year flood elevation (considering wave action) or the predicted sea level rise level, whichever is higher and replacing exterior building components with more hazard resistant materials.</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Damage resulting from flooding can be extremely expensive. In the last 3 years, Manasquan has had two Federal declarations that resulted in an estimated \$400,000,000 in damages. Loss of access for emergency services to flooded or damaged roadways cuts off access to a year-round population of over 2,000 and seasonal population of over 20,000.</i>
Cost estimate	<i>10,000,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>The cost of implementing this action will be outweighed by the loss of emergency services and the potential threat to public safety if critical access roads are flooded or damaged and emergency response personnel cannot access beach areas. This project also protects critical infrastructure from flood damages far outweighing the cost of implementation.</i>
Technical	<i>Technically feasible, easily implemented</i>
Political	<i>There is community resistance to increased local property taxes, however there is community support for flood protection</i>
Legal	<i>There are no legal issues</i>
Environmental	<i>There is no environmental impact</i>
Social	<i>There is no social impact</i>
Administrative capability	<i>Currently the Borough does not have the administrative capacity to implement this action and outside assistance and/or funding is required.</i>
Local champion	<i>Emergency Response Agencies, MBIA, OEM, homeowners in affected areas</i>
Other community objectives	<i>This action supports the objectives community resiliency and emergency response</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Hazard Mitigation Plan</i>
Responsible party	<i>Office of Emergency Management</i>
Potential funding sources	<i>Community Resiliency Grants, HMGP funding, Transportation funds</i>
Time line	<i>10-years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

## Action Worksheet 17: Structural Flood Control

Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Manasquan Borough</i>
Community action number	<i>Manasquan Borough # 17</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, storm surge &amp; sea level rise</i>
Risk finding	<i>The Borough has roads and infrastructure located in high-hazard areas vulnerable to flooding, storm surge &amp; sea level rise</i>
<b>Describing the Action</b>	
Action category	<i>Structural Project</i>
Action type	<i>Construct a seawall and flood gate to protect against flooding, storm surge &amp; sea level rise</i>
Action description	<i>This action item includes the construction of a steel seawall along the Atlantic ocean and a flood gate across the Manasquan Inlet. This project would protect all communities in the Manasquan River floodplain from coastal flooding, storm surge and sea level rise. The steel seawall would be covered in a man-made, vegetated dune and would be tied into high ground on the Sea Girt border to the north and a flood gate across Manasquan Inlet to the south. The same seawall would run the length of Point Pleasant Beach.</i>
Existing, future &/or NA	<i>Both</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>This project would eliminate all flood damages resulting from coastal storms, nor'easters, tropical storms and hurricanes for the communities of Manasquan, Brielle, Wall Township, Brick Township, Point Pleasant, and Point Pleasant Beach. This project will likely provide over 1 billion dollars of flood damage avoidance in the event of another Hurricane Sandy. The project would also provide damage reduction in all storm surge events, including 5, 10, and 20-year storm events. This project also prevents loss of life and the threat to public safety that these storms pose.</i>
Cost estimate	<i>150,000,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>The cost of implementing this action, will be far outweighed by the elimination of flood damages, as well as eliminating the threat to life and property that coastal storms pose.. This project also protects critical infrastructure from flood damages far outweighing the cost of implementation.</i>
Technical	<i>Installing this flood gate would be both technically challenging and technically feasible</i>
Political	<i>There is community resistance to increased local property taxes, however there is community support for flood protection especially a large-scale project such as this.</i>
Legal	<i>There may be significant legal issues regarding easements and homeowners views being blocked by dunes</i>
Environmental	<i>There is significant environmental issues with installing a hardened structure in the coastal zone</i>
Social	<i>There is significant resistance among oceanfront homeowners that would have their views negatively impacted by a seawall/dune system</i>
Administrative capability	<i>Currently the Borough does not have the administrative capacity to implement this action and outside assistance and/or funding is required. This would have to be a joint project undertaken by multiple municipalities, and administered at the State and/or Federal level.</i>
Local champion	<i>Emergency Response Agencies, MBIA, OEM, homeowners in affected areas</i>
Other community objectives	<i>This action supports the objectives community resiliency and emergency response</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>none</i>
Responsible party	<i>Office of Emergency Management</i>
Potential funding sources	<i>Community Resiliency Grants, HMGP funding, Federal USACE funds</i>
Time line	<i>50-years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

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Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Manasquan Borough</i>
Community action number	<i>Manasquan Borough # 18</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Severe Winds</i>
Risk finding	<i>The Borough has structures, including critical facilities and equipment, vulnerable to high winds</i>
<b>Describing the Action</b>	
Action category	<i>Structural Project</i>
Action type	<i>Retrofit existing structures, facilities &amp; equipment to make resistant to high wind loading</i>
Action description	<i>An inventory of public and commercial buildings that are vulnerable to high winds will be identified under Community Action Number 1 - Risk Assessment &amp; Mapping. This action item will include conducting retrofitting of these structures based upon rank (most vulnerable) and importance (most critical). Such mitigation actions may include, but are not limited to, installing hurricane shutters or other protective measures, retrofitting gable end walls to eliminate wall failures in high winds, replacing existing non-ductile infrastructure with ductile infrastructure to reduce their exposure to hazardous events, retrofitting buildings with load-path connectors to strengthen the structural frames, reinforcing garage doors, anchoring roof-mounted heating, ventilation, and air conditioning units, retrofitting the emergency operations center to FEMA 361 standards, upgrading of reused buildings that will house critical facilities, and otherwise retrofitting structures and equipment to make wind resistant. This will also include reviewing building codes and structural policies to ensure they are adequate to protect older structures from wind damage. This item will also include requiring or encouraging wind engineering measures and construction techniques that may include structural bracing, straps and clips, anchor bolts, laminated or impact-resistant glass, reinforced pedestrian and garage doors, window shutters, waterproof adhesive sealing strips, or interlocking roof shingles.</i>
Existing, future &/or NA	<i>Both</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Based upon current available data from FEMA, the return on investment of wind protection measures is 3 to 1. This would yield a benefit of \$6,000,000 saved.</i>
Cost estimate	<i>2,000,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>The cost of implementing this action will be far outweighed by the rebuilding costs if this action is not implemented and the Borough is struck with an hurricane or other high wind event. Based upon current available data, the return on investment of installing wind protection is 3 to 1.</i>
Technical	<i>Technically feasible, difficult implementation. Wind vulnerabilities solved for long term.</i>
Political	<i>There is community resistance to increased local property taxes. There may be some resistance to increased building code regulations</i>
Legal	<i>There are no apparent legal issues</i>
Environmental	<i>There is no environmental impact</i>
Social	<i>There is no social impact</i>
Administrative capability	<i>Currently the Borough does not have the administrative capacity to implement this action and outside assistance and/or funding is required.</i>
Local champion	<i>Possibly chamber of commerce</i>
Other community objectives	<i>This action supports the objectives of emergency preparedness and community resiliency</i>
<b>Implementing the Action</b>	
Priority	<i>Low</i>
Local planning mechanism	<i>none</i>
Responsible party	<i>Office of Emergency Management</i>
Potential funding sources	<i>Community Resiliency Grants, HMGP funding</i>
Time line	<i>10-years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Township of Marlboro</i>
<b>Community action number</b>	<i>1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Extreme Temperatures; Extreme Wind; Hurricane &amp; Tropical Storm; Lightning; Nor'easter; Tornado; Winter Storm; Drought; Flood; Earthquake; Wildfire</i>
<b>Risk finding</b>	<i>Improve residents awareness of local hazards of all types; preparedness to respond to events of all types; resilience to return to normalcy after an event. The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Education and Outreach</i>
<b>Action type</b>	<i>Provide awareness and readiness information</i>
<b>Action description</b>	<i>Distribute timely awareness and readiness information regarding seasonal atmospheric hazards and personal preparedness and readiness guidelines.</i>
<b>Existing, future &amp;/or NA</b>	<i>Action protects existing and future stakeholders.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Educated citizenry can make accurate and intelligent choices regarding their own safety and well being and reduce the burden on emergency service personnel. Losses avoided are difficult to quantify, but are likely to be more than the project costs of \$15,000.</i>
<b>Cost estimate</b>	<i>\$15,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Potential community loss due to lack of public knowledge and readiness is extremely high. This is a low-cost action that is easily managed and fast to implement. This project is likely to be cost effective</i>
<b>Technical</b>	<i>Technically feasible.</i>
<b>Political</b>	<i>No apparent political issues</i>
<b>Legal</b>	<i>Action is legal and information has been provided in this way many times.</i>
<b>Environmental</b>	<i>No environmental impacts</i>
<b>Social</b>	<i>Provides information to all socio-economic groups.</i>
<b>Administrative capability</b>	<i>Administrative cost is low and requires minimal management.</i>
<b>Local champion</b>	<i>Police Department; Emergency Management</i>
<b>Other community objectives</b>	<i>Builds public trust and confidence in Township administration</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>N/A</i>
<b>Responsible party</b>	<i>Administration and Office of Emergency Management</i>
<b>Potential funding sources</b>	<i>Local budget and staffing</i>
<b>Time line</b>	<i>Commence within 3 months &amp; action will be ongoing</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward from the last version of the plan</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Township of Marlboro</i>
<b>Community action number</b>	2
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Extreme Temperatures; Hgrricane &amp; Tropical Storm; Nor'easter; Winter Storm; Drougdt; Wilhfire</i>
<b>Risk finding</b>	<i>Tdere is a neeh for improving the timeliness and accuracy of information being provided to resident to allow them to ensure preparedness and allow them to make educated decisions regarding their own health and safety and property protection/mitigation measures</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Planning Mechanism</i>
<b>Action type</b>	<i>Public awareness and outreach</i>
<b>Action description</b>	<i>Use all forms of print and social media to provide advanced warning and notification of impending severe weather events and all incidents jeopardizing public safety. (including, but not limited to: reverse 9-1-1, "Twitter," and Facebook accounts to provide alerts and update information regarding hurricanes and severe weather events.)</i>
<b>Existing, future &amp;/or NA</b>	<i>Both</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Advanced warning will allow the residents to ensure their preparedness, harden and prepare their properties if needed, and/or relocate or self evacuate if needed. Improved preparedness will reduce the burden on first responders. Losses avoided are difficult to quantify, but are likely to be more than estimated costs of \$10,000.</i>
<b>Cost estimate</b>	<i>\$10,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Potential for loss due to lack of preparation is greater than the cost projected to provide this function.</i>
<b>Technical</b>	<i>Technically feasible</i>
<b>Political</b>	<i>No Political issues</i>
<b>Legal</b>	<i>No apparent legal issues</i>
<b>Environmental</b>	<i>No environmental impacts</i>
<b>Social</b>	<i>Actions implemented will reachout to allembers of the community</i>
<b>Administrative capability</b>	<i>Township staff can manage activities; outside resources may be developed to provide information</i>
<b>Local champion</b>	<i>Administration</i>
<b>Other community objectives</b>	<i>Builds public trust and confidence in the local administration.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Plans and procedures will be developed outlining means and methodes of providing information</i>
<b>Responsible party</b>	<i>Administration and Office of Emergency Management</i>
<b>Potential funding sources</b>	<i>Local Staff Time and operating budgets</i>
<b>Time line</b>	<i>Ongoing Project</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward from the last version of the plan</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Township of Marlboro</i>
Community action number	3
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Hurricane &amp; Tropical Storm; Nor'easter; Winter Storm</i>
Risk finding	<i>Maintaining the operation of critical infrastructure during storm events is critical; however, some systems lack backup sources of power that would ensure their operability during a power outage (i.e., Tennent Road Water Treatment Plant and Pump Station)</i>
<b>Describing the Action</b>	
Action category	<i>Structural Project</i>
Action type	<i>Hardening critical infrastructure</i>
Action description	<i>Installation of a stand-by generator at the Tennent Road Water Treatment Plant and Pump Station</i>
Existing, future &/or NA	<i>Both</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Will allow the Township to provide potable water to the stakeholders in the event of a power outage. Loss of power at this facility will result in the loss of all water service to the community. Potable water will need to be trucked in at a cost of \$30,000 per day. fire protection services will be severely hampered as well.</i>
Cost estimate	<i>\$500,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>Critical facility provides for water treatment and supply of potable water and fire protection to the Township. Back-up power is essential to keep the facility in operation. This project is likely to be cost effective, with benefits being realized by the ability to provide uninterrupted fire protection service as well as a reliable supply of potable water, at an initial cost of \$500,000 for design and installation.</i>
Technical	<i>Technically feasible</i>
Political	<i>No political issues</i>
Legal	<i>No legal issues</i>
Environmental	<i>No environmental issues</i>
Social	<i>No social impacts</i>
Administrative capability	<i>Project will need to be professionally designed and installed by a contractor</i>
Local champion	<i>Public Works</i>
Other community objectives	<i>Will support overall capital improvement plan and maintain quality of life for the stakeholders.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Capital Improvement Plan</i>
Responsible party	<i>Engineering</i>
Potential funding sources	<i>Capital Funds; Grants; Loans</i>
Time line	<i>Urgent Need</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Township of Marlboro</i>
<b>Community action number</b>	4
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Hurricane &amp; Tropical Storm; Nor'easter; Winter Storm</i>
<b>Risk finding</b>	<i>Maintaining the operation of critical infrastructure during storm events is critical; however, some systems lack backup sources of power that would ensure their operability during a power outage (i.e., Water Utility wells 3 and 4 at the Harbor Road Water Treatment Plant</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural Project</i>
<b>Action type</b>	<i>Hardening critical infrastructure</i>
<b>Action description</b>	<i>Installation of a stand-by generator for Water Utility wells 3 and 4 at the Harbor Road Water Treatment Plant</i>
<b>Existing, future &amp;/or NA</b>	<i>Both</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Will allow the Township to provide potable water to the stakeholders in the event of a power outage. Loss of both wells will cost \$9,114 per day to purchase water to replace that lost, if water is available from other sources.</i>
<b>Cost estimate</b>	<i>\$300,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Critical facility supplies 50% of the water to the Township for fire protection and residential use. Back-up power is essential to keep the facility in operation. Cost effectiveness will be realized through the ability to operate the wells during an emergency event, allowing the wells to be productive and not necessitating the purchase of potable water.</i>
<b>Technical</b>	<i>Technically feasible</i>
<b>Political</b>	<i>No political issues</i>
<b>Legal</b>	<i>No legal issues</i>
<b>Environmental</b>	<i>No environmental issues</i>
<b>Social</b>	<i>No social impacts</i>
<b>Administrative capability</b>	<i>Project will need to be professionally designed and installed by a contractor</i>
<b>Local champion</b>	<i>Public Works</i>
<b>Other community objectives</b>	<i>Will support overall capital improvement plan and maintain quality of life for the stakeholders.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Capital Improvement Plan</i>
<b>Responsible party</b>	<i>Engineering</i>
<b>Potential funding sources</b>	<i>Capital Funds; Grants; Loans</i>
<b>Time line</b>	<i>Urgent Need</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Township of Marlboro</i>
Community action number	5
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Hurricane &amp; Tropical Storm; Nor'easter; Winter Storm; Extreme Temperatures</i>
Risk finding	<i>Maintaining the operation of critical infrastructure during storm events is critical; however, some systems lack backup sources of power that would ensure their operability during a power outage (i.e., the Recreation Center (shelter))</i>
<b>Describing the Action</b>	
Action category	<i>Structural Project</i>
Action type	<i>Hardening critical infrastructure</i>
Action description	<i>Installation of a stand-by generator at the Recreation Center (shelter)</i>
Existing, future &/or NA	<i>Both</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Will allow the Township to provide shelter and care for stakeholders during catastrophic events. Potential losses are difficult to quantify monetarily as compared to stakeholder health and safety.</i>
Cost estimate	<i>\$300,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>The potential cost of failing to provide adequate sheltering for our stakeholders outweighs the physical cost of completing the project. Provision of emergency power to the shelter is critical to the function of sheltering and caring for the residents of the Township.</i>
Technical	<i>Technically feasible</i>
Political	<i>No political issues</i>
Legal	<i>No legal issues</i>
Environmental	<i>No environmental issues</i>
Social	<i>No social impacts</i>
Administrative capability	<i>Project will need to be professionally designed and installed by a contractor</i>
Local champion	<i>Administration</i>
Other community objectives	<i>Will support overall capital improvement plan and maintain quality of life for the stakeholders.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Capital Improvement Plan</i>
Responsible party	<i>Engineering</i>
Potential funding sources	<i>Capital Funds; Grants; Loans</i>
Time line	<i>Urgent Need</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New action</i>

## Action Worksheet

<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Marlboro</i>
<b>Community action number</b>	<i>6</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Storm surge, flooding, hurricanes, tropical storms, nor'easters, wave action, winter storms
<b>Risk finding</b>	Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	Protect Structures
<b>Action description</b>	Elevation and/or Acquisition of Floodprone Residential Structures, with particular focus on those in our community that are on FEMA's Repetitive Loss List and Severe Repetitive Loss List. New Jersey is committed to continuing the reduction of RL and SRL properties in the State; in turn, they have assigned a high priority to mitigating SRL and RL properties in the State Hazard Mitigation Plan. We are committed to supporting these projects as interested homeowners come forward and will support such homeowners, despite the loss in tax revenue, because we recognize the importance of making our community more disaster-resistant and reducing the financial burden of repetitive flooding in our community.
<b>Existing, future &amp;/or NA</b>	Existing
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Properties on FEMA's RL list have already incurred flood-related damage on two occasions, in which the cost of the repair, on average, equaled or exceeded 25% of the market value of the structure at the time of each such flood event. Properties on FEMA's SRL list have already incurred flood related damage (i) For which four or more separate claims payments have been made under flood insurance coverage with the amount of each such claim exceeding \$5,000, and with the cumulative amount of such claims payments exceeding \$20,000; or (ii) For which at least two separate claims payments have been made under such coverage, with the cumulative amount of such claims exceeding the market value of the insured structure. While losses avoided by elevating or acquiring properties on FEMA's RL and SRL lists are unquantifiable until specific interested homeowners come forward, they would meet these criterion by definition, at a minimum.
<b>Cost estimate</b>	Project costs are unquantifiable at this time. They would depend on the particular home(s) in question, and the nature of the project the homeowner is interested in (acquisition, or elevation).
<b>Cost effectiveness (i.e., benefit/cost)</b>	Because our RL and SRL properties have incurred so much damage historically, it is highly probably that mitigating these properties would be cost effective. Specific determinations of cost-effectiveness would be done in the future on a case by case basis as interested homeowners come forward and project details are specified.
<b>Technical</b>	Elevation and acquisition are both technically feasible project types
<b>Political</b>	Our political leadership supports this type of project
<b>Legal</b>	While the municipality does not own the structures in question, we fully support the homeowners in moving forward
<b>Environmental</b>	No environmental impacts are anticipated at this time; this would be confirmed as specific homeowners come forward and their property details are reviewed. It is likely that environmental impacts would be positive, as household hazardous wastes are no longer introduced into floodwaters.
<b>Social</b>	No particular social group in our community is likely to be disproportionately impacted by this project; this would be re-evaluated as particular interested homeowners come forward.
<b>Administrative capability</b>	Our municipality has the administrative capabilities to manage an elevation and/or acquisition project
<b>Local champion</b>	affected homeowners, elected officials
<b>Other community objectives</b>	Improve and protect lifestyles of residents; reduction of costly property damage; resiliency; floodplain management; capital improvements
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	Homeowners; Mayor; Council; Administrator; Engineer; local ordinance; Hazard Mitigation Plan
<b>Responsible party</b>	Construction Official
<b>Potential funding sources</b>	FEMA hazard mitigation grant funding streams (i.e., HMGP, FMA, etc)
<b>Time line</b>	This is projected to be an ongoing type of activity, with our municipality supporting interested parties as they come forward.
<b>Reporting on Progress</b>	
<b>Action progress status</b>	New action

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Matawan Borough</i>
<b>Community action number</b>	<i>Matawan #1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Dam failure / flood/ erosion / hurricanes / tropical storms / nor'easters</i>
<b>Risk finding</b>	<i>The Lake Lefferts Dam is a high hazard dams noted by the municipality as in need of replacement. Potential for extensive damage downstream from Lake Lefferts to include the NJ Transit North Jersey Coast Railroad bridge over Matawan Creek. Slope failure and erosion to numerous lakefront homes. Environmental and wildlife issues associated with the draining of the lake. Flooding occurs due to severe storms such as nor'easters and/or hurricanes. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Infrastructure Project</i>
<b>Action type</b>	<i>Dam replacement</i>
<b>Action description</b>	<i>Replace existing Lake Lefferts dam to include re-aligning of Ravine Dr. to comply with current DOT standards.</i>
<b>Existing, future &amp;/or NA</b>	<i>Project will protect both existing and future developments.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Potential avoided losses include significant damage to the RR bridge over Matawan Creek, damage to property of lakefront homes, damage to or destruction of the Matawan Creek Bridge on Aberdeen Rd. Economic and social losses to the community associated with the loss of the lake and lakefront activities such as canoeing and fishing. While difficult to quantify, losses avoided could be in the range of roughly \$10 million to \$ 15 million.</i>
<b>Cost estimate</b>	<i>\$8 million</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project will be cost effective compared to the potential for loss as indicated above, with benefits on the order of \$10million to \$15million and costs of only \$8 million.</i>
<b>Technical</b>	<i>This mitigation action is technically feasible. Any threat of dam failure and the associated losses will be solved.</i>
<b>Political</b>	<i>This project is being strongly advised by the Department of Environmental Protection. Some political issues may arise over ownership and responsibility of funding between the Borough of Matawan and the County of Monmouth.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>Project would require permitting by the DEP.</i>
<b>Social</b>	<i>Project does not negatively impact any particular group as currently proposed. Project could negatively impact motorist if the roadway is impassable for any considerable duration.</i>
<b>Administrative capability</b>	<i>Borough Administrator, Borough and County Engineers would be responsible for administration of project.</i>
<b>Local champion</b>	<i>NJ DEP, Monmouth County Department of Public Works &amp; Engineering, Matawan Borough Council</i>
<b>Other community objectives</b>	<i>Project would support the adjacent Lake Lefferts recreation facility (Green Acres park and recreation area).</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Borough &amp; County Engineering, Planning and Bond Ordinances</i>
<b>Responsible party</b>	<i>Borough and County Engineers</i>
<b>Potential funding sources</b>	<i>State, County and Federal Grants, Bonded funds</i>
<b>Time line</b>	<i>2-3 years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward from the last version of the plan. Project is currently in design phase. Projected start of project is 2015 with a 15-18 month time frame to completion.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Matawan Borough</i>
<b>Community action number</b>	<i>Matawan #2</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Dam failure / flood/ erosion/ hurricanes / tropical storms / nor'easters</i>
<b>Risk finding</b>	<i>The Lake Matawan Dam is a high hazard dams noted by the municipality as in need of replacement. Potential for extensive damage to the surrounding properties of Lake Matawan to include Main Street (County Route 516). Slope failure and erosion to numerous lakefront homes. Environmental and wildlife issues associated with the draining of the lake. Flooding occurs due to severe storms such as nor'easters and/or hurricanes. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Infrastructure Project</i>
<b>Action type</b>	<i>Dam replacement</i>
<b>Action description</b>	<i>Replace existing Lake Matawan dam to include replacement of the Main Street Lake Matawan/Matawan Creek Bridge and adjoining roadway.</i>
<b>Existing, future &amp;/or NA</b>	<i>Project will protect both existing and future developments, including the anticipated redevelopment of the NJ Transit Village area.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Potential avoided losses include significant damage to the bridge over Matawan Creek, damage to property of lakefront homes, damage to or destruction of the Lake matawan/Matawan Creek on Main Street. Economic losses to the community associated with the damage to or destruction of the bridge and roadway. While difficult to quantify, losses avoided could be in the range of roughly \$10 million to \$12 million.</i>
<b>Cost estimate</b>	<i>\$8 million</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project will be cost effective compared to the potential for loss as indicated above. This project will be cost effective compared to the potential for loss as indicated above, with benefits on the order of \$10 million to \$12 million and costs of only \$8 million.</i>
<b>Technical</b>	<i>This mitigation action is technically feasible. Any threat of dam failure and the associated losses will be solved.</i>
<b>Political</b>	<i>This project is being strongly advised by the Department of Environmental Protection. Some political issues may arise over ownership and responsibility of funding between the Borough of Matawan and the County of Monmouth.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>Project would require permitting by the DEP.</i>
<b>Social</b>	<i>Project does not negatively impact any particular group as currently proposed. Project could negatively impact motorists if the roadway is impassable for any considerable duration. Main Street is a direct thoroughfare to the Aberdeen-Matawan Train Station on NJ Transit's North Jersey Coast RR line.</i>
<b>Administrative capability</b>	<i>Borough Administrator, Borough and County Engineers would be responsible for administration of project.</i>
<b>Local champion</b>	<i>NJ DEP, Monmouth County Department of Public Works &amp; Engineering, Matawan Borough Council</i>
<b>Other community objectives</b>	<i>Project would support the near-by Aberdeen-Matawan Train Station (and the proposed redevelopment of the area) and the Main Street Business District.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Borough &amp; County Engineering, Planning and Bond Ordinances</i>
<b>Responsible party</b>	<i>Borough and County Engineers</i>
<b>Potential funding sources</b>	<i>State, County and Federal Grants, Bonded funds</i>
<b>Time line</b>	<i>4-5 years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward from the last version of the plan. The Engineering Firm for this project is expected to be selected in the near future. RFP's for engineering have been issued.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Matawan Borough</i>
<b>Community action number</b>	<i>Matawan #3</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooded, inaccessible roadway (tidal flooding, storm surge, hurricanes, tropical storms, nor'easters)</i>
<b>Risk finding</b>	<i>Aberdeen Road - downstream from Lake Lefferts - is subject to recurrent flooding. Aberdeen Road becomes impassable due to tidal flooding at virtually every high tide creating a delay in emergency response for both Matawan and Aberdeen Emergency Services.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Infrastructure improvement project</i>
<b>Action type</b>	<i>Roadway Elevation</i>
<b>Action description</b>	<i>Re-engineering of the roadway to include elevation above the level of the adjacent Matawan Creek.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Elevation of this roadway would provide uninterrupted emergency response and would allow access to the northwestern quadrant of the Borough without utilizing alternate routes. This would also provide a much needed detour route during the construction of the Lake Lefferts Dam on Ravine Drive (Community Action Matawan #1).. Elevation of this roadway would eliminate insurance claims for damage to vehicles. It would further eliminate the need for emergency response to rescue stranded or disabled motorists. This project would also allow this roadway to serve as a much needed detour route for the Lake Lefferts dam replacement project rather than spending funds for a temporary roadway which will be demolished upon completion of the new dam.(Community Action number Matawan #1). Potential losses avoided by the project are estimated to be in the range of roughly \$6million to \$10million.</i>
<b>Cost estimate</b>	<i>\$5 million</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits in the range of \$6million to \$10million and costs of \$5million.</i>
<b>Technical</b>	<i>Technically feasible. Flooding of roadway solved for the longterm; Community's problem of interrupted transportation and emergency response solved. Adequate detour route for Ravine Dr. during Lake Lefferts dam project.</i>
<b>Political</b>	<i>No apparent political issues.</i>
<b>Legal</b>	<i>Project would need County approval/contribution as Matawan Creek Bridge on Aberdeen Rd. is county owned and maintained. No other foreseen legal issues.</i>
<b>Environmental</b>	<i>Due to the proximity to Matawan Creek. DEP permits would be needed. No other environmental issues are foreseen.</i>
<b>Social</b>	<i>The proposed project will provide uninterrupted transportation at high tides for those residing in the northwestern portion of the Borough and those travelling to neighboring Aberdeen and Old Bridge Townships to access State Highway 35 and the Garden State Parkway.</i>
<b>Administrative capability</b>	<i>Administrative function will be handled by the Borough Administrator and Engineer</i>
<b>Local champion</b>	<i>Borough Department of Public Works, Emergency Services, OEM</i>
<b>Other community objectives</b>	<i>This project would further the Borough's proposed NJ Transit Village Redevelopment plan as Aberdeen Rd./High St.intersect with Main Street in the proposed redevelopment zone.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium priority as compared to the previous projects</i>
<b>Local planning mechanism</b>	<i>State DOT, Local Ordinances governing traffic and roadway construction.</i>
<b>Responsible party</b>	<i>Matawan Borough &amp; Monmouth County Engineers in conjunction with DPW and OEM</i>
<b>Potential funding sources</b>	<i>County, State or federal grant</i>
<b>Time line</b>	<i>As soon as funding is available, granted and received.</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward from the last version of the plan. Previously applied for HMGP funding.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Matawan Borough</i>
<b>Community action number</b>	<i>Matawan #4</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding, surge, extreme wind, hurricane and tropical storm, nor'easter, extreme temperatures, lightning</i>
<b>Risk finding</b>	<i>A need has been identified for auxiliary power to the Matawan Municipal Community Center/Borough Hall Complex as a result of Hurricane Sandy. Loss of power, continuity of government, community access to government and municipal complex during power loss.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure</i>
<b>Action type</b>	<i>Protect Critical Facilities</i>
<b>Action description</b>	<i>Provide auxiliary power to the Matawan Municipal Community Center-Borough Hall (201 Broad Street) to allow for continuity of government operations and public access to the Municipal Complex during a sustained loss of power. Having auxiliary power would also facilitate the use of the complex as a temporary shelter or warming/charging station during a declared state of emergency.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future assesty relying on power</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Government operations will no longer shut down upon a loss of power. Residents will have a location to go to (reception center) before transportation to a larger county shelter is completed. Residents will be afforded a warming/cooling and charging station during a large scale power outage. Losses avoided are estimated to be between \$500,000 and \$1 million per year.</i>
<b>Cost estimate</b>	<i>\$150,000 total (or, based on a useful life of 20 years for the generator, the annual costs would be about \$5,000 per year)</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Upon completion of this project, government operations woul remain intact during a power loss allowing residents access to essential government functions. This will also provide residents with the ability to vote (during an election), pay their taxes or utility bill or seek other muncpal services. Benefits are estimated to be between \$500,000 to 1 million per year and costs are estimated to be \$5,000.00 per year.</i>
<b>Technical</b>	<i>Technically feasible. Power loss at the Matawan Muncpal Communtiy Center (Borough Hall) would be solved upon completion of this project.</i>
<b>Political</b>	<i>This project is supported by the Matawan Borough Mayor and Council and both the Monmouth County and Matawan Offices of Emergency Management.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>No apparent environmental issues.</i>
<b>Social</b>	<i>Project would not negatively impact any particular social group but would positively impact all residents of the Borough.</i>
<b>Administrative capability</b>	<i>The Borough Administrator, Borough Engineer and OEM Coordinator would administer this project collectively.</i>
<b>Local champion</b>	<i>Monmouth County and Matawan Offices of Emergency Management</i>
<b>Other community objectives</b>	<i>Provide a higher level of uninterrupted government services to the residents of Matawan during a large scale, long term power outage.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Ordinances and Codes governing electrical improvements</i>
<b>Responsible party</b>	<i>Borough Engineer, Office of Emergency Management</i>
<b>Potential funding sources</b>	<i>Bonded funding, State, County, federal grant</i>
<b>Time line</b>	<i>As soon as funding is available, project would be put out to bid.</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>This project is a new action from the last version of the Plan. Funding was applied for under HMGP after Super Storm Sandy.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Middletown Township</i>
<b>Community action number</b>	<i>1 - Middletown Elevations</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Flooding, storm surge, wave action, hurricanes and tropical storms, nor'easters
<b>Risk finding</b>	Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. A substantial portion of Middletown lies within mapped storm surge hazard areas, including locations well inland of the Sandy Hook Bay shore, as well as areas along the Navesink River and its tributaries. During Hurricane Sandy, Middletown's Sandy Hook Bay communities of Port Monmouth, Belford, and Leonardo experienced storm surge flooding over a very large area generally north of Route 36 (though tidal flooding along Pews Creek and Compton Creek did extend south of Route 36). Communities in these areas were severely impacted. Along the Navesink and its tributaries, flooding tended to be more constrained to undeveloped floodplains and marina areas; however, along the meandering Swimming River, overbank flooding did affect some homes and businesses. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	Protect Structures
<b>Action description</b>	Elevate 248 structures determined to be substantially damaged
<b>Existing, future &amp;/or NA</b>	Existing
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Losses avoided by this project are estimated to be \$83 million based on information gathered from Sandy. FEMA BCA Tool, v 4.8 shows an annual benefit of \$967,903 per year.
<b>Cost estimate</b>	The cost of this project is estimated to be \$13,500,000. This is based upon an estimated cost of \$90,000 per elevation project.
<b>Cost effectiveness (i.e., benefit/cost)</b>	Benefit Cost Analysis using FEMA BCA Tool, v 4.8: The result for the while project is a positive benefit-cost ration of 2.77.
<b>Technical</b>	Elevation is technically feasible
<b>Political</b>	Our political leadership supports this type of project
<b>Legal</b>	While the municipality does not own the structures in question, we fully support the homeowners in moving forward
<b>Environmental</b>	No environmental impacts are anticipated as a result of elevating the homes
<b>Social</b>	No particular social group in our community is likely to be disproportionately impacted by this project
<b>Administrative capability</b>	Our municipality has the administrative capabilities to manage an elevation project
<b>Local champion</b>	Affected homeowners and businesses
<b>Other community objectives</b>	Elevating homes in flood hazard areas will represent a benefit to the community as a whole by reducing the emergency response, cleanup, and social costs inflicted by future flood events.
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	Funding. LOIs for HMPG programs have been submitted. The township has not received funding to date. Elevation continues to be a mitigation strategy.
<b>Responsible party</b>	State of New Jersey, Monmouth County, Township of Middletown
<b>Potential funding sources</b>	FEMA hazard mitigation grant fundings, Disaster Recovery Funding
<b>Time line</b>	5 years. Residents are applying direct to state for Disaster Recover Funding
<b>Reporting on Progress</b>	
<b>Action progress status</b>	Carried Over

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Middletown Township</i>
<b>Community action number</b>	<i>2 - Middletown Stream and Ditch Desilting, Dredging and Desnagging</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Flooding, hurricane and tropical storm, nor'easter, & fire hazards
<b>Risk finding</b>	Streams and ditches in flood hazard areas do not convey storm flows as efficiently as they should; this results in flooding in several areas. In addition to a flood hazard, accumulated dead vegetation poses a fire hazard. Invasive plant species are becoming prominent in wetland areas, thus decreasing storage capacities.
<b>Describing the Action</b>	
<b>Action category</b>	Natural systems protection
<b>Action type</b>	Protect and restore natural flood mitigation features
<b>Action description</b>	<p>Management of riparian buffers along rivers and streams and channel desnagging to preserve the function of natural drainage channels and floodplains. Wetlands maintenance &amp; removal of invasive plant species. Desilting and dredging of streams and ditches.</p> <p>Desilt and Desnag streams                      Waackaack Creek/ L.F. 12,500  Pew's Creek/ L.F. 10,500  Compton's Creek/L.F. 39,300  Ware Creek/L.F. 10,800  Wagner's Creek/L.F. 12,000  Claypit Creek/L.F. 14,400  Creek L.F. 19,200  of Stream Cleaning: 118,700 Linear Feet  removal rate 0.75 cu. vd. per linear foot of stream = 118,700 x 0.75 c.v./L.F. = 89,025 cu</p> <p style="text-align: right;">McClees Total Length Assumed silt</p>
<b>Existing, future &amp;/or NA</b>	Existing
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Losses avoided by this project are estimated to be \$20 million based on information gathered after Superstorm Sandy
<b>Cost estimate</b>	The cost of this project is estimated to be \$3,294,900.
<b>Cost effectiveness (i.e., benefit/cost)</b>	This projects is likely to be cost effective, with benefits of \$20 million and costs of \$3.2 million.
<b>Technical</b>	Excavation is technically feasible
<b>Political</b>	Our political leadership supports this type of project
<b>Legal</b>	This proposal is consistent FEMA program eligibility guidance, and local mitigation plans.
<b>Environmental</b>	Permit required for dredging.
<b>Social</b>	No particular social group in our community is likely to be disproportionately impacted by this project
<b>Administrative capability</b>	Our municipality has the administrative capabilities to manage an excavation project in conjunction with Monmouth County
<b>Local champion</b>	Residents in affected areas in Middletown support the township in moving forward
<b>Other community objectives</b>	To prevent blockages in our waterways. Mosquito control.
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	In the post Sandy environment more than stream and ditch maintenance. We need a high priority with other agencies including County Public Works to desilt & dredge streams & ditches.
<b>Responsible party</b>	Middletown Township (in conjunction with Monmouth County)
<b>Potential funding sources</b>	FEMA hazard mitigation grant funding streams (i.e., HMGP,PDM)
<b>Time line</b>	Management of riparian buffers along rivers and streams and channel desnagging, wetlands maintenance & removal of invasive plant species is an ongoing activity The larger desiltation portion of the project is contingent upon securing funding
<b>Reporting on Progress</b>	
<b>Action progress status</b>	Carried Over

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Middletown Township</i>
<b>Community action number</b>	<i>3-Middletown Slide Gate Port Monmouth</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Flooding, storm surge, hurricanes, tropical storms, & nor'easters
<b>Risk finding</b>	During extreme lunar tides, the flood protection provided by the newly constructed Wilson Ave slide gate is compromised and there is a tidal flow of water from Compton's Creek across Main Street into the residential properties between Main St. and Brainard Ave. The drainage system is then quickly inundated and the streets become flooded, negating the intended positive effects of the Wilson Ave flood gate.
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	Upgrade of stormwater management and flood control structures
<b>Action description</b>	Construct and install an additional automatic tide-activated electrically-actuated slide gate device at the Main Street drainage outfall to Compton's Creek.
<b>Existing, future &amp;/or NA</b>	Existing and future development
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Losses avoided by this project are estimated to be \$6.7 million based on information gathered after Superstorm Sandy.
<b>Cost estimate</b>	The cost of this project is estimated to be \$170,000.00
<b>Cost effectiveness (i.e., benefit/cost)</b>	This projects is likely to be cost effective, with benefits of \$6.7 million and costs of \$170,000.
<b>Technical</b>	Construction is technically feasible
<b>Political</b>	Our political leadership supports this type of project
<b>Legal</b>	No apparent legal issues.
<b>Environmental</b>	No environmental impacts are anticipated as a result of construction and installation
<b>Social</b>	No particular social group in our community is likely to be disproportionately impacted by this project
<b>Administrative capability</b>	Our municipality has the administrative capabilities to manage a construction and installation project
<b>Local champion</b>	affected homeowners, and businesses support the construction and installation of the gate
<b>Other community objectives</b>	We are continuing to review shoreline protection in the post Sandy environment regarding maintenance and upgrades.
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	We continue to monitor and maintain flood gates during normal tidal conditions.
<b>Responsible party</b>	Mayor and Township Committee
<b>Potential funding sources</b>	FEMA hazard mitigation grant funds
<b>Time line</b>	5 years
<b>Reporting on Progress</b>	
<b>Action progress status</b>	New

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Middletown Township</i>
<b>Community action number</b>	<i>4- Stormwater Pumps</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Flooding, hurricanes and tropical storms, nor'easters
<b>Risk finding</b>	Stormwater management infrastructure does not convey storm flows as efficiently as it should (including areas such as the Port Monmouth, Leonardo, and Belford sections)
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	Upgrade of stormwater management structures and facilities
<b>Action description</b>	-Installing temporary/portable pumps in certain areas will allow stormwater from major nuisance flooding events in the Port Monmouth subject area and other areas within the Township where flooding is common such as the Leonardo and Belford sections. The goal is to pump stormwater from the system, discharging into Pew's Creek. Once the water level in the system reaches a certain elevation below existing street elevations, pumps would be activated and system water would be discharged into the creek. Slide gates would be closed during the pumping to prevent stormwater from re-entering the drainage systems.
<b>Existing, future &amp;/or NA</b>	Existing and future
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Losses avoided by this project can be as high as \$10 million based on damages in these areas after Superstorm Sandy
<b>Cost estimate</b>	The cost of this project is estimated to be \$110,000
<b>Cost effectiveness (i.e., benefit/cost)</b>	This projects is likely to be cost effective, with benefits of \$10 million and costs of \$110,000.
<b>Technical</b>	The project is technically feasible with existing staff and vehicles capable of moving the pumps. The goal is to pump stormwater from the system, discharging into Pew's Creek. Once the water level in the system reaches a certain elevation below existing street elevations, pumps would be activated and system water would be discharged into the creek. Slide gates would be closed during the pumping to prevent stormwater from re-entering the drainage systems.
<b>Political</b>	Our political leadership supports this type of project
<b>Legal</b>	No apparent legal issues.
<b>Environmental</b>	No environmental impacts are anticipated as a result of temporary usage and installation
<b>Social</b>	No particular social group in our community is likely to be disproportionately impacted by this project
<b>Administrative capability</b>	Our municipality has the administrative capabilities to manage the 2 portable pumps
<b>Local champion</b>	affected homeowners, and businesses
<b>Other community objectives</b>	Prototecting lives and property from
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	To eliminate tidal and nuisance flooding
<b>Responsible party</b>	Mayor and Township Committee
<b>Potential funding sources</b>	FEMA HMPG, Township, County of Monmouth, State of New Jersey
<b>Time line</b>	5 years
<b>Reporting on Progress</b>	
<b>Action progress status</b>	Carried forward

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Middletown Township</i>
<b>Community action number</b>	<i>5-Generator for Fire Companies &amp; First Aid Squads</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	All
<b>Risk finding</b>	Our Fire Companies & First Aid Squads have identified the need to install standby generators at their buildings to remain operational during emergencies.
<b>Describing the Action</b>	
<b>Action category</b>	Protect Structure and Infrastructure Projects
<b>Action type</b>	Protect critical facilities
<b>Action description</b>	Install generators for fire companies & first aid squad buildings. Reduce or eliminate loss of service at 3 critical facilities. Installation of standby generators will improve reponse time to service calls during emergencies and improve safety conditions for the responders utilizing the buildings. (For example, crucial time was often lost while responders were working in the dark manually opening bay doors.)
<b>Existing, future &amp;/or NA</b>	NA
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Reduce or eliminate loss or reduction of service at critical facilities. Potential losses include property and life. By maintaining continuity of operations at critical facilities during power failures, public health and safety benefits will be recognized. While these benefits are hard to quantify, we feel that if an exact dollar amount could be assigned, it would certainly be at least equal to the project's annual cost of \$2,500.
<b>Cost estimate</b>	<b>First cost = \$800,000. Useful life = # 15 years. Annual cost = \$2,500.</b>
<b>Cost effectiveness (i.e., benefit/cost)</b>	The benefit of this project is to provide consistent emergency services to homeowners and businesses despite loss of power and other emergencies.
<b>Technical</b>	Technically feasible
<b>Political</b>	Our political leadership supports this type of project
<b>Legal</b>	No legal issues anticipated
<b>Environmental</b>	No environmental impacts are anticipated
<b>Social</b>	No particular social group in our community is likely to be disproportionately impacted by this project
<b>Administrative capability</b>	Our municipality has the administrative capabilities to manage this project
<b>Local champion</b>	affected homeowners and businesses
<b>Other community objectives</b>	Fire Stations & First Aid Squads that remain fully operational during emergencies can also be of greater assistance to the community by serving as short-term shelters, warming and charging stations, and points of distribution for emergency supplies.
<b>Implementing the Action</b>	
<b>Priority</b>	Medium
<b>Local planning mechanism</b>	The project is designed to provide the labor and materials necessary for the upgrade of the delivery of emergency power to the facility through the purchase and installation of an emergency generator unit.
<b>Responsible party</b>	HMPG Energy Allocation - no match required.
<b>Potential funding sources</b>	FEMA hazard mitigation grant funding
<b>Time line</b>	5 years
<b>Reporting on Progress</b>	
<b>Action progress status</b>	New

<b>Action Worksheet Relocation</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-Jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Township of Middletown</i>
<b>Community action number</b>	<i>6 - Relcating Fire Companies in Flood Plain</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Flooding, storm surge, wave action, hurricanes and tropical storms, nor'easters
<b>Risk finding</b>	Critical facilities located in the communiu are prone to flooding, with their main floor elevations below current BFEs. This includes two fire houses A substantial portion of Middletown lies within mapped storm surge hazard areas, including locations well inland of the Sandy Hook Bay shore, as well as areas along the Navesink River and its tributaries. During Hurricane Sandy, Middletown's Sandy Hook Bay communities of Port Monmouth, Belford, and Leonardo experienced storm surge flooding over a very large area generally north of Route 36 (though tidal flooding along Pews Creek and Compton Creek did extend south of Route 36). Communities in these areas were severely impacted. Along the Navesink and its tributaries, flooding tended to be more constrained to undeveloped floodplains and marina areas; however, along the meandering Swimming River, overbank flooding did affect some homes and businesses. Sea level rise and climate change will contribute to more frequent and
<b>Describing the Action</b>	
<b>Action category</b>	Structure/infrastructure projects
<b>Action type</b>	Protect Structures
<b>Action description</b>	Relocate Critical Facilities - Fire Companies to locations out of floodplain
<b>Existing, future &amp;/or NA</b>	Addresses existing structures
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Fire companies's costs to repair flooded properties would be reduced if not eliminated. Damages from Superstorm Sandy is estimated to be 90,000 per Fire Company
<b>Cost estimate</b>	To be determined. Cost would include purchase land outside the flood plan that is still within the reponse area and construction of a new building
<b>Cost effectiveness (i.e., benefit/cost)</b>	Fire houses would be able to operate during flood events, which will improve response time to service calls.
<b>Technical</b>	Technically feasible. Suitable land would be to be acquired.
<b>Political</b>	Fire Company membership and community could be oppose relocation of Fire House. Reduction of the total number of fire houses within the township would be considered further. Several stations in this area are fairly close to each other. Adjusting response area of remaining 9 firehouses would be considered. Impact on township insurability to be considered.
<b>Legal</b>	No apparent legal issues.
<b>Environmental</b>	No appraent environmental issues
<b>Social</b>	No appraent affect on any social group
<b>Administrative capability</b>	It is unlikely the Fire Companies have sufficient in-house administrative capabilities. Assistance from contracted services.
<b>Local champion</b>	Possibly the Fire Department
<b>Other community objectives</b>	Fire stations that remain fully functional can also be of greater assistance to the community by serving as short-term shelters, warming and charging stations and points of distribution for emergency supplies
<b>Implementing the Action</b>	
<b>Priority</b>	Low
<b>Local planning mechanism</b>	Emergency Planning
<b>Responsible party</b>	Each Fire Company
<b>Potential funding sources</b>	HMGP, RFC, SRL and FMA. For 25% local match, in-kind services.
<b>Time line</b>	5 years
	Reporting On Progress
<b>Action progress status</b>	New action proposed

## Action Worksheet

<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Township of Millstone</i>
<b>Community action number</b>	<i>Township of Millstone - Action No. 1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Hydrologic Hazards - Flood</i>
<b>Risk finding</b>	<i>Streams and ditches, and stormwater management infrastructure, do not convey stormwater runoff as efficiently as they should; this results in flooding in several areas.</i>
<b>Evaluating the Action</b>	
<b>Action category</b>	<i>Structure/ Infrastructure</i>
<b>Action type</b>	<i>Drainage Improvements</i>
<b>Action description</b>	<i>The Township improves their stormwater system every year with their yearly roadway program. Develop mitigation steps to reduce damage and losses due to flooding through control of stormwater runoff and more efficient drainage and discharge to five major streams. Provides larger piping capacity and reduces sediment/ debris within watershed providing better overall volume/ flow throughout the stream</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future development</i>
<b>Losses avoided (i.e., benefits)</b>	<i>Annual flood losses in Millstone are typically on the order of \$100,000 to \$250,000. We estimate the proposed project could save about \$250,000 per year in flood losses.</i>
<b>Cost estimate</b>	<i>\$80,000 per year for annual road program</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Increasing piping will help eliminate stormwater flooding and debris/sediment within streams allowing proper flow of stormwater runoff. We expect that this will be cost effective because losses avoided are estimated to be roughly \$250,000 while the costs are less (\$80,000 per year)</i>
<b>Technical</b>	<i>Technically feasible. Will help remove stormwater runoff more effectively and Eco grates will eliminate debris from enter into the watershed.</i>
<b>Political</b>	<i>No apparent political issues.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>No adverse environmental effects. Will help improve flood control and debris within watershed.</i>
<b>Social</b>	<i>Township of Millstone residents.</i>
<b>Administrative capability</b>	<i>Need at least 3 people to administer (After technical assistance from the State)</i>
<b>Local champion</b>	<i>Residents of Millstone, Township Environmental Commission</i>
<b>Other community objectives</b>	<i>Municipal Stormwater Management Regulation Program</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Municipal Stormwater Management Regulation Program</i>
<b>Responsible party</b>	<i>Township - Engineer</i>
<b>Potential funding sources</b>	<i>HMGP, RFC, SRL and FMA. For 25% local match, in-kind services</i>
<b>Time line</b>	<i>Ongoing as funds are available</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Ongoing action from 2009 Plan</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Township of Millstone</i>
<b>Community action number</b>	<i>Township of Millstone - Action No. 2</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Natural Hazards - Wildfire and Extreme Wind (periods of high wind and during storm events such as hurricanes, tropical storms, thunderstorms, and nor'easters)</i>
<b>Risk findings</b>	<i>Much of Millstone Township is located in mapped moderate to extreme wildfire risk areas. Dead and hazardous trees exist at various locations throughout the town presenting fuel sources for wildfire. In addition to the inherent risks associated with dead and hazardous trees in moderate and extreme wildfire risk areas, dead and hazardous trees are more likely to fall as a result of wind during various types of storms. Downed trees block roadways and take down powerlines as they fall. Blocked roadways hamper transportation of all types; most importantly, emergency services. Power outages hamper communications (particularly emergency services type); and, because the Township still operates on private wells and septic systems, it is totally dependent on electric power for running water and other basic toileting and bathing needs. Finding workable solutions to these problems continue to be Millstone's biggest challenges.</i>
<b>Action category</b>	<i>Natural Systems Protection</i>
<b>Action type</b>	<i>Fuel management (right-of-way clearing)</i>
<b>Action description</b>	<i>Removal of dead and hazardous trees along Township roads</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future development</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Removes dead trees from right-of-way, prevents fires from jumping roads and into adjacent subdivisions. From 2010 census average home value was \$549,700. Also reduces the likelihood of power outages from downed trees falling on powerlines. Average annual losses estimated in excess of \$5,000; plus unquantifiable life safety benefits associated with maintaining emergency services communications and transportation.</i>
<b>Cost estimate</b>	<i>\$5,000 per year for annual removal program</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Likely to be cost effective. Benefits estimated in excess of \$5,000 plus unquantifiable life safety benefits associated with maintaining emergency services communications and transportation. Costs estimated at only about \$5,000 per year.</i>
<b>Technical</b>	<i>Technically feasible. Will help remove dead trees from the roadway, additionally providing a safe roadway access for emergency vehicles.</i>
<b>Political</b>	<i>No apparent political issues.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>No adverse environmental effects. Will help improve right-of-way access without any environmental impact.</i>
<b>Social</b>	<i>Township of Millstone residents.</i>
<b>Administrative capability</b>	<i>Need at least 3 people to administer (After technical assistance from the State)</i>
<b>Local champion</b>	<i>Residents of Millstone, Millstone Shade Tree &amp; Fire Commissions</i>
<b>Other community objectives</b>	<i>Shade Tree Commission safety program</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Shade Tree Commission safety program</i>
<b>Responsible party</b>	<i>Township - Engineer</i>
<b>Potential funding sources</b>	<i>HMGP, RFC, SRL and FMA. For 25% local match, in-kind services</i>
<b>Time line</b>	<i>Ongoing as funds are available</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Ongoing action from 2009 Plan</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Monmouth Beach</i>
<b>Community action number</b>	<i>1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
<b>Risk finding</b>	<i>The elevation of the existing retaining wall at Shorelands Park is not high enough, and when it is overtopped, residential structures incur significant damage, and flooding at the park results in erosion, litter and debris, and changes to the park's topography. Monmouth Beach is located on a narrow strip of land just south of Sea Bright. All of Monmouth Beach is in an area mapped as potentially susceptible to storm surge. Most of Monmouth Beach was inundated during Hurricane Sandy; a great deal of this was back bay flooding which this retaining wall protects.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural</i>
<b>Action type</b>	<i>Elevate existing sunken retaining wall</i>
<b>Action description</b>	<i>The existing retaining wall will be elevated to a height of fifteen (15) feet to protect the park and its existing amenities from flood related damage</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The proposed elevation of the retaining wall will mitigate damages associated with storm surge overtopping the existing wall and destroying homes. It will also protect existing public infrastructure, mitigate flooding at the park, reduce changes to the park's topography related to erosion and reduce litter and debris left by tidal flooding and storm surges. Losses avoided could range in the hundreds of millions of dollars</i>
<b>Cost estimate</b>	<i>\$150,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is expected to be cost effective, with potential benefits in the hundreds of millions of dollars and cost of only \$150,000.</i>
<b>Technical</b>	<i>This mitigation project is technically feasible</i>
<b>Political</b>	<i>This project was advised by commissioners and the mayor</i>
<b>Legal</b>	<i>The community does have the legal authority to implement this project</i>
<b>Environmental</b>	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
<b>Social</b>	<i>There are no social impacts from this project on the community</i>
<b>Administrative capability</b>	<i>The community does have the personnel and administrative capability to implement this action as well as maintain it. Borough would have to bid the project and construction</i>
<b>Local champion</b>	<i>Commissioners and the mayor</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
<b>Responsible party</b>	<i>Borough Administrator</i>
<b>Potential funding sources</b>	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
<b>Time line</b>	<i>Dependent upon municipality securing grant funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New project added since the last version of the plan was prepared</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Monmouth Beach</i>
Community action number	2
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
Risk finding	<i>Flooding occurs in the residential area around the pump station at the northern terminus of Monmouth Parkway. Monmouth Beach is located on a narrow strip of land just south of Sea Bright. All of Monmouth Beach is in an areas mapped as potentially susceptible to storm surge. Most of Monmouth Beach was inundated during Hurricane Sandy; a great deal of this was back bay flooding.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>Floodproofing Pump Station</i>
Action description	<i>Drainage improvemGnts to mitigate storm-related flooding</i>
Existing, future &/or NA	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The proposed storm water pump station will serve to mitigate storH-related and tidal flooding in the project area, which will limit damage to public infrastructure and private property while also allowing for adequate emGrgency access during storms. Losses avoided could range in the millions of dollars in damages caused by flood waters to affected homes and infastructure</i>
Cost estimate	<i>\$75,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits estimated to be on the order of the millions of dollars, but costs of only about \$75,000.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by comissioners and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, staæ, and local regulations</i>
Social	<i>There are no social impacts from this project on the community</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain i,. Borough would have to bid the project and construction</i>
Local champion	<i>Commisioners and the mayor</i>
Other community objectives	<i>Capital ImprovemGnts</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Ma,gation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Borough Administrator</i>
Potential funding sources	<i>FEMA Hazerd Mitigation Grant, Borough funding</i>
Time line	<i>Ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Monmouth Beach</i>
Community action number	3
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
Risk finding	<i>Mmmuth Beach is located on a narrow strip of land just souG of Sea Brigdt. All of Mmmuth Beach is in an areas mapped as potentially susceptible to storm surge. Mmst of Mmmuth Beach was inundated during Hurricane Sandy; a great deal of Gdis was back bay flooding. Sea level rise and climate vdange will contribute to more frequent and severe flooding and surge events over a larger area. Climate vdange will contribute to more frequent and severe weaGder events.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>Home Elevation</i>
Action description	<i>Elevating of approx. 1991 domes to new FEMA FIRM maps</i>
Existing, future &/or NA	<i>Protecting existing structures</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The proposed mitigation will result in reduced future storm damages to residential structures, personal property and protect public health and safety during future events. The proposed mitigation activities could potentially result in a \$1,194,693,550 reducton in future storm damages to residential structures and personal property(based on 1991 homes at average market value of \$600,000). Per DCA the borough sustained 52,959,000 in recordable loss due to Hurricane Sandy</i>
	<i>\$297,050,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits of elevating estimated to be well in excess of project costs - particularly for the subset of most at-risk buildings.</i>
Technical	<i>This mitigation project is technically feasible</i>
Political	<i>This project was advised by comissioners and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>Property owners may need to relocate while the home raising is implemented</i>
Administrative capability	<i>The community does have the personnel and homeowners will maintain projects</i>
Local champion	<i>Commisioners and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents, additionally current code requires substantially damaged to elevate home</i>
Responsible party	<i>Homeowners and/or Borough Administrator</i>
Potential funding sources	<i>Private, ICC or FEMA SRL, HUD RREM</i>
Time line	<i>Dependent upon municipality securing residential funding and code compliance, a start date has not been identified</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Monmouth Beach</i>
Community action number	4
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
Risk finding	<i>'Monmouth Beach is located on a narrow strip of land just south of Sea Bright. All of Monmouth Beach is in an areas mapped as potentially susceptible to storm surge. Most of Monmouth Beach was inundated during Hurricane Sandy; a great deal of this was back bay flooding. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>Structure Elevation</i>
Action description	<i>Elevating of six municipal structures)Police building, Borough Hall, Cultural Center, Library, First Aid, and Fire House) to new FEMA FIRh maps</i>
Existing, future &/or NA	<i>Protecting existing structures</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The proposed mitigation will result in reduced future storm damages to municipal structures. These municipal structures are crucial to the protection of the health and safety of the residents. Losses avoided could range in the hundreds of thousands or more every year.</i>
Cost estimate	<i>\$1,500,000 )\$250,000 per structure)</i>
Cost effectiveness (i.e., benefit/cost)	<i>Tdis project is likely to be cost effective, with benefits of elevating estimated to be in excess of project costs.</i>
Technical	<i>This mitigation project is technically feasible</i>
Political	<i>This project was advised by comissioners and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>Municipality workers may need to relocate while the structural elevation is implemented</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the project and construction</i>
Local champion	<i>Commisioners and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>Higd</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents, additionally current code requires substantially damaged to elevate home</i>
Responsible party	<i>Homeowners and/or Borough Administrator</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
Time line	<i>Dependent upon municipality securing funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Monmouth Beach</i>
<b>Community action number</b>	5
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
<b>Risk finding</b>	<i>The massive storm surges from Hurricane Sandy carried water over the existing Sea Wall and caused severe flooding and significant damages to both private residences and commercial business throughout the Borough. Monmouth Beach is located on a narrow strip of land just south of Sea Bright. All of Monmouth Beach is in an area mapped as potentially susceptible to storm surge. Most of Monmouth Beach was inundated during Hurricane Sandy; a great deal of this was back bay flooding.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural</i>
<b>Action type</b>	<i>Raising and Re-Grouting of Seawall</i>
<b>Action description</b>	<i>The Borough is proposing raising the existing Sea Wall three (3) feet and carrying out re-grouting where necessary</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Losses avoided could range in the magnitude of millions to tens of millions of dollars per year</i>
<b>Cost estimate</b>	<i>\$2,625,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits estimated to be well in excess of project costs.</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by commissioners and the mayor</i>
<b>Legal</b>	<i>The community does have the legal authority to implement this project</i>
<b>Environmental</b>	<i>Environmental concerns such as disrupting the natural shoreline processes will be considered in the design and all federal, state, and local regulations will be followed</i>
<b>Social</b>	<i>There are no social impacts from this project on the community</i>
<b>Administrative capability</b>	<i>The community does have the personnel and administrative capability to implement this action as well as maintain it. Borough would have to bid the project and construction</i>
<b>Local champion</b>	<i>Commissioners and the mayor</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
<b>Responsible party</b>	<i>Borough Administrator</i>
<b>Potential funding sources</b>	<i>FEMA Hazard Mitigation Grant, Borough funding, Army Core of Engineers</i>
<b>Time line</b>	<i>Dependent upon municipality securing grant funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action added since the last version of the plan</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Monmouth Beach</i>
<b>Community action number</b>	6
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
<b>Risk finding</b>	<i>The Borough's drainage system does not currently accommodate typical periods of high runoff; this causes flooding in locations such as Johnson St./Anderson St./Drew Ct./Valentine St.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural</i>
<b>Action type</b>	<i>Drainage Improvement</i>
<b>Action description</b>	<i>Installation of stormwater systems including inlets, manholes and piping for low lying areas such as Johnson St./Anderson St./Drew Ct./Valentine St.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The proposed project will result in reduced future flood damages to areas of Johnson St./Anderson St./Drew Ct./Valentine St. Losses avoided are estimated to be roughly \$1,500,000</i>
<b>Cost estimate</b>	<i>\$1,000,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits of \$1,500,000 and a cost of only \$1,000,000</i>
<b>Technical</b>	<i>This project is technically feasible</i>
<b>Political</b>	<i>This project was advised by commissioners and the mayor</i>
<b>Legal</b>	<i>The community does have the legal authority to implement -his project</i>
<b>Environmental</b>	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations. DEP permits may be required.</i>
<b>Social</b>	<i>There are no social impacts from implementing -his action</i>
<b>Administrative capability</b>	<i>The community does have the personnel and administrative capability implement -his action as well as maintain it. Borough would have to bid the project and construction. Borough may need to get easements.</i>
<b>Local champion</b>	<i>Commissioners and the mayor</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents, additionally current code requires substantially damaged to elevate home</i>
<b>Responsible party</b>	<i>Homeowners and/or Borough Administrator</i>
<b>Potential funding sources</b>	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
<b>Time line</b>	<i>Dependent upon municipality securing funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New Action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Monmouth Beach</i>
<b>Community action number</b>	<i>7 (New Action Number)</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
<b>Risk finding</b>	<i>The massive storm surges from Hurricane Sandy carried water over the existing Sea Wall and caused severe flooding and significant damages to both private residences and commercial business throughout the Borough. Monmouth Beach is located on a narrow strip of land just south of Sea Bright. All of Monmouth Beach is in an areas mapped as potentially susceptible to storm surge. Most of Monmouth Beach was inundated during Hurricane Sandy.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural</i>
<b>Action type</b>	<i>Seawall construction</i>
<b>Action description</b>	<i>Expand the existing seawall to fill in the approx 675 LF gap between Valentine St and the south end of the Bathing Pavilion where the existing seawall is buried.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Losses avoided could range in the magnitude of \$5,000,000 to \$7,500,000.</i>
<b>Cost estimate</b>	<i>\$10,000,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits estiamted to be well in excess of project costs.</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by comissioners and the mayor</i>
<b>Legal</b>	<i>The community does have the legal authority to implement this project</i>
<b>Environmental</b>	<i>Environmental concerns such as disrupting the natural shoreline processes will be considered in the design and all federal, state, and local regulations will be followed</i>
<b>Social</b>	<i>There are no social impacts from this project on the community</i>
<b>Administrative capability</b>	<i>The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the project and construction</i>
<b>Local champion</b>	<i>Commisioners and the mayor as well as residents located on the west side of Ocean Ave.</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
<b>Responsible party</b>	<i>Borough Administrator</i>
<b>Potential funding sources</b>	<i>FEMA Hazard Mitigation Grant, Borough funding, Army Core of Engineers</i>
<b>Time line</b>	<i>Dependent upon municipality securing grant funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action added since the last version of the plan</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Neptune City</i>
<b>Community action number</b>	<i>Borough of Neptune City - Action No. 1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, storm surge, hurricane &amp; tropical storm, nor'easter</i>
<b>Risk finding</b>	<i>Piped streams and storm water management infrastructure, do not convey stormwater runoff as efficiently as they should; this results in flooding in several areas. Most of the Borough is in areas mapped as potentially susceptible to storm surge. Thankfully, during Hurricane Sandy, the inundation area was limited fairly close to the Shark River. Some areas inundated during Sandy included: East End Ave., Windsor Ct., Route 35, and Steiner Ave. between Route 35 and 3rd Ave. Drainage system does not efficiently convey stormwater runoff; this results in flooding in several areas. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.</i>
<b>Action category</b>	<i>Structure/ Infrastructure</i>
<b>Action type</b>	<i>Drainage Improvements</i>
<b>Action description</b>	<i>The Borough improves their stormwater system every year with their yearly roadway program. Develop mitigation steps to reduce damage and losses due to flooding through control of stormwater runoff and more efficient drainage and discharge to Shark River. Provides larger piping capacity and reduces sediment/ debris within watershed providing better overall volume/ flow throughout the system. The Borough has identified the following key areas; Evergreen, East End Ave, Boston Rd, Rt35/3rd Ave and Windsor Ct.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future development</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Annual flood losses in Neptune City are typically on the order of \$100,000 to \$250,000. We estimate the proposed project could save about \$250,000 per year in flood losses.</i>
<b>Cost estimate</b>	<i>\$80,000 per year for annually road program per each location</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Increasing piping will help eliminate stormwater flooding and debris/sediment within system allowing proper flow of stormwater runoff. We expect that this will be cost effective because losses avoided are estimated to be roughly \$250,000 per year while the costs are less (\$80,000 per year)</i>
<b>Technical</b>	<i>Technically feasible. Will help remove stormwater runoff more effectively and Eco grates will eliminate debris from enter into the watershed.</i>
<b>Political</b>	<i>No apparent political issues.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>No adverse environmental effects. Will help improve flood control and debris within watershed.</i>
<b>Social</b>	<i>Borough of Neptune City residents.</i>
<b>Administrative capability</b>	<i>Need at least 3 people to administer (After technical assistance from the State)</i>
<b>Local champion</b>	<i>Residents of Neptune City, Shark River Environmental Commission</i>
<b>Other community objectives</b>	<i>Municipal Stormwater Management Regulation Program</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Municipal Stormwater Management Regulation Program</i>
<b>Responsible party</b>	<i>Borough - Engineer</i>
<b>Potential funding sources</b>	<i>HMGP, RFC, SRL and FMA. For 25% local match, in-kind services</i>
<b>Time line</b>	<i>Ongoing as funds are available</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Neptune City</i>
<b>Community action number</b>	<i>Borough of Neptune City - Action No. 2</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, storm surge, hurricane &amp; tropical storm, nor'easter</i>
<b>Risk finding</b>	<i>Power outages have been frequent occurrences in the Borough. During severe storms, this impacts public buildings and disrupts local government operations and does not allow the Borough to shelter its emergency personnel. During storm events it is critical to maintain emergency services throughout the Borough. To maintain these services emergency power is needed until primary power source is restored.</i>
<b>Action category</b>	<i>Structure/ Infrastructure</i>
<b>Action type</b>	<i>Emergency Generators</i>
<b>Action description</b>	<i>To maintain police, fire and medical service throughout the municipality, the Borough seeks to provide temporary power for Borough Hall, the Fire Station, and the School. The Office of Emergency Management and a Central Command is within Borough Hall. Likewise, the Fire House is utilized by the EMS employees, where as the school is utilized as a evacuation center for residents in need of safety.</i>
<b>Existing, future &amp;/or NA</b>	<i>n/a</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Loss of critical services and possible potential loss of life if services can not function properly to aid residents. Providing temporary power to critical services will avoid potential loss of life to those residents in need. Losses avoided over the life of each generator are unquantifiable, but are estimated to be well in excess of total project costs.</i>
<b>Cost estimate</b>	<i>\$253,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits well in excess of project costs.</i>
<b>Technical</b>	<i>Technically feasible. Will provide critical power until primary power is restored.</i>
<b>Political</b>	<i>No apparent political issues.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>No adverse environmental effects.</i>
<b>Social</b>	<i>Borough of Neptune City residents.</i>
<b>Administrative capability</b>	<i>Need at least 3 people to administer (After technical assistance from the State)</i>
<b>Local champion</b>	<i>Residents of Neptune City</i>
<b>Other community objectives</b>	<i>Will provide services in accordance with the Office of Emergency Management duties.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Office of Emergency Management Program</i>
<b>Responsible party</b>	<i>OEM Director</i>
<b>Potential funding sources</b>	<i>HMGP, RFC, SRL and FMA. For 25% local match, in-kind services</i>
<b>Time line</b>	<i>Ongoing as funds are available</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward from the last version of the plan</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Neptune City</i>
Community action number	<i>Borough of Neptune City - Action No. 3</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, storm surge, hurricane &amp; tropical storm, nor'easter</i>
Risk finding	<i>During storm events it is critical to maintain sanitary services throughout the Borough. The pump station,s continuous operation during storm events is paramount to the communities, health and welfare. The ability to provide continuous sanitation service during a storm event is critical to maintaining the communities, health and limiting the potential viral ougbreaks associated with poor sanitation conditions.</i>
Action category	<i>Structure/ Infrastructure</i>
Action type	<i>storm surge mitigation/flood proofing</i>
Action description	<i>The conditions affecting the Sanitary Pump Station can be described as extreme wind, flooding, and storm surge. These conditions are associated with conditions that occur during a hurricane storm event along a coast. Non-sanitary conditions pose a critical health hazerd. While no one has been killed or become deathly ill from the sanitary pump station being offline, the fact remains that non-sanitary conditions pose a direct health concern for the immediate municipality and surrounding hospitals/ residents within the adjoining area. The Borough proposes to raise the sewer pumps within the building and to water proof the building to mitigate any future damage.</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Loss of critical services and possible potential loss of life if services can not function propoerly to aid residents.Providing flooding proofing and elavation of equipment is critical to maintaining essential services. Losses avoided are unquantifiable, but are anticipated to be well in excess of total project costs.</i>
Cost estimate	<i>\$47,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with unquantifiable benefits expected to be well in excess of project costs of \$47,000.</i>
Technical	<i>Technically feasbile. Will provide critical services during storm events</i>
Political	<i>No apparent political issues.</i>
Legal	<i>No apparent legal issues.</i>
Environmental	<i>No adverse environmental effects.</i>
Social	<i>Borough of Neptune City residents.</i>
Administrative capability	<i>Need at least 3 people to administer (After technical assistance from the State(</i>
Local champion	<i>Residents of Neptune City</i>
Other community objectives	<i>Will provide services in accordance with the Office of Emergency Management duties.</i>
<b>Implementing the Action</b>	
Priority	<i>Hugh</i>
Local planning mechanism	<i>Office of Emergency Management Program</i>
Responsible party	<i>Borough Engineer</i>
Potential funding sources	<i>HMGP, RFC, SRL and FMA. For 25% local match, in-kind services</i>
Time line	<i>Ongoing as funds are available</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New action.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Neptune City</i>
Community action number	<i>Borough of Neptune City - Action No. 2</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, storm surge, hurricane &amp; tropical storm, nor'easter</i>
Risk finding	<i>During storm events it is critical to maintain emergency equipment throughout the Borough. The OEM operation during storm events is paramount to the communities' health and welfare. The ability to provide emergency services during a storm event is critical to maintaining the communities' health and safety.</i>
Action category	<i>Structure/ Infrastructure</i>
Action type	<i>Building Structure for OEM Equipment</i>
Action description	<i>To maintain police, fire and medical EMS services throughout the municipality, the Borough seeks to provide a centralizu building "AKA Safe House" for critical OEM equipment. Currently this equipment is stored outside and subject to the daily elements which damages the effectiveness equipment in emergency events.</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Loss of critical services and possible potential loss of life if services can not function propoerly to aid residents. Providing OEM Equipment building is essential for equipment maintenance and keep a 'Steady State of Readiness'. Losses avoided are unquantifiable but are expected to be in excess of annual project costs.</i>
Cost estimate	<i>\$200,000 (based on a useful life of 50 years for the buidling, this is equal to \$18,000 per year of annual costs).</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective with unquantifiable annual benefits expected to be in excess of \$18,000 per year of costs.</i>
Technical	<i>Technically feasbile. Will provide centralizu staging area for critical services during storm events</i>
Political	<i>No apparent political issues.</i>
Legal	<i>No apparent legal issues.</i>
Environmental	<i>No adverse environmental effects.</i>
Social	<i>Borough of Neptune City residents.</i>
Administrative capability	<i>Need at least 3 people to administer (After technical assistance from the State)</i>
Local champion	<i>Residents of Neptune City</i>
Other community objectives	<i>Will provide services in accordance with the Office of Emergency Management duties.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Office of Emergency Management Program</i>
Responsible party	<i>Borough Engineer and OEM Director</i>
Potential funding sources	<i>Hk GP, RFC, SRL and FMA. For 95% local match, in-kind services</i>
Time line	<i>Ongoing as funds are available</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New action.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Neptune City</i>
<b>Community action number</b>	<i>Borough of Neptune City - Action No. 5</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, storm surge, hurricane &amp; tropical storm, nor'easter</i>
<b>Risk finding</b>	<i>During storm events it is critical to provide showers and temporary sleeping facilities for emergency personnel and evacuated residents. The OEM operation during storm events is paramount to the communities' health and welfare. The ability to provide emergency services during a storm event is critical to maintaining the communities, health and safety.</i>
<b>Action category</b>	<i>Structure/ Infrastructure</i>
<b>Action type</b>	<i>Building Improvements to Key Critical Buildings</i>
<b>Action description</b>	<i>To maintain police, fire and medical EMS services throughout the municipality, the Borough seeks to provide key sleeping and shower facilities to emergency personnel and evacuated residents. The Borough seeks to provide the proper facilities to address these needs and provide the ability during a storm event. Three key buildings within the Borough have been identified within the action plan: Borough Hall, Fire Station and the Elementary School. Equipment and building upgrades are needed to ensure these facilities can meet emergency needs.</i>
<b>Existing, future &amp;/or NA</b>	<i>n/a</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Loss of critical services and evacuation facilities are needed to avoid possible potential loss of life of residents. Providing OEM facilities in key buildings is essential for a 'Steady State of Readiness'. Losses avoided are unquantifiable; however, annual losses avoided are estimated to be in excess of annual project costs.</i>
<b>Cost estimate</b>	<i>\$700,000 (based on a useful life of 50 years, this is \$14,000 per year in annual costs)</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with unquantifiable annual benefits expected to be in excess of annual project costs of \$14,000 per year.</i>
<b>Technical</b>	<i>Technically feasible. Will provide critical services during storm events</i>
<b>Political</b>	<i>No apparent political issues.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>No adverse environmental effects.</i>
<b>Social</b>	<i>Borough of Neptune City residents.</i>
<b>Administrative capability</b>	<i>Need at least 3 people to administer (After technical assistance from the State)</i>
<b>Local champion</b>	<i>Residents of Neptune City</i>
<b>Other community objectives</b>	<i>Will provide services in accordance with the Office of Emergency Management duties.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Office of Emergency Management Program</i>
<b>Responsible party</b>	<i>Borough Engineer and OEM Director</i>
<b>Potential funding sources</b>	<i>HMGF, RFC, SRL and FMA. For 25% local match, in-kind services</i>
<b>Time line</b>	<i>Ongoing as funds are available</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Neptune City</i>
<b>Community action number</b>	<i>Borough of Neptune City - Action No. 6</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, storm surge, hurricane &amp; tropical storm, nor'easter</i>
<b>Risk finding</b>	<i>Piped streams and storm water management infrastructure, do not convey stormwater runoff as efficiently as they should; this results in flooding in several areas. Most of the Borough is in areas mapped as potentially susceptible to storm surge. Thankfully, during Hurricane Sandy, the inundation area was limited fairly close to the Shark River. Some areas inundated during Sandy included: East End Ave., Windsor Ct., Route 35, and Steiner Ave. between Route 35 and 3rd Ave. Drainage system does not efficiently convey stormwater runoff; this results in flooding in several areas. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.</i>
<b>Action category</b>	<i>Planning Study</i>
<b>Action type</b>	<i>Drainage Study</i>
<b>Action description</b>	<i>The Borough improves their stormwater system every year with their yearly roadway program. The Borough would like to develop a comprehensive mitigation study to reduce damage and losses due to flooding. The study will provide the necessary data to determine the larger piping needed to provide a better overall volume/ flow throughout the system. The Borough flood hazard areas have not been studied or updated since 1276.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future development</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Annual flood losses in Neptune City are typically on the order of \$100,000 to \$950,000. We estimate the proposed study could save about \$950,000 per year in flood losses.</i>
<b>Cost estimate</b>	<i>\$150,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Increasing knowledge of the current piping system will help eliminate stormwater flooding and identify key areas for upgrade. We expect that this will be cost effective because losses avoided are estimated to be roughly \$950,000 per year while the costs are less )\$80,000 per year(</i>
<b>Technical</b>	<i>Technically feasible.</i>
<b>Political</b>	<i>No apparent political issues.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>No adverse environmental effects. Will help improve flood control and debris within watershed.</i>
<b>Social</b>	<i>Borough of Neptune City residents.</i>
<b>Administrative capability</b>	<i>Need at least 3 people to administer )After technical assistance from the State(</i>
<b>Local champion</b>	<i>Residents of Neptune City, Shark River Environmental Commission</i>
<b>Other community objectives</b>	<i>Municipal Stormwater Management Regulation Program</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Municipal Stormwater Management Regulation Program</i>
<b>Responsible party</b>	<i>Borough - Engineer</i>
<b>Potential funding sources</b>	<i>HMGP, RFC, SRL and FMA. For 95% local match, in-kind services</i>
<b>Time line</b>	<i>Ongoing as funds are available</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Neptune City</i>
<b>Community action number</b>	7
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Storm surge, flooding, hurricanes, tropical storms, nor'easters, wave action, winter storms
<b>Risk finding</b>	Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	Protect Structures
<b>Action description</b>	Elevation and/or Acquisition of Floodprone Residential Structures, with particular focus on those in our community that are on FEMA's Repetitive Loss List and Severe Repetitive Loss List. New Jersey is committed to continuing the reduction of RL and SRL properties in the State; in turn, they have assigned a high priority to mitigating SRL and RL properties in the State Hazard Mitigation Plan. We are committed to supporting these projects as interested homeowners come forward and will support such homeowners, despite the loss in tax revenue, because we recognize the importance of making our community more disaster-resistant and reducing the financial burden of repetitive flooding in our community.
<b>Existing, future &amp;/or NA</b>	Existing
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Properties on FEMA's RL list have already incurred flood-related damage on two occasions, in which the cost of the repair, on average, equaled or exceeded 25% of the market value of the structure at the time of each such flood event. Properties on FEMA's SRL list have already incurred flood related damage (i) For which four or more separate claims payments have been made under flood insurance coverage with the amount of each such claim exceeding \$5,000, and with the cumulative amount of such claims payments exceeding \$20,000; or (ii) For which at least two separate claims payments have been made under such coverage, with the cumulative amount of such claims exceeding the market value of the insured structure. While losses avoided by elevating or acquiring properties on FEMA's RL and SRL lists are unquantifiable until specific interested homeowners come forward, they would meet these criterion by definition, at a minimum.
<b>Cost estimate</b>	Project costs are unquantifiable at this time. They would depend on the particular home(s) in question, and the nature of the project the homeowner is interested in (acquisition, or elevation).
<b>Cost effectiveness (i.e., benefit/cost)</b>	Because our RL and SRL properties have incurred so much damage historically, it is highly probable that mitigating these properties would be cost effective. Specific determinations of cost-effectiveness would be done in the future on a case by case basis as interested homeowners come forward and project details are specified.
<b>Technical</b>	Elevation and acquisition are both technically feasible project types
<b>Political</b>	Our political leadership supports this type of project
<b>Legal</b>	While the municipality does not own the structures in question, we fully support the homeowners in moving forward
<b>Environmental</b>	No environmental impacts are anticipated at this time; this would be confirmed as specific homeowners come forward and their property details are reviewed. It is likely that environmental impacts would be positive, as household hazardous wastes are no longer introduced into floodwaters.
<b>Social</b>	No particular social group in our community is likely to be disproportionately impacted by this project; this would be re-evaluated as particular interested homeowners come forward.
<b>Administrative capability</b>	Our municipality has the administrative capabilities to manage an elevation and/or acquisition project
<b>Local champion</b>	affected homeowners, elected officials
<b>Other community objectives</b>	Improve and protect lifestyles of residents; reduction of costly property damage; resiliency; floodplain management; capital improvements
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	Homeowners; Mayor; Council; Administrator; Engineer; local ordinance; Hazard Mitigation Plan
<b>Responsible party</b>	Mayor and Council
<b>Potential funding sources</b>	FEMA hazard mitigation grant funding streams (i.e., HMGP, FMA, etc)
<b>Time line</b>	This is projected to be an ongoing type of activity, with our municipality supporting interested parties as they come forward.
<b>Reporting on Progress</b>	
<b>Action progress status</b>	New action

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Neptune Township</i>
<b>Community action number</b>	<i>Neptune -1-Living Shoreline</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood/Storm Surge/Nor'easter/Hurricane</i>
<b>Risk finding</b>	<i>Neptune Township is a coastal community with a substantial amount of land in Neptune Township lies within mapped flood and storm surge hazard areas. During Hurricane Sandy significant storm surge flooded areas near the Shark River, Fletcher Lake, Wesley Lake, and Atlantic Ocean. Both private homes and public infrastructure were impacted. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Critical Resource Protection with natural shoreline</i>
<b>Action type</b>	<i>Living Shoreline</i>
<b>Action description</b>	<i>Construct a living shore line along the Shark River, located in the Shark River Hills neighborhood of the Township connecting into the bordering town of Neptune City.</i>
<b>Existing, future &amp;/or NA</b>	<i>Action protects existing infrastructure and development any future.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Avoided costs as related to OEM/Evacuations and Policing. In addition, for every dollar spent to construct vegetative shoreline stabilization, as much as 175 percent is returned to the economy in the form of improvements to resources, including submerged aquatic vegetation, fish, shellfish, wetlands habitats, etc. In addition, flood insurance premiums may be reduced through an improved CRS rating. (175% of estimated costs below of \$4,198,000 = \$7,346,500)</i>
<b>Cost estimate</b>	<i>Costs to design, permit, and construct living shoreline = \$4,198,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits of as much as \$7,346,500 and costs of about \$4,198,000.</i>
<b>Technical</b>	<i>Technically feasible. Conceptual plan completed for grants, properties owned by the Township and bordering municipalities.</i>
<b>Political</b>	<i>Neptune Township, Neptune City and Belmar support the living shorelines along portions of their boundaries</i>
<b>Legal</b>	<i>Properties for where the living shoreline are proposed are owned by the subject municipality</i>
<b>Environmental</b>	<i>May require NJDEP permitting</i>
<b>Social</b>	<i>This action does not adversely affect any particular neighborhood, social group or organization. The project would be wholly on publicly owned property. It would serve to further protect property and infrastructure</i>
<b>Administrative capability</b>	<i>Township can administer action with help from consultants</i>
<b>Local champion</b>	<i>Planning, Emergency Management, Harbor Commission, Governing Bodies, Neighborhood groups in favor of project</i>
<b>Other community objectives</b>	<i>this action furthers environmental quality, furthers the use of open space preservation, helps support fish habitat</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Plans and Specifications</i>
<b>Responsible party</b>	<i>Neptune Township Engineering Department</i>
<b>Potential funding sources</b>	<i>Sandy Resiliency Grant; NJDEP 319h grant; HMGP Grant</i>
<b>Time line</b>	<i>within 2 -5 years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action proposed in 2013</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Neptune Township</i>
<b>Community action number</b>	<i>Neptune -2-Floodproof hoors for Pump Stations</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood/Storm Surge/Nor'easter/Hurricane</i>
<b>Risk finding</b>	<i>Hurricane Sandy highlighted pump stations that are in need of water tight doors. When water enters the pump station, the controls and the pumps themselves get damaged/destroyed and service is interrupted.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure Infrastructure Projects</i>
<b>Action type</b>	<i>Floodproofing</i>
<b>Action description</b>	<i>Retrofit existing pump stations in flood zones with watertight doors and/or windows</i>
<b>Existing, future &amp;/or NA</b>	<i>Action protects existing infrastructure and potential failure and damage to pump station and controls</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>township cost to repair/replace controls; failure or pump station pumps. Improvements will protect pump station facility and equipment from future flooding. Damages to the facilities after Super Storm Sandy totaled approximately \$149,300.00, therefore the improvements pay for themselves in the event of a major storm or flooding. Additionally the improvements will help to ensure uninterrupted service to the residents during times of flooding. This benefit is not inclusive of the benefits associated with continuity of operations.</i>
<b>Cost estimate</b>	<i>Cost to upgrade existing facilities with floodproof doors and/or windows = \$18,500/facility x 8 facilities = \$148,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits of up to about \$149,300.00 per occurrence, and costs of only \$148,000.00 in total.</i>
<b>Technical</b>	<i>Technically feasible. Need plans and local building permit</i>
<b>Political</b>	<i>Neptune Township Sewer Department and Township Committee in support of project</i>
<b>Legal</b>	<i>Properties where pump stations are located are owned by the Township of Neptune, no Legal issue</i>
<b>Environmental</b>	<i>No NJDEP permitting required</i>
<b>Social</b>	<i>This action does not adversely affect any particular neighborhood, social group or organization. It would serve to further protect property and infrastructure</i>
<b>Administrative capability</b>	<i>Township can administer action.</i>
<b>Local champion</b>	<i>Neptune Township, Neptune Township Sewer Department</i>
<b>Other community objectives</b>	<i>Project furthers the protection of critical infrastructure and local neighborhood by alleviate failure and sewer back ups</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Local Building code</i>
<b>Responsible party</b>	<i>Neptune Township Engineering Department/Neptune Sewer Department</i>
<b>Potential funding sources</b>	<i>Sewer Capital</i>
<b>Time line</b>	<i>within 1-2 years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action proposed in 2014</i>

## Action Worksheet

<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Neptune Township</i>
<b>Community action number</b>	<i>Neptune -3-Bulkheading of S. Riverside Drive</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood/Storm Surge/Nor'easter/Hurricane</i>
<b>Risk finding</b>	<i>During Hurricane Sandy significant storm surge flooded areas near the Shark River. Hurricane Sandy highlighted gaps in the existing bulkhead system and associated flood impacts. Some areas are void of bulkheading; others have bulkhead elevations that are too low. Backflow of tidewaters into the drainage system at the outfalls creates flooding when the system is full of tidewater instead of runoff.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure Infrastructure Projects,flood Mitigation</i>
<b>Action type</b>	<i>Bulkheading and Drainage Improvements</i>
<b>Action description</b>	<i>Reconstruct deteriorate bulkheading, extend drainage pipes, retrofit storm drains with Tideflex valves</i>
<b>Existing, future &amp;/or NA</b>	<i>Action protects existing infrastructure and development both public and private. Also protects future development.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Losses avoided include damages to public Infrastructure, water, sewer gas in roadway, loss of roadways, flooding and evacuation costs, displacement of residents, and damage to private property. Improvements would minimize detours, evacuations, damage to infrastructure, property, and repair and replacement of same including critical facilities. Improvements not only reduce flood damage caused by major storms but also during high tides (2-3 times per month). Additionally the improvements will also minimize the need for detours and evacuations during major storm events allowing more impacted areas to receive necessary help. Losses avoided are expected to be \$1,326,478.00.</i>
<b>Cost estimate</b>	<i>Cost to design, permit, and construct bulkheading along S. Riverside Dr. = \$1,291,605.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>The project is likely to be cost effective, with a Benefit to Cost Ratio of 1.027.</i>
<b>Technical</b>	<i>Technically feasible. Need plans and permitting</i>
<b>Political</b>	<i>Neptune Township Committee, Shark River Hills Homeowners Association, OEM</i>
<b>Legal</b>	<i>No apparent legal issues; Township owns property</i>
<b>Environmental</b>	<i>NJDEP permitting required</i>
<b>Social</b>	<i>This action would serve to protect a neighborhood that was severely damaged by Sandy. It would not adversely affect them, it would further protect them.</i>
<b>Administrative capability</b>	<i>Township can administer action.</i>
<b>Local champion</b>	<i>Neptune Township, Neptune Township Sewer Department</i>
<b>Other community objectives</b>	<i>Project furthers the protection of critical infrastructure and local neighborhood by alleviate failure and sewer back ups</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Plans and specification for bid required</i>
<b>Responsible party</b>	<i>Neptune Township Engineering Department, Neptune Township Committee</i>
<b>Potential funding sources</b>	<i>FEMA-HMGP</i>
<b>Time line</b>	<i>2-5years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Continued Action from Worksheet #5 Action has been proposed since 2010</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Neptune Township</i>
<b>Community action number</b>	<i>Neptune -4-Bulkheading Berm around local Lake Alberta, Fletcher Lake and Wesley Lake</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood/Storm Surge/Nor'easter/Hurricane</i>
<b>Risk finding</b>	<i>During Hurricane Sandy significant storm surge flooded areas near Fletcher Lake, Wesley Lake, and Lake A lberta. Both private homes and public infrastructure were impacted. Hurricane Sandy highlighted gaps in the existing bulkead system and associated flood impacts. Some areas are void of bulkheading; others have bulkhead elevations that are too low.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure Infrastructure Projects,flood Mitigation</i>
<b>Action type</b>	<i>Bulkhead, Drainage Improvements and property protection</i>
<b>Action description</b>	<i>Construct/elevate bulkhead around lakes to provide additional protection. To be constructed out of structural or earth berm.</i>
<b>Existing, future &amp;/or NA</b>	<i>Action protects existing infrastructure and development both public and private. Also protects future development.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Public Infrastructure, TNHA housing residents, flooding and evacuation costs, displacement of residents, damage to private property. Improvements would minimize detours, evacuations, damage to infrastructure, property, and repair and replacement of same including critical facilities. After Super Storm Sandy, damages to township facilities in the area of the proposed improvements totaled approximately \$1,766,000. Additionally, 15 private properties, within the area of the proposed improvements, suffered damages assessed at approximately \$550,800. (total: \$2,316,800). Additionally the improvements will also minimize the need for detours and evacuations allowing more impacted areas to receive necessary help.</i>
<b>Cost estimate</b>	<i>Lake Alberta: 1,400LF @ \$450/LF = \$630,000 Fletcher Lake: 1,200LF @ \$1,050/LF = \$1,260,000 Wesley Lake: 1,900LF @ \$1,050/LF = \$1,995,000 1,100LF @ \$2,500/LF = \$2,750,000                      <u>Total: \$6,635,000</u></i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>The improvements are expected to be cost effective and pay for themselves in the event of at least three (3)major storms. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.</i>
<b>Technical</b>	<i>Technically feasible. Need plans and permitting</i>
<b>Political</b>	<i>Neptune Township Committee, TNHA, OEM, Ocean Grove Homeowners Association</i>
<b>Legal</b>	<i>No apparent legal issues; Township owns property</i>
<b>Environmental</b>	<i>NJDEP permitting required</i>
<b>Social</b>	<i>This action would serve to protect a neighborhood that was severely damaged by Sandy. It would not adversely affect them, it would further protect them.</i>
<b>Administrative capability</b>	<i>Township can administer action but will need consultants for permitting and plans</i>
<b>Local champion</b>	<i>Neptune Township, Neptune Township Sewer Department</i>
<b>Other community objectives</b>	<i>Project furthers the protection of critical infrastructure and local neighborhood by alleviate flooding and evacuations</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Plans and specification for bid required</i>
<b>Responsible party</b>	<i>Neptune Township Engineering Department; Neptune Township Committee;</i>
<b>Potential funding sources</b>	<i>FEMA-HMGP;NRCS</i>
<b>Time line</b>	<i>2-5years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Neptune Township</i>
<b>Community action number</b>	<i>Neptune -5-Acquisition of Flood Prone Properties</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood/Storm Surge/Nor'easter/Hurricane</i>
<b>Risk finding</b>	<i>During Hurricane Sandy significant storm surge flooded areas near the Shark River, Fletcher Lake, Wesley Lake, Lake Alberta, and Atlantic Ocean. Both private homes and public infrastructure were impacted. Some structures need to be elevated; others in more low-lying areas would seem to be good candidates for acquisition (particularly: Shark River Hills, South Riverside Drive, and Shark River Memorial Park). Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Acquisition</i>
<b>Action type</b>	<i>Acquisition of Private Properties</i>
<b>Action description</b>	<i>Identify and target properties of willing sellers in special hazard or flood prone areas and obtain appraisals and funding for acquisition. Upon acquisition, maintain as dedicated open space.</i>
<b>Existing, future &amp;/or NA</b>	<i>Action protects existing properties and deters future development in subject areas prone to flooding</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Private property damage, evacuations, property damage, infrastructure damage. The acquisition of the frequently flooded properties in question would minimize further damage to the area and surrounding areas as well as repetitive loss due to storms and high tide flooding. By stopping private development within the flood zones the natural land serves as a buffer to protect surrounding properties and infrastructure, and adds space to develop natural means to do same. Losses avoided are estimated to be about \$64,000.00/year.</i>
<b>Cost estimate</b>	<i>Shark River Hills Property Acquisition = \$4,502,750.00 Shark River Memorial Park = \$92,500.00 Total = \$4,595,250.00 With a useful life of approximately 75 years, this equals \$61,270.00/year</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is expected to be cost effective, with benefits on the order of \$64,000.00/year and costs of about \$61,270.00/year.</i>
<b>Technical</b>	<i>Technically feasible. Need appraisals and funding</i>
<b>Political</b>	<i>Neptune Township Committee, Willing property owners</i>
<b>Legal</b>	<i>Appraisals have to be obtained and negotiations are needed with property owners</i>
<b>Environmental</b>	<i>Depending on prior use, may have some environmental issues to remediate</i>
<b>Social</b>	<i>This action would serve to protect a neighborhood that was severely damaged by Sandy. It would serve to have properties preserved and not be developed in the future as some parcels have approved subdivisions on them.</i>
<b>Administrative capability</b>	<i>Township can administer action but will need appraisals for properties</i>
<b>Local champion</b>	<i>Neptune Township, Willing Property Owners</i>
<b>Other community objectives</b>	<i>Project furthers the protection of critical infrastructure and local neighborhood by alleviate flooding and evacuations</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Appraisals and Attorneys</i>
<b>Responsible party</b>	<i>Neptune Township Administration</i>
<b>Potential funding sources</b>	<i>Blue Acres, Green Acres, FEMA</i>
<b>Time line</b>	<i>Now-2 years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>A new action proposed in 2013</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Neptune Township</i>
<b>Community action number</b>	<i>Neptune -6-Creation of a Permanent Confined Disposal Facilities (CDF)</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood/Storm Surge/Nor'easter/Hurricane</i>
<b>Risk finding</b>	<i>Neptune Township is a coastal community with a substantial amount of land lying within mapped flood and storm surge hazard areas. Debris and siltation in Shark River obstructs flood flows. Limited capacity causes evacuations, road closures, property damage. During Hurricane Sandy areas near the Shark River were flooded. Both private homes and public infrastructure were severely impacted.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural</i>
<b>Action type</b>	<i>Construction of Structural Earthen Berm</i>
<b>Action description</b>	<i>I identify and target properties that have the characteristics that can be used for a CDF. Earthen Berms to be constructed. Berm to be constructed out of material and to form a stable slope. Berm to be stabilized with seed.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>OEM personal, evacuations, road closures, public infrastructure, public and private property loss. The CDF provides an area for storage of dredge materials, allowing storage space for flood mitigation projects that involve dredging, therefore allowing those projects to progress. Improvements will increase the volume of the Shark River Basin allowing for more storage of stormwater runoff from the surrounding area, therefore helping alleviate flooding within the entire watershed during high tides (2-3 times a month) and major storm events. It would also restrict development of properties in flood prone areas. Additionally the improvements will also provide a recreational benefit to residents of the Township and bordering municipalities who use the river for bathing, boating, and general recreation. Losses avoided for this project are estimated to be \$21,349.83/year.</i>
<b>Cost estimate</b>	<i>Hauling of materials and construction of raised area = 19,500 CY @ \$20/CY is approximately \$390,000.00. Installation of landscaping along berm = 5,025 SY @ \$25.00/SY is approximately \$125,625.00. Total = \$495,420.00 with a useful life of approximately 30 years, this equals \$17,187.50/year.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is expected to be cost effective, with benefits of about \$21,349.83/year and costs of only about \$17,187.50/year.</i>
<b>Technical</b>	<i>Technically feasible. Township has property that could be utilized needs preliminary design</i>
<b>Political</b>	<i>Neptune Township Committee, adjacent homeowners associations</i>
<b>Legal</b>	<i>Township owned property, CDF can be built</i>
<b>Environmental</b>	<i>NJDEP permitting will be required.</i>
<b>Social</b>	<i>This action would serve to protect a neighborhood that was severely damaged by Sandy. It would serve to have properties preserved and not be developed in the future as some parcels have approved subdivisions on them.</i>
<b>Administrative capability</b>	<i>Township can administer and prepare CDF plan with consultant permitting help</i>
<b>Local champion</b>	<i>Neptune Township, Homeowners Association</i>
<b>Other community objectives</b>	<i>Project furthers the protection of critical infrastructure and local neighborhood by alleviate flooding and evacuations</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Plans and specifications;</i>
<b>Responsible party</b>	<i>Engineering and Planning</i>
<b>Potential funding sources</b>	<i>NJDEP; FEMA</i>
<b>Time line</b>	<i>Now-2 years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Neptune Township</i>
<b>Community action number</b>	<i>Neptune -7-AM/FM Radio Station/Flood Warning</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Hurricane/Tropical Storm/Flooding/Storm Surge</i>
<b>Risk finding</b>	<i>Persons living and working in flood hazard areas do not always have enough time to prepare and evacuate floodprone areas. Neptune Township is a coastal community with a substantial amount of land lying within mapped flood and storm surge hazard areas. By the year 2040, it is projected to have a population increase of 11.6% over 2010 values. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Awareness program</i>
<b>Action type</b>	<i>Establish AM Radio station; install warning system and flood gauges</i>
<b>Action description</b>	<i>Install flood gauges with warning lights in rivers and lakes in or near flood prone areas. Specifically along Shark River, in Alberta and Fletcher Lake. Have the flood gauges tie to an AM radio station to put out warnings</i>
<b>Existing, future &amp;/or NA</b>	<i>Protects both existing and future development; existing and future infrastructure; minimizes personal for evacuations</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>OEM personal, evacuations, road closures, public infrastructure, public and private property loss. As water levels rise during storm events, the flood warning system would provide advanced warning to affected residents within that area, allowing residents time to prepare their property and/or evacuate. After Super Storm Sandy, damages to township facilities and private property totaled approximately \$13,300,000.00. If by providing advanced warning residents could protect or save just a fraction of their property, the system would more than pay for itself. It would also provide cost savings by reducing the need for detours and evacuations during major storm events allowing more impacted areas to receive other necessary help. Losses avoided are expected to be \$19,950.00/year.</i>
<b>Cost estimate</b>	<i>Construction and Implementation of Radio Station/Flood Warning is approximately \$100,000.00, with a useful life of approximately 10 years, this equals \$10,000.00/year.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is expected to be cost effective, with benefits of \$19,950.00/year and costs of only \$10,000.00/year.</i>
<b>Technical</b>	<i>Technically feasible. Township would have to locate lake or tide gauges on Township owned property.</i>
<b>Political</b>	<i>Neptune Township Committee Adjacent property owners</i>
<b>Legal</b>	<i>All work would have to be located on Township owned property. AM station would have to be obtained</i>
<b>Environmental</b>	<i>Local permitting required for post with warning light</i>
<b>Social</b>	<i>Proposed action will help to warn certain flood prone neighborhoods. These would be strategically be located in 4 separate sectors of the Township</i>
<b>Administrative capability</b>	<i>Township can administer would have to prepare bids and specs for radio station and proposed gauges with lights and warning system tied to radio station</i>
<b>Local champion</b>	<i>Neptune Township, Homeowners Associations, TNHA, OEM</i>
<b>Other community objectives</b>	<i>Provides advanced warning for people and business to prepare or evacuate to higher ground prior to an event. Minimizes use of Police and OEM personal for detours and evacuations</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>Plans and specifications;</i>
<b>Responsible party</b>	<i>Engineering and Planning/OEM</i>
<b>Potential funding sources</b>	<i>FEMA</i>
<b>Time line</b>	<i>Now-2 years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New Action 2013</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Neptune Township</i>
<b>Community action number</b>	<i>Neptune -8-Desiltation of Shark River Basin</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Hurricane/Tropical Storm/Flooding/Storm Surge</i>
<b>Risk finding</b>	<i>Neptune Township is a coastal community with a substantial amount of land lying within mapped flood and storm surge hazard areas. Debris and siltation in Shark River obstructs flood flows. limited capacity causes evacuations, road closures, property damage. During Hurricane Sandy areas near the Shark River were flooded. Both private homes and public infrastructure were severely impacted.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Nonstructural project; flood control</i>
<b>Action type</b>	<i>Removal of silt and sediment from the Shark River Basin</i>
<b>Action description</b>	<i>Dredge or pump siltation from entire Shark River Basin to Confined Disposal Facility (CDF)</i>
<b>Existing, future &amp;/or NA</b>	<i>Protects both existing and future development; existing and future infrastructure; provides additional capacity in the Shark River Basin.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>OEM personnel, evacuations, road closures, public infrastructure, public and private property loss. Improvements will increase the volume of the Shark River Basin allowing for more storage of stormwater runoff from the surrounding area, therefore helping alleviate flooding within the entire watershed during high tides (2-3 times a month) and major storm events. Additionally the improvements will also provide a recreational benefit to residents of the Township and bordering municipalities who use the river for bathing, boating, and general recreation. Losses avoided for this project are estimated to be \$128,099.00/year.</i>
<b>Cost estimate</b>	<i>Removal of silt and sediment = 1,000,000 CY @ \$30/CY is approximately \$30,000,000.00, with a useful life of approximately 50 years, this equals \$600,000.00/year.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is not likely to be cost effective, with estimated benefits of \$128,099.00/year and costs of \$600,000.00/year.</i>
<b>Technical</b>	<i>Technically feasible. Cooperation needed from NJDEP, ACOE and adjoining municipalities</i>
<b>Political</b>	<i>Neptune Township Committee would have to jointly work on this project with Neptune City, Belmar and NJDEP and NJDOT</i>
<b>Legal</b>	<i>Legal issue is the ownership of the Shark River Basin</i>
<b>Environmental</b>	<i>NJDEP, ACOE permitting required</i>
<b>Social</b>	<i>Proposed action will help to protect flood prone neighborhoods.</i>
<b>Administrative capability</b>	<i>State would have to administer in conjunction with Township . Would have to be a joint effort between Neptune, Neptune City, Belmar, Wall, NJDEP and NJDOT.</i>
<b>Local champion</b>	<i>Neptune Township, Neptune City, NJDOT, Belmar, Friends of Belmar Harbor, Shark River Yacht Club, Homeowners Associations</i>
<b>Other community objectives</b>	<i>Provides not only additional capacity and flood protection but helps to reestablish the marine environment through better cleansing of the river and improved Tidal flow. Also alleviates safety issues associated with the siltation of the river with regards to the boating and recreational communities (i.e. paddleboarders, jet skiers, etc who are at risk with no water and siltation of the river).</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Plans and specifications;</i>
<b>Responsible party</b>	<i>Neptune Township, Neptune City, NJDEP, Wall, Belmar, NJDOT</i>
<b>Potential funding sources</b>	<i>FEMA, NJDOT, NJDEP</i>
<b>Time line</b>	<i>Immediate</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Has been an initiative since 1998, action from Worksheet 5</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Neptune Township</i>
<b>Community action number</b>	<i>Neptune -2-Desnagging/Desilting of Shark River Tributary, Jumping Brook, and Musquash Brook</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Hurricane/Tropical Storm/Flooding/Storm Surge</i>
<b>Risk finding</b>	<i>Neptune Township is a coastal community with a substantial amount of land lying within mapped flood and storm surge hazard areas. Debris and siltation in Shark River Tributary, Jumping Brook, and Musquash Brook obstructs flood flows. Limited capacity causes evacuations, road closures, property damage. During Hurricane Sandy areas near the Shark River were flooded. Both private homes and public infrastructure were severely impacted.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Natural Resources Protection - Nonstructural project; flood control</i>
<b>Action type</b>	<i>Desnagging and desilting of tributaries to the Shark River</i>
<b>Action description</b>	<i>Removal of dense overgrown vegetation, dead/fallen trees, silt and sediment from the Shark River Tributary, Jumping Brook, and Musquash Brook</i>
<b>Existing, future &amp;/or NA</b>	<i>Protects both existing and future development; existing and future infrastructure; provides additional capacity in the Tributaries of the Shark River.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>OEM personal, evacuations, road closures, public infrastructure, public and private property loss. Risk of damage to existing and proposed development and to properties both public and private along floodprone areas. Limited capacity of the tributaries to maintain stormwater runoff flow furthers the flooding risks for the watershed encompassing Neptune Township, Neptune City, Wall and Belmar causing evacuations, road closures, and property damage. Improvements will increase the volume and flow of the tributaries to the Shark River allowing for more storage of stormwater runoff from the surrounding area therefore helping to alleviate flooding within the entire watershed during high tides (2-3 times a month) and major storm events. The improvements will also aid in cleaning stormwater runoff prior to it entering the Shark River, while enhancing the natural habitat and its inhabitants. Losses avoided as a direct result of this project are estimated to be about \$32,024.50/year.</i>
<b>Cost estimate</b>	<i>Removal of vegetation, silt and sediment = 9,000 LF @ \$65/LF will cost approximately \$585,000.00 with a useful life of approximately 25 years, this equals \$23,400.00/year.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is expected to be cost effective, with benefits of \$32,024.50/year and costs of \$23,400.00/year.</i>
<b>Technical</b>	<i>Technically feasible. Cooperation needed from NJDEP, adjacent property owners and adjoining municipalities.</i>
<b>Political</b>	<i>Neptune Township Committee would have to jointly work on this project with Neptune City, Wall, Belmar and NJDEP.</i>
<b>Legal</b>	<i>Legal issue is the ownership of the sections of the Shark River tributaries</i>
<b>Environmental</b>	<i>No adverse environmental effects because project involves no structural changes and should clean and repair the watershed</i>
<b>Social</b>	<i>Proposed action will help to protect flood prone neighborhoods in Neptune Township, Neptune City, Wall, and Belmar</i>
<b>Administrative capability</b>	<i>Township can administer with an outside consulting preparing plans and specifications for public bid of the improvements by a contractor.</i>
<b>Local champion</b>	<i>Neptune Township, Neptune City, Wall, Belmar, Friends of Belmar Harbor, Shark River Yacht Club, Homeowners Associations</i>
<b>Other community objectives</b>	<i>Provides not only additional capacity and flood protection but helps to reestablish the existing waterways, their natural habitat and its wildlife. Provide better cleansing of the river and improved stormwater management.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>Plans and specifications;</i>
<b>Responsible party</b>	<i>Neptune Township, Neptune City, Wall, Belmar, and NJDEP</i>
<b>Potential funding sources</b>	<i>FEMA and NJDEP, neighboring municipalities</i>
<b>Time line</b>	<i>2-5 years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward</i>

## Action Worksheet

<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Neptune Township</i>
<b>Community action number</b>	<i>Neptune -10-Elevation of Floodprone Properties</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood/Storm Surge/Nor'easter/Hurricane</i>
<b>Risk finding</b>	<i>Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure Infrastructure Projects</i>
<b>Action type</b>	<i>Floodproofing/Elevation of Floodprone Properties</i>
<b>Action description</b>	<i>Elevation of 23 Floodprone Residential Structures</i>
<b>Existing, future &amp;/or NA</b>	<i>Action protects existing properties and infrastructure in flood prone areas</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Losses avoided include repetitive flooding and evacuation costs, displacement of residents, and damage to private property. Improvements would minimize evacuations, damage to property, and repair and replacement of same. Improvements not only reduce flood damage caused by major storms but also during high tides (2-3 times per month). Additionally the improvements will also minimize the need for evacuations during major storm events allowing more impacted areas to receive necessary help. Losses avoided are expected to be \$92,000.00/year.</i>
<b>Cost estimate</b>	<i>Cost to design, permit, and elevate 23 floodprone homes @ \$250,000.00/home = \$5,750,000.00, with a useful life of approximately 100 years, this equals \$57,500.00/year.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is expected to be cost effective, with benefits on the order of \$92,000.00/year and costs of about \$57,500.00/year.</i>
<b>Technical</b>	<i>Technically feasible. Need plans and permitting</i>
<b>Political</b>	<i>Neptune Township Committee, Shark River Hills Homeowners Association, OEM</i>
<b>Legal</b>	<i>While the municipality does not own the structures in questions, we fully support the homeowners in moving forward</i>
<b>Environmental</b>	<i>No environmental impacts are anticipated as a result of elevating the homes</i>
<b>Social</b>	<i>No particular social group in our community is likely to be disproportionately impacted by this project. This action would serve to protect a neighborhood that was severely damaged by Sandy. It would not adversely affect them, it would further protect them.</i>
<b>Administrative capability</b>	<i>Township can administer action but will need cooperation from affected homeowners</i>
<b>Local champion</b>	<i>Affected homeowners and Neptune Township</i>
<b>Other community objectives</b>	<i>Project furthers the protection of critical infrastructure and local neighborhood by alleviate failure and sewer back ups</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Local building code and permits</i>
<b>Responsible party</b>	<i>Homeowners, Neptune Township Engineering Department, Neptune Township Administration</i>
<b>Potential funding sources</b>	<i>FEMA-HMGP, Capital Appropriations</i>
<b>Time line</b>	<i>2-5years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>A new action proposed in 2014</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Neptune Township</i>
<b>Community action number</b>	<i>Neptune11-Generator at North Island Pump Station</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood/Storm Surge/Nor'easter/Hurricane</i>
<b>Risk finding</b>	<i>Hurricane Sandy highlighted pump stations that are in need of power back up at an elevation that will not avoid flooding. The existing at-grade emergency generator was flooded beyond repair as a result of storm surge during Hurricane Sandy</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure Infrastructure Projects</i>
<b>Action type</b>	<i>Emergency Power</i>
<b>Action description</b>	<i>Create elevated platform for new emergency generator to service pump station.</i>
<b>Existing, future &amp;/or NA</b>	<i>Action protects existing infrastructure and potential failure and damage to emergency generator and associated fuel system.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Township cost to replace and elevate 35kW emergency generator and associated diesel fuel system above the 500-year flood elevation. Improvements will protect the North Island Pump Station Facility's emergency generator and fuel system from future flooding. Additionally the improvements will help to ensure uninterrupted service to the residents during times of flooding. Damages to the facility after Super Storm Sandy totaled approximately \$46,587.65; \$26,000.00 of which was to the generator and fuel system. Additional costs were also incurred for necessary bypass equipment and personnel to provide uninterrupted service.</i>
<b>Cost estimate</b>	<i>Cost to install concrete pad to elevate 35kW Emergency Generator at the North Island Pump Station Facility = \$18,500.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective as the improvements protect the emergency generator system from the 500-year storm event and eliminate the need for bypass equipment and personnel in the event of a smaller storm event. The project has benefits greater than \$26,000.00 per occurrence, and costs of only \$18,500.00 in total.</i>
<b>Technical</b>	<i>Technically feasible. Need plans and local building permit</i>
<b>Political</b>	<i>Neptune Township Sewer Department and Township Committee in support of project</i>
<b>Legal</b>	<i>No apparent legal issues; Township owns property</i>
<b>Environmental</b>	<i>No NJDEP permitting required</i>
<b>Social</b>	<i>This action does not adversely affect any particular neighborhood, social group or organization. It would serve to further protect property and infrastructure</i>
<b>Administrative capability</b>	<i>Township can administer action.</i>
<b>Local champion</b>	<i>Neptune Township, Neptune Township Sewer Department</i>
<b>Other community objectives</b>	<i>Project furthers the protection of critical infrastructure and local neighborhood by alleviating failure and sewer back-ups due to flooding.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Local Building code</i>
<b>Responsible party</b>	<i>Neptune Township Engineering Department/Neptune Sewer Department</i>
<b>Potential funding sources</b>	<i>Sewer Capital</i>
<b>Time line</b>	<i>within 1-2 years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action proposed in 2014</i>

## Action Worksheet

<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Neptune Township</i>
<b>Community action number</b>	<i>Neptune-12-Preparation of Hazard Overlay Zones</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood/Storm Surge/Nor'easter/Hurricane</i>
<b>Risk finding</b>	<i>Property owners are not aware of the zones that they live in and how they will be impacted. The residents are also not always aware of the evacuation route</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Educational Public Outreach</i>
<b>Action type</b>	<i>Updated GIS mapping; Updated handouts</i>
<b>Action description</b>	<i>Work with GIS Consultant and in house staff to overlay Special Flood Hazard Zones on Township Maps. Also update GIS data base to add to website. Provide as handouts at Neptune Day and at counter to residents. Provide to Homeowners Associations in Special Flood Hazard Zones.</i>
<b>Existing, future &amp;/or NA</b>	<i>Action further educates residents regarding risks in Special Flood Hazard Zones; Helps to identify evacuation routes and flooding risks; minimize personal costs and detours</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Township OEM personal, evacuations, and private property loss. The mapping will educate the public of potential flood zones and in effect, homes can be elevated in these zones to mitigate damage and further reduce future loses. Additionally, public buildings can be floodproofed or elevated in these zones to mitigate future damage, costs. After Super Storm Sandy, damages to Township facilities and private property totaled approximately \$13,300,000.00. If educated residents could protect or flood proof just a fraction of their property, the mapping would more than pay for itself. It would also provide cost savings by reducing the need for evacuations during major storm events allowing more impacted areas to receive other necessary help. Losses avoided are expected to be \$6,650.00/year.</i>
<b>Cost estimate</b>	<i>Preparation and publication of Hazard Overlay Zone mapping is approximately \$10,000.00, with a useful life of approximately 5 years, this equals \$2,000.00/year.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is expected to be cost effective, with benefits of \$6,650.00/year and costs of only \$2,000.00/year.</i>
<b>Technical</b>	<i>Technically feasible. Need coordination with in house staff and GIS consultant.</i>
<b>Political</b>	<i>Neptune Township Committee</i>
<b>Legal</b>	<i>No apparent legal issues; Township owns property</i>
<b>Environmental</b>	<i>No NJDEP permitting required</i>
<b>Social</b>	<i>This action does not adversely affect any particular neighborhood, social group or organization. It would serve to further protect property and infrastructure</i>
<b>Administrative capability</b>	<i>Township can administer action.</i>
<b>Local champion</b>	<i>Neptune Township Committee, Neptune Township OEM, Neptune Township Department of Engineering</i>
<b>Other community objectives</b>	<i>Project furthers the protection of critical infrastructure and local neighborhood by further education public, property owners as to risks associated with Special Flood Hazard Area.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	
<b>Responsible party</b>	<i>Neptune Township Engineering Department/GIS Consultant</i>
<b>Potential funding sources</b>	<i>General Capital</i>
<b>Time line</b>	<i>within 1-2 years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action proposed in 2014</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Neptune Township</i>
Community action number	<i>Neptune-13-Implement GIS based Hazard data on Website</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding; Storm Surge; Hurricane</i>
Risk finding	<i>Property owners are not aware of the zones that they live in and how they will be impacted. The residents are also not always aware of the evacuation route nor of the potential hazards of the area in or near where they live</i>
<b>Describing the Action</b>	
Action category	<i>Education and Awareness</i>
Action type	<i>Public Awareness and Education</i>
Action description	<i>Updating online GIS on the website to include multiple</i>
Existing, future &/or NA	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Public and Private Property Damage and losses throughout the municipality exceeded 13 million. Neptune Township is 8 square miles and has 29,000 residents and over 11000 parcels, both commercial and residential. Any information the Township can provide to help heighten awareness for Hazards and provide safe evacuation routes will be positive. This awareness campaign will help avoid unnecessary rescues from people being stranded, provide awareness of hazards so that buildings are properly constructed in their respective zones.</i>
Cost estimate	<i>\$10,000.00</i>
Cost effectiveness (i.e., benefit/cost)	<i>The potential benefits of the public education and outreach with this information logically will outweigh the minimal cost associated with the task. This task can be completed in house for minimal cost and the public and private potential losses that may be reduced will certainly be more than \$10000.00</i>
Technical	<i>Technically feasible with in house engineering department</i>
Political	<i>The project should have the support of the Governing body as it's implementation would serve to aide the residents.</i>
Legal	<i>No apparent legal issues;</i>
Environmental	<i>No NJDEP permitting required</i>
Social	<i>This action does not adversely affect any particular neighborhood, social group or organization. It would serve to further protect property and infrastructure</i>
Administrative capability	<i>Township can administer action.</i>
Local champion	<i>Neptune Township Committee; Neighborhood Groups, Neptune Township Engineering Department and Department of Public Works</i>
Other community objectives	<i>Project also serves to help us satisfy some of our annual NJDEP Stormwater Permitting requirements.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Neptune Township Committee, Neptune Township Engineering Department</i>
Responsible party	<i>Neptune Township Engineering Department</i>
Potential funding sources	<i>Capital</i>
Time line	<i>within 1-2 years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Action from Worksheet #5</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Ocean Township</i>
<b>Community action number</b>	<i>Project #1 - Acquisition of Brookside Ave Properties</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Hurricane, tropical storm, nor'easter, winter storm, flood, storm surge, tsunami</i>
<b>Risk finding</b>	<i>Flooding to building and property during Hurricane, tropical storm, nor'easter, winter storm, flood, storm surge, tsunami. Dozens of homes in the 10 year flood zone on Brookside Avenue are susceptible to flooding during storms, high ties, and combinations thereof.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Acquisition</i>
<b>Action type</b>	<i>Property Acquisition</i>
<b>Action description</b>	<i>Presently looking at up to 28 properties to purchase/demolition and to maintain as open space.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>prevent a loss of property and life by purchasing and having the families relocate to a house outside of the flood plain</i>
<b>Cost estimate</b>	<i>up to \$12,600,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>These homes are located within the 10 year flood zone and are susceptible to flooding. The flooding is due either to a storm event, high tide or combination of both. Since the existing outfall of the brook is only into the Atlantic Ocean, as high tides comes in, the water elevation continuously backs up into the system seeking it's own level, thereby flooding streets, low lying areas, into the living areas of several homes on Brookside Ave.</i>
<b>Technical</b>	<i>Technically feasible; Yes</i>
<b>Political</b>	<i>Political actions present in support of effort</i>
<b>Legal</b>	<i>No legal issues</i>
<b>Environmental</b>	<i>none anticipated; generators would be natural gas units; locations of generators has already been established and the size will be upgraded.</i>
<b>Social</b>	<i>no social impact; locations of generators would not impact area</i>
<b>Administrative capability</b>	<i>Engineering</i>
<b>Local champion</b>	<i>Township Manager, OEM, DPW, Police, elected officials</i>
<b>Other community objectives</b>	<i>Out of the homes that will be acquired and demolished, 1 is on the Severe Repetitive List (SRL), 3 are on the Repetitive Flood Claims (RFC) and most of the others have submitted at least two insurance claims to their insurance companies, NFIP or FEMA.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Township Manager, DPW, Engineer and OEM</i>
<b>Responsible party</b>	<i>Township Manager, Police, DPW, Green Acres, County Open Space office and Engineer</i>
<b>Potential funding sources</b>	<i>Federal, state, county grants with some local funds</i>
<b>Time line</b>	<i>2016</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Ocean Township</i>
<b>Community action number</b>	<i>Project #2 - Dredging and Debris Removal</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Hurricane, tropical storm, nor'easter, winter storm, flood, storm surge, tsunami</i>
<b>Risk finding</b>	<i>Obstructions along the length of Poplar Brook and Whalepond Brook (silt, snags, debris) cause flooding of properties and roadways.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Natural Resource protection; Property Protection and flooding</i>
<b>Action type</b>	<i>Stream Cleaning and some silt removal</i>
<b>Action description</b>	<i>Dredging the length of both Poplar Brook and Whalepond Brook and removing all obstructions from them. Remove snagging and debris from floodway and dredging up to 2 feet of silt</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>This action will prevent future loss of property from flooding and keep roadways clear of flood waters</i>
<b>Cost estimate</b>	<i>Under \$1 million</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Yes, if this is jointly done with County DPW/Mosquito Commission under a program and permits presently being operated</i>
<b>Technical</b>	<i>Technically feasible; Yes</i>
<b>Political</b>	<i>Political actions present in support of effort</i>
<b>Legal</b>	<i>No legal issues; since stream is a natural border with adjoining town, might have to discuss impacts</i>
<b>Environmental</b>	<i>there are areas that will need to be examined along the stream, but no major issues to be dealt with</i>
<b>Social</b>	<i>no social impact, most of this area is surrounded by commercial property and a few homes. A lot of vacant land borders the stream.</i>
<b>Administrative capability</b>	<i>Township agencies can oversee the removal and maintenance</i>
<b>Local champion</b>	<i>Township Manager, Engineer, OEM and DPW</i>
<b>Other community objectives</b>	<i>storm drain improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>Local officials and County agencies; adjoining town on border with stream and where the outfall is</i>
<b>Responsible party</b>	<i>Township Manager, DPW, County Mosquito Commission and Engineer</i>
<b>Potential funding sources</b>	<i>Federal, state, county grants with some local funds</i>
<b>Time line</b>	<i>2016</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried Forward - Some debris that obstructed some of the water was removed but anything that was imbedded is still remaining.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Ocean Township</i>
Community action number	<i>Project #3 - Rehabilitation of Dam</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Hurricane, tropical storm, nor'easter, winter storm, flood, storm surge, tsunami</i>
Risk finding	<i>Water exiting the dam adjacent to Roseld Avenue contains sediment that enters Deal Lake, which contributes to associated flooding. In addition, water exiting the dam can erode the roadway.</i>
<b>Describing the Action</b>	
Action category	<i>Natural Resource protection; Property Protection and flooding</i>
Action type	<i>Rehabilitation of Dam</i>
Action description	<i>Roseld Avenue, rehabilitation of dam adjacent to Roseld Avenue to alleviate flooding and prevent erosion of roadway. The Roseld Avenue project will provide a water quality structure to remove sediment from water prior to entering Deal Lake</i>
Existing, future &/or NA	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Roseld Avenue rehabilitation of dam adjacent to Roseld Avenue to alleviate flooding and prevent erosion of roadway.</i>
Cost estimate	<i>Under \$1 million</i>
Cost effectiveness (i.e., benefit/cost)	<i>In order to keep Deal Lake clean and free from debris and sediment and to prevent a collapse of a major roadway.</i>
Technical	<i>Technically feasible; Yes</i>
Political	<i>Political actions present in support of effort</i>
Legal	<i>No legal issues</i>
Environmental	<i>there are areas that will needed to be examined along the stream, but no major issues to be dealt with</i>
Social	<i>no social impact, most of this area is surrounded by commercial property and a few homes. A lot of vacant land borders the stream.</i>
Administrative capability	<i>Township agencies can over see the removal and maintenance</i>
Local champion	<i>Township Manager, Engineer, OEM, Deal Lake Commission and DPW</i>
Other community objectives	<i>N/A</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Local officials, County and State agencies</i>
Responsible party	<i>Township Manager, DPW, NJDEP, Deal Lake Commission and Engineer</i>
Potential funding sources	<i>Federal, state, county grants with some local funds</i>
Time line	<i>2016</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Ocean Township</i>
<b>Community action number</b>	<i>Project #4 - Generator for 9-1-1 Center/Police HQS</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Loss of electric power at critical facilities due to Hurricane, tropical storm, nor'easter, winter storm, flood, storm surge, tsunami</i>
<b>Risk finding</b>	<i>locations used in major storm events for police operations, emergency management, COOP/COG, public works and/or sheltering do not have an adequate emergency generators for power</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>emergency generators</i>
<b>Action type</b>	<i>acquisition of emergency generators for critical facilities</i>
<b>Action description</b>	<i>Upgrade the current and outdated generator at the town hall which houses the Emergency Operations Center for OEM, Police Dept and Public Works offices which is also used as a reception center for shelters.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>prevent injury and loss of life by providing a location that first responders and public can go to for shelter during severe weather events</i>
<b>Cost estimate</b>	<i>500,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Based on the age and the admitted needed upgrades by JCP&amp;L of the electrical grids within Ocean Twp, the possibly is there that the hub of all emergency communications including the 9-1-1 system could be out of power and not be able to function.</i>
<b>Technical</b>	<i>Technically feasible; Yes</i>
<b>Political</b>	<i>Political actions present in support of effort</i>
<b>Legal</b>	<i>No legal issues</i>
<b>Environmental</b>	<i>none anticipated; generators would be natural gas units; locations of generators has already been established and the size will be upgraded.</i>
<b>Social</b>	<i>no social impact; locations of generators would not impact area</i>
<b>Administrative capability</b>	<i>Engineering</i>
<b>Local champion</b>	<i>Township Manager, OEM, DPW, Police, elected officials</i>
<b>Other community objectives</b>	<i>No other objectives with this project</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Township Manager, DPW, Engineer, Police and OEM</i>
<b>Responsible party</b>	<i>Township Manager, Police, DPW and Engineer</i>
<b>Potential funding sources</b>	<i>Federal, state, county grants with some local funds</i>
<b>Time line</b>	<i>2017</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-Jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Ocean Township</i>
<b>Community action number</b>	<i>Project #5 - Detention Pond Whalepond Brook</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Hurricane, tropical storm, nor'easter, winter storm, flood, storm surge, tsunami</i>
<b>Risk finding</b>	<i>Above normal rainfall causes flooding on roadways and onto private property partially due to restrictions with the drainage pipes at the NJ Transit train tracks that lead into Deal Borough and insufficient size of culverts under roadways.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural</i>
<b>Action type</b>	<i>create an detention pond for Whalepond Brook</i>
<b>Action description</b>	<i>An area needs to be created large enough to hold flood waters during and after a storm and to be release at a pace where it will not effect anything.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Prevention of injuries. Flooding presents a hazard for the public and to emergency responders who have to enter to render aid. Protection of Property: Reduce water damage to public and private lands as well as vehicles.</i>
<b>Cost estimate</b>	<i>3,000,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Property and infrastructure damage reductions as well as lowing traffic and public safety hazards would serve as long term benefit to the community.</i>
<b>Technical</b>	<i>Based on feasibility studies done on other waterways in the township, this is technically feasible.</i>
<b>Political</b>	<i>Support has been dedicated by Congressman, Senates along with local government</i>
<b>Legal</b>	<i>Where the detention pond would be created is county owned property</i>
<b>Environmental</b>	<i>The detention pond would create an environment that would benefit wildlife, plants and the natural resources and promote growth.</i>
<b>Social</b>	<i>No negative social impact. Will improve the neighborhood without relocating anyone and will improve traffic flow in the area and will benefit the park landscaping.</i>
<b>Administrative capability</b>	<i>The county will maintain this area</i>
<b>Local champion</b>	<i>The residents that live along the length of Whalepond Brook including the residents of Branch Rd where there are some tributaries, three boarding towns are strong supporters as well as the governing body and motorists. Another big supporter is the Emergency Services who are the ones that come out to evacuate the residents from their homes to a shelter due to the rising waters.</i>
<b>Other community objectives</b>	<i>No other objectives with this project</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Town officials from Ocean, West Long Branch and Eatontown, OT Township Manager, DPW, Engineer, county officials, State DEP, NOAA, Whalepond Watershed Association and OEM</i>
<b>Responsible party</b>	<i>county officials, OT Township Manager, DPW and Engineer</i>
<b>Potential funding sources</b>	<i>Federal, state, county grants with some local funds</i>
<b>Time line</b>	<i>2016</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried over - Several meetings were already done and all parties concerned are in favor of doing something to help the different communities involved. A feasiblilty study with a design concept would be the next step</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Ocean Township</i>
<b>Community action number</b>	<i>Project #6 - Generators for Critical Facilities</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Hurricane, tropical storm, nor'easter, winter storm, flood, storm surge, tsunami</i>
<b>Risk finding</b>	<i>locations used in major storm events for sheltering and reception centers do not have emergency generators for power</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>emergency generators</i>
<b>Action type</b>	<i>acquisition of emergency generators for critical facilities</i>
<b>Action description</b>	<i>placement of two emergency generators; one at the Ocean Twp High School and the other at the Ocean Twp Recreation/Senior Center which are used as emergency shelters during severe weather events.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>prevent injury and loss of life by providing a location that first responders and public can go to for shelter during severe weather events</i>
<b>Cost estimate</b>	<i>150,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Based on the age and the admitted needed upgrades by JCP&amp;L of the electrical grids within Ocean Twp and the amount of trees near the power lines, the chance during severe weather events have increased and the chance of opening a shelter is now greater.</i>
<b>Technical</b>	<i>Technically feasible; Yes</i>
<b>Political</b>	<i>Political actions present in support of effort</i>
<b>Legal</b>	<i>No legal issues; agreements in place for building use.</i>
<b>Environmental</b>	<i>none anticipated; generators would be natural gas units; locations of generators would not impact area</i>
<b>Social</b>	<i>no social impact; locations of generators would not impact area</i>
<b>Administrative capability</b>	<i>Engineering</i>
<b>Local champion</b>	<i>Township Manager, OEM, School administrators, Board of Education and staff</i>
<b>Other community objectives</b>	<i>No other objectives with this project</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Township Manager, DPW, Engineer, school maintenance and OEM</i>
<b>Responsible party</b>	<i>Township Manager, School administration, DPW and Engineer</i>
<b>Potential funding sources</b>	<i>Federal, state, county grants with some local funds</i>
<b>Time line</b>	<i>2015</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Ocean Township</i>
<b>Community action number</b>	<i>Project #7 - Deal Lake Debris Removal</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Hurricane, tropical storm, nor'easter, winter storm, flood, storm surge, tsunami</i>
<b>Risk finding</b>	<i>Deal Lake, east of Monmouth Road, allot of trees fell as a result of Super Storm Sandy and because of that, downed trees and sediment must be removed in order to create a clear channel for stormwater entering Deal Lake.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Natural Resource protection; Property Protection and flooding</i>
<b>Action type</b>	<i>Removal of Debris</i>
<b>Action description</b>	<i>Sediment and tree removal to create a clear channel for stormwater entering Deal Lake</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>This action will prevent future loss of property from flooding and keep roadways clear of flood waters</i>
<b>Cost estimate</b>	<i>Under \$5 million</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>In order to keep Deal Lake clean and free from debris and sediment and to allow a clear channel for storm water to drain into and to keep the recreational activities on the lake.</i>
<b>Technical</b>	<i>Technically feasible; Yes</i>
<b>Political</b>	<i>Political actions present in support of effort</i>
<b>Legal</b>	<i>No legal issues</i>
<b>Environmental</b>	<i>No environmental issues</i>
<b>Social</b>	<i>The removal of the items will allow the waterway and Deal Lake to be used for recreational uses again without the issue of sediment and obstructions</i>
<b>Administrative capability</b>	<i>Township agencies can over see the removal and maintenance</i>
<b>Local champion</b>	<i>Township Manager, Engineer, OEM, Deal Lake Commission and DPW</i>
<b>Other community objectives</b>	<i>N/A</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Local officials, County and State agencies</i>
<b>Responsible party</b>	<i>Township Manager, DPW, NJDEP, Deal Lake Commission and Engineer</i>
<b>Potential funding sources</b>	<i>Federal, state, county grants with some local funds</i>
<b>Time line</b>	<i>2016</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Ocean Township</i>
<b>Community action number</b>	<i>Project #8 - Colonial Terrace Regional Basin Project</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding, sedimentation, nutrient loading, Hurricane, tropical storm, nor'easter, winter storm, storm surge, tsunami</i>
<b>Risk finding</b>	<i>Flooding, culvert sedimentation and lake infilling reduce the storm attenuation capacity of the Colonial Terrace Arm of Deal Lake (west of Wickapecko Ave)</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Natural Resource Protection and Structural Project</i>
<b>Action type</b>	<i>Engineering design and implementation of plan</i>
<b>Action description</b>	<i>Redesign and construction of existing weir to increase storm attenuation capacity of the Colonial Terrace Arm of Deal Lake (west of Wickapecko Ave)</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>This project's primary benefit is to prevent flood related damages to properties and infrastructure and decrease pollutant load to Deal Lake. Very effective</i>
<b>Cost estimate</b>	<i>\$220,000 inclusive of design, permitting, and site restoration</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Cost of project is far out-weighed by cost of repetitive incurred damages and future impacts</i>
<b>Technical</b>	<i>Mitigation action highly technically feasible</i>
<b>Political</b>	<i>There is both political support and political will to support project</i>
<b>Legal</b>	<i>Yes but will require NJDEP permits to implement</i>
<b>Environmental</b>	<i>The project will benefit the environment. Permits will be needed from the NJDEP and Freehold District SCD</i>
<b>Social</b>	<i>The project has no negative social consequences</i>
<b>Administrative capability</b>	<i>Outside help will be needed to implement the project. Maintenance could be conducted by the Township or by others under contract to the Township</i>
<b>Local champion</b>	<i>Deal Lake Commission</i>
<b>Other community objectives</b>	<i>Consistent with past efforts of the Township and Deal Lake Commission to restore the lake and improve conditions of this section of the lake and the Sunset Landing section of the lake</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Local officials, County and State agencies</i>
<b>Responsible party</b>	<i>Township Manager, DPW, NJDEP, Deal Lake Commission and Engineer</i>
<b>Potential funding sources</b>	<i>NFWF grant application for planning/design submitted by DLC, may be possible to secure 319 grant for implementation. DLC has paid for past maintenance of existing area with NJDEP 319 grant money and local funds</i>
<b>Time line</b>	<i>Fall 2015</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action although Ocean Township and DLC have conducted maintenance dredging of this arm and has attempted to obtain funding in past to implement proposed action</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Ocean Township</i>
Community action number	<i>Project #9 - Harvey Brook Project</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Hurricane, tropical storm, nor'easter, winter storm, flood, storm surge, tsunami</i>
Risk finding	<i>Flood related damages to properties and infrastructure (including Monmouth Road) that abut Harvey Brook (flooding, stream bank erosion and infilling, culvert sedimentation and lake infilling)</i>
<b>Describing the Action</b>	
Action category	<i>Natural Resource Protection and Structural Project</i>
Action type	<i>Engineering design and implementation of plan</i>
Action description	<i>Multi-phase project involving the construction of a regional wetland, flood attenuation basins and stabilization of stream bank</i>
Existing, future &/or NA	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>This project's primary benefit is to prevent flood related damages to properties and infrastructure (including Monmouth Road) that abut Harvey Brook. Very effective</i>
Cost estimate	<i>\$1,500,000 to \$2,250,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>Chronic documented losses and impacts. Proposed action with correct these problems. Cost of project is far out-weighted by cost of repetitive incurred damages and future impacts</i>
Technical	<i>Mitigation action highly technically feasible</i>
Political	<i>There is both political support and political will to support project</i>
Legal	<i>Yes but will require NJDEP permits to implement</i>
Environmental	<i>The project will benefit the environment. Permits will be needed form the NJDEP and Freehold District SCD</i>
Social	<i>The project has no negative social consequences</i>
Administrative capability	<i>Outside help will be needed to implement the project. Maintenance of the wetland basis could be conducted by the Township or by others under contract to the Township</i>
Local champion	<i>Deal Lake Commission</i>
Other community objectives	<i>Consistent with past efforts of the Township and Deal Lake Commission to restore the lake and Harvey Brook as well as past flood control efforts of Deal Lake Golf Club</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Local officials, County and State agencies</i>
Responsible party	<i>Township Manager, DPW, NJDEP, Deal Lake Commission and Engineer</i>
Potential funding sources	<i>NFWF grant application for planning/design submitted by DLC, may be possible to secure 319 grant for implementation</i>
Time line	<i>Summer 2016</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New action although DLC has attempted to obtain funding in past to implement</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Ocean Township</i>
<b>Community action number</b>	<i>Project #10 - Fireman Pond Project</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Hurricane, tropical storm, nor'easter, winter storm, flood, storm surge, tsunami</i>
<b>Risk finding</b>	<i>Flood attenuation is need to reduce flood related damages to properties and infrastructure adjacent to Grassmere Ave and Monmouth Road (flooding, stream bank erosion and infilling, culvert sedimentation and lake infilling)</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Natural Resource Protection and Structural Project</i>
<b>Action type</b>	<i>Engineering design and implementation of plan</i>
<b>Action description</b>	<i>Retrofit of existing weir so pond can function as a regional flood attenuation basin. Install MTD in road to control pollutant loading to lake</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>This project's primary benefit is to prevent flood related damages to properties and infrastructure adjacent to Grassmere Ave and Monmouth Road. Very effective</i>
<b>Cost estimate</b>	<i>\$270,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Chronic documented losses and impacts. Proposed action with correct these problems. Cost of project is far out-weighed by cost of repetitive incurred damages and future impacts</i>
<b>Technical</b>	<i>Mitigation action highly technically feasible</i>
<b>Political</b>	<i>There is both political support and political will to support project</i>
<b>Legal</b>	<i>Yes but will require NJDEP permits to implement</i>
<b>Environmental</b>	<i>The project will benefit the environment. Permits will be needed from the NJDEP and Freehold District SCD</i>
<b>Social</b>	<i>The project has no negative social consequences</i>
<b>Administrative capability</b>	<i>Outside help will be needed to implement the project. Maintenance of the retrofitted Fireman Pond could be conducted by the Township or by others under contract to the Township</i>
<b>Local champion</b>	<i>Deal Lake Commission</i>
<b>Other community objectives</b>	<i>Consistent with past efforts of the Township and Deal Lake Commission</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Local officials, County and State agencies</i>
<b>Responsible party</b>	<i>Township Manager, DPW, NJDEP, Deal Lake Commission and Engineer</i>
<b>Potential funding sources</b>	<i>NFWF grant application for planning/design submitted by DLC, may be possible to secure 319 grant for implementation</i>
<b>Time line</b>	<i>Summer 2016</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action although DLC has attempted to obtain funding in past to implement</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Ocean Township</i>
Community action number	<i>Project #11 - Lollipop Pond Project</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Hurricane, tropical storm, nor'easter, winter storm, flood, storm surge, tsunami</i>
Risk finding	<i>Flood attenuation is needed to reduce related damages to properties and infrastructure located between Chestnut Ave and Wickapecko Ave. Sediment and particulate pollutant loading to Deal Lake. Flooding, culvert sedimentation, pollutant load reduction and lake</i>
<b>Describing the Action</b>	
Action category	<i>Natural Resource Protection and Structural Project</i>
Action type	<i>Engineering design and implementation of plan</i>
Action description	<i>Replace existing weir, dredge and reconfigure existing impoundment west of Chestnut Ave, construct regional, created wetland, flood attenuation basin</i>
Existing, future &/or NA	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Prevent flood related damages to properties and infrastructure located between Chestnut Ave and Wickapecko Ave. Decrease sediment and particulate pollutant loading to Deal Lake. Very effective</i>
Cost estimate	<i>\$400,000 inclusive of engineering, final design, permitting and construction</i>
Cost effectiveness (i.e., benefit/cost)	<i>Provide actual flood control for this central arm of the lake, further facilitate sediment retention thereby preventing blockage of downstream infrastructure and infilling of lake</i>
Technical	<i>Mitigation action highly technically feasible</i>
Political	<i>Political support and political exists for project. DLC and Ocean Township has already conducted organic debris removal from impoundment to improve retention capacity of impoundment and Ocean has repaired faulty, leaking weir</i>
Legal	<i>Yes but will require NJDEP permits to implement</i>
Environmental	<i>Benefits environment/lake. NJDEP and Freehold District SCD permits needed</i>
Social	<i>The project has no negative social consequences</i>
Administrative capability	<i>Outside help needed to implement project. Maintenance of the wetland basin could be conducted by Township or contractors working for Township</i>
Local champion	<i>Deal Lake Commission</i>
Other community objectives	<i>Consistent with past efforts of the Township and DLC to improve conditions of Lollipop Arm of lake arm which receives majority of inflow from highly developed properties located along Rte 35, most without adequate on-site stormwater management</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Local officials, County and State agencies</i>
Responsible party	<i>Township Manager, DPW, NJDEP, Deal Lake Commission and Engineer</i>
Potential funding sources	<i>NFWF grant application for planning/design submitted by DLC, may be possible to secure 319 grant for implementation</i>
Time line	<i>Summer 2015</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New action although DLC has attempted to obtain funding in past to implement</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Ocean Township</i>
<b>Community action number</b>	<i>Project #12 - Enlarge Culverts Poplar Brook</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Hurricane, tropical storm, nor'easter, winter storm, flood, storm surge, tsunami</i>
<b>Risk finding</b>	<i>Above normal rainfall causes flooding on roadways and onto private property partially due to restrictions with the culverts under the two roadways and 1 rain crossing that lead into Deal Borough.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Infrastructure Improvements</i>
<b>Action type</b>	<i>Enlarge Culverts under roadways and train crossing - Poplar Brook</i>
<b>Action description</b>	<i>An area needs to be created large enough to hold flood waters during and after a storm and to be release at a pace where it will not effect anything.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Prevention of injuries. Flooding presents a hazard for the public and to emergency responders who have to enter to render aid. Protection of Property: Reduce water damage to public and private lands as well as vehicles.</i>
<b>Cost estimate</b>	<i>\$2-4 million</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Property and infrastructure damage reductions as well as lowering traffic and public safety hazards would serve as long term benefit to the community.</i>
<b>Technical</b>	<i>Technically feasible; Yes</i>
<b>Political</b>	<i>Support has been dedicated by Congressman, Senates along with local government</i>
<b>Legal</b>	<i>locations under consideration will not present legal issues</i>
<b>Environmental</b>	<i>locations under consideration will not present environmental issues</i>
<b>Social</b>	<i>No negative social impact. Will improve the neighborhood without relocating anyone and will improve traffic flow in the area landscaping.</i>
<b>Administrative capability</b>	<i>The township will maintain this area</i>
<b>Local champion</b>	<i>The residents that live along the length of Poplar Brook are strong supporters as well as the governing body and motorists. Another big supporter is the Emergency Services who are the ones that come out to evacuate the residents from their homes to a shelter due to the rising waters.</i>
<b>Other community objectives</b>	<i>No other objectives with this project</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>Township Manager, DPW, Engineer, State DEP, NJ Transit, County Roads/Bridge Depts. and OEM</i>
<b>Responsible party</b>	<i>Township Manager, DPW, County Roads/Bridge Depts. and Engineer</i>
<b>Potential funding sources</b>	<i>Federal, state, county grants with some local funds</i>
<b>Time line</b>	<i>2018</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward from the last version of the plan. Barriers due to funding. Township has held meeting to explore potential grant options. Study monies may be needed as well.</i>

## Action Worksheet

Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Ocean Township</i>
Community action number	<i>Project #13 - Detention Pong Poplar Brook</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Hurricane, tropical storm, nor'easter, winter storm, flood, storm surge, tsunami</i>
Risk finding	<i>Above normal rainfall causes flooding on roadways and onto private property partially due to restrictions with the drainage pipes at the NJ Transit train tracks that lead into Deal Borough and insufficient size of culverts under roadways.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>create an detention pond</i>
Action description	<i>An area needs to be created large enough to hold flood waters during and after a storm and to be release at a pace where it will not effect anything.</i>
Existing, future &/or NA	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Prevention of injuries. Flooding presents a hazard for the public and to emergency responders who have to enter to render aid. Protection of Property: Reduce water damage to public and private lands as well as vehicles.</i>
Cost estimate	<i>5,000,000.00</i>
Cost effectiveness (i.e., benefit/cost)	<i>Property and infrastructure damage reductions as well as lowing traffic and public safety hazards would serve as long term benefit to the community.</i>
Technical	<i>Feasibility studies and plans were already created by the Army Corp of Engineers stating that this is a technically feasible</i>
Political	<i>Support has been dedicated by Congressman, Senates along with local government</i>
Legal	<i>Where the detention pond would be created is township owned property</i>
Environmental	<i>The detention pond would create an environment that would benefit wildlife, plants and the natural resources and promote growth.</i>
Social	<i>No negative social impact. Will improve the neighborhood without relocating anyone and will improve traffic flow in the area and will benefit the park landscaping.</i>
Administrative capability	<i>The township will maintain this area</i>
Local champion	<i>The residents that live along the length of Poplar Brook are strong supporters as well as the governing body and motorists. Another big supporter is the Emergency Services who are the ones that come out to evacuate the residents from their homes to a shelter due to the rising waters</i>
Other community objectives	<i>No other objectives with this project</i>
<b>Implementing the Action</b>	
Priority	<i>Low</i>
Local planning mechanism	<i>Township Manager, DPW, Engineer, State DEP and OEM</i>
Responsible party	<i>Township Manager, DPW and Engineer</i>
Potential funding sources	<i>Federal, state, county grants with some local funds</i>
Time line	<i>2018</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward from the last version of the plan. Barriers are due to funding and permitting issues to perform studies. Looking for funding and assistance to perform studies</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Ocean Township</i>
<b>Community action number</b>	<i>Project #14 - Flooh Wall along Brooksihe Ave Properties</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Hurricane, tropical storm, nor'easter, winter storm, flood, storm surge</i>
<b>Risk finding</b>	<i>Poplar Brook floods up to 43 homes along Brookside Ave and the road itself (an evacuation route), located within the 10 year flood zone and are susceptible to flooding. The flooding is due either to a storm event, high tide or combination of both. Since the existing outfall of the brook is only into the Atlantic Ocean, as high tides comes in, the water elevation continuously backs up into the system seeking it's own level, thereby flooding streets, low lying areas, into the living areas of several homes on Brookside Ave. The floodprone homes include 1 on the Severe Repetitive List (SRL), 3 on the Repetitive Flood Claims (RFC) list, and most of the others have submitted at least two insurance claims to their insurance companies, NFIP or FEMA. We would also be protecting the evacuation route (county road) for the coastal communities driving through Ocean.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural</i>
<b>Action type</b>	<i>Construct a flood wall</i>
<b>Action description</b>	<i>Presently looking to build a flood wall along the rear properties of the houses on Brookside Ave in the banks of Poplar Brook</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>prevent a loss of property and life by the wall and having the families relocate to a house outside of the flood plain and to maintain the evacuation route for Ocean and coastal communities. Losses avoided are estimated to be on the order of \$2,153,951.</i>
<b>Cost estimate</b>	<i>up to \$1,882,772</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits on the order of \$2,153,95 as compared to costs of only \$1,882,772. Out of the homes that will be saved from flooding, 1 is on the Severe Repetitive List (SRL), 3 are on the Repetitive Flood Claims (RFC) and most of the others have submitted at least two insurance claims to their insurance companies, NFIP or FEMA. We would also be protecting the evacuation route (county road) for the coastal communities driving through Ocean.</i>
<b>Technical</b>	<i>Technically feasible; Yes</i>
<b>Political</b>	<i>Political actions present in support of effort</i>
<b>Legal</b>	<i>No legal issues</i>
<b>Environmental</b>	<i>none anticipated; generators would be natural gas units; locations of generators has already been established and the size will be uparaded.</i>
<b>Social</b>	<i>no social impact; locations of generators would not impact area</i>
<b>Administrative capability</b>	<i>Engineering</i>
<b>Local champion</b>	<i>Township Manager, OEM, DPW, Police, elected officials</i>
<b>Other community objectives</b>	<i>Out of the homes that will be saved from flooding, 1 is on the Severe Repetitive List (SRL), 3 are on the Repetitive Flood Claims (RFC) and most of the others have submitted at least two insurance claims to their insurance companies, NFIP or FEMA. We would also be protecting the evacuation route (county road) for the coastal communities driving through Ocean.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Township Manager, DPW, Engineer and OEM</i>
<b>Responsible party</b>	<i>Township Manager, Police, DPW, Green Acres, County Open Space office and Engineer</i>
<b>Potential funding sources</b>	<i>Federal, state, county grants with some local funds</i>
<b>Time line</b>	<i>2016</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action - Meetings already took place with county and state agencies to discuss the issue and possible outcome. Also funding is being attempted through PDM Mitigation grants.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Ocean Township</i>
<b>Community action number</b>	<i>Project #15 - Enlarge Culverts Whalepond Brook</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Hurricane, tropical storm, nor'easter, winter storm, flood, storm surge, tsunami</i>
<b>Risk finding</b>	<i>Above normal rainfall causes flooding on roadways and onto private property partially due to restrictions with the culverts under the two roadways and 1 rain crossing that lead into Deal Borough.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Infrastructure Improvements</i>
<b>Action type</b>	<i>Enlarge Culverts under roadways and train crossing - Whalepond Brook</i>
<b>Action description</b>	<i>An area needs to be created large enough to hold flood waters during and after a storm and to be release at a pace where it will not effect anything.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Prevention of injuries. Flooding presents a hazard for the public and to emergency responders who have to enter to render aid. Protection of Property: Reduce water damage to public and private lands as well as vehicles.</i>
<b>Cost estimate</b>	<i>\$2-4 million</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Property and infrastructure damage reductions as well as lowering traffic and public safety hazards would serve as long term benefit to the community.</i>
<b>Technical</b>	<i>Technically feasible; Yes</i>
<b>Political</b>	<i>Support has been dedicated by Congressman, Senates along with local government</i>
<b>Legal</b>	<i>locations under consideration will not present legal issues</i>
<b>Environmental</b>	<i>locations under consideration will not present environmental issues</i>
<b>Social</b>	<i>No negative social impact. Will improve the neighborhood without relocating anyone and will improve traffic flow in the area landscaping.</i>
<b>Administrative capability</b>	<i>The township will maintain this area</i>
<b>Local champion</b>	<i>The residents that live along the length of Whalepond Brook including the residents of Branch Rd where there are some tributaries, are strong supporters as well as the governing body and motorists. Another big supporter is the Emergency Services who are the ones that come out to evacuate the residents from their homes to a shelter due to the rising waters</i>
<b>Other community objectives</b>	<i>No other objectives with this project</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>Township Manager, DPW, Engineer, State DEP, NJ Transit, County Roads/Bridge Depts. and OEM</i>
<b>Responsible party</b>	<i>Township Manager, DPW, County Roads/Bridge Depts. and Engineer</i>
<b>Potential funding sources</b>	<i>Federal, state, county grants with some local funds</i>
<b>Time line</b>	<i>2016</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried Over - Nothing done so far</i>

## Action Worksheet

Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Oceanport</i>
Community action number	<i>#1</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>durricane and tropical storm, nor'easters, flooding, storm surge, wave action</i>
Risk finding	<i>Due to its location on a peninsula Oceanport is highly susceptible to storm surge. Oceanport was severely impacted during Hurricanes Irene and Sandy. Most of Oceanport lies within mapped storm surge hazard areas. Flooding is primarily from Parkers Creek, Oceanport Creek, Blackberry Creek, and Branchport Creek (Shrewsbury River tributaries). Most of the Borough was flooded during Hurricane Sandy. More than half (1,200) of the borough's 2,100 households had some sort of damage; about 800 of those homes were damaged due to flooding. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
Action category	<i>Structural project</i>
Action type	<i>elevations</i>
Action description	<i>elevations of 188 residential homes that had been flooded or are in danger of being flooded</i>
Existing, future &/or NA	<i>Protection of existing homes</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>This action will prevent future loss of residential property during flooding events . Losses avoided per property are expected to be at least equal to per property elevation costs.</i>
Cost estimate	<i>Under \$49 million</i>
Cost effectiveness (i.e., benefit/cost)	<i>Based on future predictions of water rise, severe weather events, the savings over time will be substantial and we estimate that home elevations will be cost effective, with per property benefits at least equal to per property costs.</i>
Technical	<i>Technically feasible; Yes</i>
Political	<i>Political actions present in support of effort</i>
Legal	<i>legal issues may be present for individuals homes, which should be addressed prior to start</i>
Environmental	<i>issues would be addressed in plan review prior to approval</i>
Social	<i>social impact would be a better or improved living condition</i>
Administrative capability	<i>Project management would be needed</i>
Local champion	<i>Council and OEM</i>
Other community objectives	<i>Flood plain management</i>
<b>Implementing the Action</b>	
Priority	<i>Priority 1 High</i>
Local planning mechanism	<i>Committee consisting of FEMA, State, Local officials</i>
Responsible party	<i>Council</i>
Potential funding sources	<i>FEMA funding, Grants, bond, mitigation funds</i>
Time line	<i>witin the year of 2016(Letter of Intent submitted in 2/2013, marked Eligible, but not funded, actively being worked on by private cictizens to rise own homes, should be in place within the year or early next year 2015)</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Oceanport</i>
Community action number	<i>#2 (#2 is phase 1; #3 is phase 2)</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>hurricane and tropical storm, nor'easters, flooding, storm surge, wave action</i>
Risk finding	<i>Borough Hall is in an area susceptible to storm surge and was wiped out during Hurricane Sandy. Meetings of the Mayor and Council and Planning Board are still being held at an alternate location. Due to its location on a peninsula Oceanport is highly susceptible to storm surge. Oceanport was severely impacted during Hurricanes Irene and Sandy. Most of Oceanport lies within mapped storm surge hazard areas. Flooding is primarily from Parkers Creek, Oceanport Creek, Blackberry Creek, and Branchport Creek (Shrewsbury River tributaries). Most of the Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
Action category	<i>Structure and Infrastructure Projects</i>
Action type	<i>Removal of critical facilities from flood hazard areas.</i>
Action description	<i><b>RELOCATE BOROUGH HALL PHASE 1 - ACQUIRE LAND FOR THE NEW BUILDING.</b> Boro Hall (consisting of staff offices, library, PD. Council hall) is located in a flood hazard area and was wiped out by Hurricane Sandy. This project will be to construct a new boro hall building on a site located outside of the floodplain, demolish the existing now-abandoned building, and return the lands to open space. Phase 1 of the project is to acquire the land for the new building. Phase 2 of the project is to construct the new building. The Borough is presently looking at 5 property locations for potential new site of building</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>This action will prevent future loss of property and allow for continued government operations without having to relocate to another location during flooding events. Present Boro Hall is being abandoned due to Sandy damage. Cost estimates place it over the 50% figure for repair/renovation. Future loss of a structure would be avoided which would be estimated on the order of \$4-5 Plus Mil.</i>
Cost estimate	<i>Costs are estimated to be on the order of under \$1 Mil or less, depending on the location selected (i.e., very low costs if land swap).</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits on the order of \$4-5 Plus Mil and costs on the order of under \$1 Mil or less</i>
Technical	<i>Technically feasible</i>
Political	<i>Political actions present in support of effort and actively looking for property; public support is not an issue at this time, building soon to be condemned.</i>
Legal	<i>No legal issues</i>
Environmental	<i>locations under consideration will not present environmental issues</i>
Social	<i>no social impact; 4 properties under consideration are vacant land. One property a shopping plaza that would be converted. New shopping plaza being constructed next door.</i>
Administrative capability	<i>Yes, present staff could handle acquisition</i>
Local champion	<i>Council and OEM</i>
Other community objectives	<i>support a Capital Improvement #2, possible economic development if plaza obtained</i>
<b>Implementing the Action</b>	
Priority	<i>Priority 2 High Phase 1</i>
Local planning mechanism	<i>Committee consisting of FEMA, State, Local officials</i>
Responsible party	<i>Council</i>
Potential funding sources	<i>FEMA, Grants, bond, mitigation funds</i>
Time line	<i>within the year of 2014</i>
<b>Reporting on Progress</b>	
Action progress status	<i>carried from last version (Priority 1 High-Phase 1), actively being worked on, should be in place within the year or sooner</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Oceanport</i>
Community action number	<i>#3 (#2 is phase 1; #3 is phase 2)</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>hurricane and tropical storm, nor'easters, flooding, storm surge, wave action</i>
Risk finding	<i>Borough Hall is in an area susceptible to storm surge and was wiped out during Hurricane Sandy. Meetings of the Mayor and Council and Planning Board are still being held at an alternate location. Due to its location on a peninsula Oceanport is highly susceptible to storm surge. Oceanport was severely impacted during Hurricanes Irene and Sandy. Most of Oceanport lies within mapped storm surge hazard areas. Flooding is primarily from Parkers Creek, Oceanport Creek, Blackberry Creek, and Branchport Creek (Shrewsbury River tributaries). Most of the Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
Action category	<i>Structure and Infrastructure Projects</i>
Action type	<i>Removal of critical facilities from flood hazard areas</i>
Action description	<i><b>RELOCATE BOROUGH HALL PHASE 2 - CONSTRUCT THE NEW BUILDING.</b> Boro Hall (consisting of staff offices, library, PD, Council hall) is located in a flood hazard area and was wiped out by Hurricane Sandy. This project will be to construct a new boro hall building on a site located outside of the floodplain, demolish the existing now-abandoned building, and return the lands to open space or sell the property to cover expense with the new building. Phase 1 of the project is to acquire the land for the new building. Phase 2 of the project is to construct the new building.</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>This action will prevent future loss of property and allow for continued government operations without having to relocate to another location during flooding events. Present Boro Hall is being abandoned due to Sandy damage. Cost estimates place it over the 50% figure for repair/renovation. Losses avoided are estimated to be on the order of \$5 Plus Mil. There are also unquantifiable benefits associated with continuity of operations and associated life safety benefits. Continuity of government operations will be uninterrupted and employees will not encounter hazardous work conditions in a new location.</i>
Cost estimate	<i>Under \$5-6million, depending on all factors</i>
Cost effectiveness (i.e., benefit/cost)	<i>Quantifiable benefits are expected to be roughly equal to - though potentially, slightly less than - project costs (quantifiable benefits on the order of more than \$5 million and cost estimates on the order of under \$5 to \$6 million, depending on all factors). This project is still estimated to be cost effective, however, because actual benefits will consist of more than \$5 million quantifiable benefits plus some unquantifiable amount associated with continuity of operations and associated life safety benefits.</i>
Technical	<i>Technically feasible; Yes</i>
Political	<i>Political actions present in support of effort and actively looking for property; public support is not an issue at this time, building soon to be condemned.</i>
Legal	<i>No legal issues</i>
Environmental	<i>locations under consideration will not present environmental issues; building would meet present standards</i>
Social	<i>no social impact; 4 properties under consideration are vacant land. One property a shopping plaza that would be converted. New shopping plaza being constructed next door.</i>
Administrative capability	<i>Project management would be needed</i>
Local champion	<i>Council and OEM</i>
Other community objectives	<i>support of land acquisition Project #1, possible economic development if plaza obtained</i>
<b>Implementing the Action</b>	
Priority	<i>Priority 2 High Phase 2</i>
Local planning mechanism	<i>Committee consisting of FEMA, State, Local officials</i>
Responsible party	<i>Council</i>
Potential funding sources	<i>FEMA funding, Grants, bond, mitigation funds</i>
Time line	<i>within the year of 2016</i>
<b>Reporting on Progress</b>	
Action progress status	<i>carried from last version (Priority 1 High-Phase 2), actively being worked on, should be in place within the year or early next year 2015</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Oceanport</i>
<b>Community action number</b>	<i>#4</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All</i>
<b>Risk finding</b>	<i>Locations used in major storm events for police operations, public works and/or sheltering do not have emergency generators for power. By the year 2040, it is projected to have a population increase of 35.9% over 2010 values -one of the highest rates in the county. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Protect critical facilities</i>
<b>Action type</b>	<i>aquisition of emergency genartors for critcical facilities</i>
<b>Action description</b>	<i>placement of two emergency generators at both schools in Borough used to supported emergency operations during severe weather events</i>
<b>Existing, future &amp;/or NA</b>	<i>NA</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>prevent injuries and loss of life by providing a location that first repsonders and public can go to for shelter during severe weather events. Based on future projections of increased water levels, increase in severe storm events, the preserving of life is priceless</i>
<b>Cost estimate</b>	<i>\$450,000 for both units (assuming a 20 year useful life, this is about \$22,500 per year)</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits estimated to be well in excess of project costs.</i>
<b>Technical</b>	<i>Technically feasible; Yes</i>
<b>Political</b>	<i>Political actions present in support of effort</i>
<b>Legal</b>	<i>No legal issues; agreements in place for building use.</i>
<b>Environmental</b>	<i>none anticipated; generators would be natural gas units;locations of generators and schools would not impact area</i>
<b>Social</b>	<i>no social impact; locations of generators and schools would not impact area</i>
<b>Administrative capability</b>	<i>Engineering</i>
<b>Local champion</b>	<i>Council and OEM; School Board</i>
<b>Other community objectives</b>	<i>Emergency operations plan; shelter</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Priority 2 Medium</i>
<b>Local planning mechanism</b>	<i>Local officials</i>
<b>Responsible party</b>	<i>Council, BOE and Enginnering</i>
<b>Potential funding sources</b>	<i>FEMA funding, Grants, bond, mitigation funds</i>
<b>Time line</b>	<i>witin the year of 2016</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action added since the last version of the plan. This was two Letters of Intent submitted in Feb 2013, marked as eligible, not funded; if funding in place within the year or early next year 2015</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Oceanport</i>
Community action number	<i>#5 (#5 is phase 1; #6 is phase 2)</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding from various weather events(Hurricane and tropical storms, nor'easter, storm surge, flood)</i>
Risk finding	<i>Stormwater infrastructure (particularly in the Port-au-Peck section) does not allow for efficient and effective drainage and flooding occurs.</i>
<b>Describing the Action</b>	
Action category	<i>Structure and Infrastructure Projects</i>
Action type	<i>Stormwater Drainage System Improvements</i>
Action description	<i><b>PHASE 1 of 2.</b> Phase 1 = Examination of present system to determine improvements needed. Video and actual physical examination of system to seek out problems and needed improvements. Phase 2= repairs and improvements to storm drain system to include backflow preventers on 44 outfalls .</i>
Existing, future &/or NA	<i>existing and future development</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Improvement to system will reduce roadway repairs and potential damage to property. Losses avoided are estimated to be roughly on the order of \$2 Mil per year. There are unquantifiable benefits associated with reduced emergency traffic control measurers, Police OT cost related to traffic control, normal traffic routes uninterrupted, reduced motor vehicle losses from water damage and associated life safety benefits.</i>
Cost estimate	<i>Phase 1 = \$150,000; Phase 2 = TBD based in examination in phase 1; back flow</i>
Cost effectiveness (i.e., benefit/cost)	<i>improvement to system will reduce roadway repairs and potential damage to propertyThis project is likely to be cost effective, with benefits of roughly \$2 Mil and costs of only \$1.1 Mi. Additional unqualifiable benefits as previously mentioned above.</i>
Technical	<i>Technically feasible; Yes</i>
Political	<i>Political actions presently in support of effort</i>
Legal	<i>No legal issues</i>
Environmental	<i>locations under consideration will not present environmental issues</i>
Social	<i>no social impact, would actually improve the community.</i>
Administrative capability	<i>Project management would be needed</i>
Local champion	<i>Council and Engineering</i>
Other community objectives	<i>flood plain management</i>
<b>Implementing the Action</b>	
Priority	<i>Priority 3 medium Phase 1</i>
Local planning mechanism	<i>Committee consisting Local officials and engineering</i>
Responsible party	<i>Engineering</i>
Potential funding sources	<i>FEMA funding, Grants, bond, mitigation funds</i>
Time line	<i>witin the year of 2015</i>
<b>Reporting on Progress</b>	
Action progress status	<i>carried from last verison,system cleaned after Sandy, but improvements still needed.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Oceanport</i>
Community action number	<i>#6 (#5 is phase 1; #6 is phase 2)</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding from various weather events(Hurricane and tropical storms, nor'easter, storm surge, flood)</i>
Risk finding	<i>Stormwater infrastructure (particularly in the Port-au-Peck section) does not allow for efficient and effective drainage and flooding occurs.</i>
<b>Describing the Action</b>	
Action category	<i>Structure and Infrastructure Projects</i>
Action type	<i>Stormwater Drainage System Improvements</i>
Action description	<i><b>PHASE 2 of 2.</b> Phase 1 = Examination of present system to determine improvements needed. Video and actual physical examination of system to seek out problems and needed improvements. Phase 2= repairs and improvements to storm drain system to include backflow preventers on 44 outfalls</i>
Existing, future &/or NA	<i>existing and future development</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>improvement to system will reduce roadway repairs and potential damage to property. Losses avoided are estimated to be roughly on the order of \$2 Mil per year</i>
Cost estimate	<i>Phase 1 = \$150,000; Phase 2 = TBD based in examination in phase 1; back flow preventers \$950,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>improvement to system will reduce roadway repairs and potential damage to property. This project is likely to be cost effective, with benefits of roughly \$2 Mil per year and costs of only \$1.1 Mil.</i>
Technical	<i>Technically feasible; Yes</i>
Political	<i>Political actions presently in support of effort</i>
Legal	<i>No legal issues</i>
Environmental	<i>locations under consideration will not present environmental issues</i>
Social	<i>no social impact, would actually improve the community.</i>
Administrative capability	<i>Project management would be needed</i>
Local champion	<i>Council and Engineering</i>
Other community objectives	<i>flood plain management</i>
<b>Implementing the Action</b>	
Priority	<i>Priority 3 medium Phase 2</i>
Local planning mechanism	<i>Committee consisting Local officials and engineering</i>
Responsible party	<i>Engineering</i>
Potential funding sources	<i>FEMA funding, Grants, bond, mitigation funds, State transportation fund</i>
Time line	<i>witin the year of 2016</i>
<b>Reporting on Progress</b>	
Action progress status	<i>carried from last verison, improvements to infrastructure still needed. Letter of Intent submitted 2/2013, marked eligible, not funded. If funded , next year or 2016</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Oceanport</i>
Community action number	<i>#7</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding from various weather events(Hurricane and tropical storms, nor'easter, storm surge, flood)</i>
Risk finding	<i>Debris/sediment accumulation on Turtle Mill Brook is believed to be impeding flood flows and causing flooding of roadways and adjacent properties</i>
<b>Describing the Action</b>	
Action category	<i>Natural Systems Protection</i>
Action type	<i>Protect and restore natural flood mitigation features</i>
Action description	<i>remove snagging and debris from floodway of Turtle Mill Brook</i>
Existing, future &/or NA	<i>Existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>This action will prevent future loss of property from flooding and keep roadways clear of flood waters. Losses avoided by the project are estimated to be \$2.5 Mil</i>
Cost estimate	<i>Under \$1 million</i>
Cost effectiveness (i.e., benefit/cost)	<i>Yes, this project is likely to be cost effective with estimated benefits of\$2.5 Mil as compared to costs of under \$1 million( if this is jointly done with County DPW under a program presently being operated)</i>
Technical	<i>Technically feasible; Yes</i>
Political	<i>Political actions present in support of effort</i>
Legal	<i>No legal issues; since stream is a natural border with adjoining town, might have to discuss impacts</i>
Environmental	<i>there are areas that will needed to be examined along the stream, but no major issues to be dealt with</i>
Social	<i>no social impact, most of this area is surrounded by commercial property and a few homes. A lot of vacant land borders the stream.</i>
Administrative capability	<i>Project management would be needed</i>
Local champion	<i>Engineering</i>
Other community objectives	<i>storm drain improvements</i>
<b>Implementing the Action</b>	
Priority	<i>Priority 4 Medium</i>
Local planning mechanism	<i>Local officials and County DPW; adjoining town on border with stream</i>
Responsible party	<i>Engineering</i>
Potential funding sources	<i>FEMA funding, Grants, bond, mitigation funds</i>
Time line	<i>witin the year of 2016</i>
<b>Reporting on Progress</b>	
Action progress status	<i>carried from last verison, discussions needed to be started with County</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Oceanport</i>
Community action number	<i>#8</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding from various weather events(Hurricane and tropical storms, nor'easter, storm surge, flood)</i>
Risk finding	<i>Roadway flooding occurs in certain areas due to issues with grading, roadway elevations themselves, and lack of backflow prevention .</i>
<b>Describing the Action</b>	
Action category	<i>Structure and infrastructure projects</i>
Action type	<i>Protect infrastructure</i>
Action description	<i>elevation of roadways, grading/curbing of flood prone streets</i>
Existing, future &/or NA	<i>Existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Improvement to system will reduce roadway repairs and potential damage to property. Losses avoided are estimated to be roughly on the order of \$3 million per year. Plus unquantifiable benefits associated traffic control and life safety benefits. Benefits found in Traffic rerouting measures ended, Police OT for traffic control, vehicle losses associated to water damage and safer access to area.</i>
Cost estimate	<i>Costs are estimated to be on the order of between \$1 million and \$3 million</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits on the order of \$3 Mil per year (plus unquantifiable benefits associated traffic control and life safetyas previously mentioned aboveand) and costs only on the order of between \$1 Mil and \$3 Mil.</i>
Technical	<i>Technically feasible; Yes</i>
Political	<i>Political actions presently in support of effort</i>
Legal	<i>No legal issues</i>
Environmental	<i>locations under consideration will not present environmental issues</i>
Social	<i>no social impact, would actually improve the community.</i>
Administrative capability	<i>Project management would be needed</i>
Local champion	<i>Council and Engineering</i>
Other community objectives	<i>floodplain management</i>
<b>Implementing the Action</b>	
Priority	<i>Priority 5 Low</i>
Local planning mechanism	<i>Committee consisting Local officials and engineering</i>
Responsible party	<i>Engineering</i>
Potential funding sources	<i>FEMA funding, Grants, bond, mitigation funds, State transportation fund</i>
Time line	<i>witin the year of 2016</i>
<b>Reporting on Progress</b>	
Action progress status	<i>carried over from last verison, improvements to infrastructure still needed.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Oceanport</i>
Community action number	<i>#2</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Tidal Flooding from various weather events(Hurricane and tropical storms, nor'easter, storm surge, flood)</i>
Risk finding	<i>Flooding occurs during extreme high tides; storm surge, covering property and roadways</i>
<b>Describing the Action</b>	
Action category	<i>Structure/ infrastructure projects</i>
Action type	<i>Protection of residential property and infrastructure</i>
Action description	<i>Physical barrier with a movable flood gate</i>
Existing, future &/or NA	<i>Existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>placement of a physical barrier with a moveable flood gate at the mouth of the Shrewsbury River would benefit 10 municipalities that border the river, saving \$1.8 billion dollars of flood impacted property in residential, commercial and governmental facilities; this figure does not include vehicles and boats; numerous lives. These ten towns reflect 4.69% of the total flood insurance coverage in NJ.</i>
Cost estimate	<i>\$500 million</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective or break even based on the value of property in 10 towns to the one time cost to develop a barrier.</i>
Technical	<i>Technically feasible; Yes</i>
Political	<i>Political actions would need to be brought into play from several fronts</i>
Legal	<i>legal issues could be present as to jurisdictional oversight</i>
Environmental	<i>locations under consideration will need environmental review</i>
Social	<i>no social impact, would actually improve the community.</i>
Administrative capability	<i>Project management would be needed</i>
Local champion	<i>Council/Public and Engineering</i>
Other community objectives	<i>floodplain management with the towns of Sea Brigdt, Monmouth Beach, Long Branch, Little Silver, Fair Haven, Rumson, Red Bank, Highlands, Middletown, all in Monmouth County</i>
<b>Implementing the Action</b>	
Priority	<i>Priority 3</i>
Local planning mechanism	<i>Committee consisting Federal/ State/ County/Local officials and engineering</i>
Responsible party	<i>Engineering</i>
Potential funding sources	<i>FEMA funding, Grants, bond, mitigation funds, State transportation fund</i>
Time line	<i>within the year of 2020</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New proposal</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Oceanport</i>
Community action number	<i>#10</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Improved access to Shrewsbury River at Blackberry Bay Park Boat ramp for emergency rescue craft from various agencies</i>
Risk finding	<i>Reduced access to Shrewsbury River from ramp at Blackberry Bay Park due to repetitive storm damage over years; condition is causing damage to watercraft</i>
<b>Describing the Action</b>	
Action category	<i>Critical Facility-Structure/ infrastructure projects</i>
Action type	<i>Access to river for lifesaving operations</i>
Action description	<i>Launching of watercraft from ramp providing access to river</i>
Existing, future &/or NA	<i>Existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The ramp would provide improved lifesaving operations by various agencies to include Coast Guard, NJ State Police and local first responders year around. At present, there are deficiencies with the ramp and bulkhead construction is presently causing damage to the watercraft. This area is also access for ice boat rescue in winter months</i>
Cost estimate	<i>\$525,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project has a large life safety component as well as the high value of boats using the river during the summer season. Estimate breakeven or high return.</i>
Technical	<i>Technically feasible; Yes</i>
Political	<i>Town is behind project</i>
Legal	<i>No Legal issues</i>
Environmental	<i>This is a replacement of a present structure; no issues</i>
Social	<i>no social impact, would actually improve the community.</i>
Administrative capability	<i>Project management would be needed</i>
Local champion	<i>Council/Public and Engineering; First Response Agencies</i>
Other community objectives	<i>While improving emergency access for first responders, it will also improve recreational boating access to river</i>
<b>Implementing the Action</b>	
Priority	<i>Priority 2</i>
Local planning mechanism	<i>Committee consisting Local officials and engineering</i>
Responsible party	<i>Engineering</i>
Potential funding sources	<i>FEMA funding, Grants, bond, mitigation funds, State transportation fund</i>
Time line	<i>within the year of 2017</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New proposal</i>

<b>Action Worksheet</b>	
Your plan name	Monmouth County Multi-jurisdictional Hazard Mitigation Plan
Your community name	Borough of Red Bank
Community action number	#1
<b>Assessing the Risk</b>	
Hazard(s) addressed	Flooding, storm surge, hurricanes, tropical storms, nor'easters
Risk finding	Several commercial properties, Primary School, residential units including a 90 bed convalescent center, and a Hotel all within the flood zone. Substantial surge will cause imminent damage to all structures in the flood zone unless structures are raised mitigated. During Hurricane Sandy, storm surge flooding was observed along the immediate shoreline of the Navesink and Swimming Rivers. The marina area was heavily impacted. The Red Bank Primary School located on the banks of the Swimming River, was flooded. The flooring was damaged significantly. Students of the primary school were transferred to the middle school, where split sessions were held for middle and primary school students while repairs were being made. The Chapin Hill nursing home and rehabilitation facility is located within the Swimming River floodplain. During Hurricane Sandy, storm surge entered the first floor of the building. The facility was also impacted during Hurricane Irene, when 80 residents were moved to the Salvation Army at Red Bank for temporary shelter. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.
<b>Describing the Action</b>	
Action category	Structure and Infrastructure Projects
Action type	At the discretion of facility owners, mitigation activities that will be explored for at-risk properties include: (a) removal of existing structures from flood hazard areas; (b) elevate or retrofit structures and utilities; and (c) floodproofing (wet floodproofing, dry floodproofing, ringwalls, etc.).
Action description	<b>The Borough does not own these properties or have jurisdiction over them. Our action will be to initiate contact with facility owners and work to educate them on various grant programs that can be used for mitigation, types of mitigation activities that could be applicable for their structures, determine their level of interest, and submit grant applications to FEMA on their behalf as funding streams become available.</b> Hotel, convalescent home, school and office building would be potential candidates for floodproofing (wet or dry floodproofing, ringwalls); elevation or retrofit of utilities; or relocation. Small commercial properties and the apartment complex could also be potential candidates for structure elevation.
Existing, future &/or NA	Existing (No future development planned for flood area. Existing is mostly commercial.)
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	Unable to determine benefits at this time, until owners select measures. Losses avoided as a result of the proposed measures will be highly dependent upon the particular building and the specific measure and level of protection being proposed. Overall, the benefits of protecting these properties are estimated to be very high. Red Bank has a total of 82 policies in force, insuring \$23,764,300 in property. FEMA's NFIP reports a total of \$4,977,758 in paid losses since Red Bank entered the NFIP. About 25% of this is attributable to the Borough's three nonresidential repetitive loss properties (\$1,317,438 in losses; building value of \$7,307,457).
Cost estimate	Unable to determine costs at this time, until owners select measures
Cost effectiveness (i.e., benefit/cost)	In general, losses avoided by projects of this nature are likely to outweigh costs if care is taken to optimize benefits and costs for various measures and levels of protection at each particular facility. It is likely that most floodprone properties could realize benefits in excess of costs for at least some form of mitigation activity.
Technical	Structure elevation not feasible for Hotel, Convalescent home, school, and Office building but is likely to be feasible for small commercial properties and Apartment complex. Wet/dry floodproofing, ringwalls, relocation, and utility elevation/retrofits should also be considered for floodprone properties that are not feasible for elevation depending on the as-to-be-determined preferences of owners and weighing of benefits versus costs. Relocation would be the ideal measure for facilities housing vulnerable populations.
Political	Political attentiveness for residential property. School board is handling their issues with the Primary School and has not partnered with the town. Public Works maintaining drainage and improvements for the same.
Legal	No legal authority.
Environmental	None anticipated.
Social	Would not cause relocation of lower income people in residential area affected
Administrative capability	Outside help would be needed.
Local champion	Commercial property owners.
Other community objectives	Further goals of participating in the National Flood Insurance Program
<b>Implementing the Action</b>	
Priority	High
Local planning mechanism	Mayor and Council
Responsible party	The borough needs to identify the position title of a party responsible for moving forward with this activity
Potential funding sources	Grants
Time line	Indefinite
<b>Reporting on Progress</b>	
Action progress status	New action

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Red Bank</i>
<b>Community action number</b>	<i>#2</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All hazards</i>
<b>Risk finding</b>	<i>The Borough lacks a means of notifying residents of impending severe weather in cases where methods of Media broadcasting or other conventional means of warning have been compromised. Red Bank's population is projected to increase by 10.1% by 2040</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Education/Awareness</i>
<b>Action type</b>	<i>communication tower</i>
<b>Action description</b>	<i>New communication tower replacing damaged one located at the Towerhill water plant on Towerhill Dr. Possibility of adding Radio frequency for use with battery transistors.</i>
<b>Existing, future &amp;/or NA</b>	<i>N/A</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The action will be successful in saving lives due to early warning of pending events that may require evacuation or other instructions that may need to be taken. Unable to quantify losses avoided over time as a result of improved alerting/warning, but we expect that through the years, individual protective activities and improved life/safety would account for a benefit at least equal to the estimated project costs of \$350,000</i>
<b>Cost estimate</b>	<i>350,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Yes. This project is likely to be Cost effective, with estimated benefits at least equal to project costs over the life the system.</i>
<b>Technical</b>	<i>Yes Technically Feasible</i>
<b>Political</b>	<i>Yes supported by both political and publicly</i>
<b>Legal</b>	<i>Borough has the authority to Implement.</i>
<b>Environmental</b>	<i>Complies with environmental regulations.</i>
<b>Social</b>	<i>Will not disrupt or negatively impact any segment of the population.</i>
<b>Administrative capability</b>	<i>Borough can regulate and operateservices.</i>
<b>Local champion</b>	<i>Local Police, Fire , and OEM</i>
<b>Other community</b>	<i>Will be maintained on current location. No impact on new development.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Construction regulated under current codes and regulations.</i>
<b>Responsible party</b>	<i>Stanley Sickels, Construction Official</i>
<b>Potential funding sources</b>	<i>Grants, Insurance, local budget.</i>
<b>Time line</b>	<i>18 months to 24 months.</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward - Tower is currently being constructed at the location.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Red Bank</i>
<b>Community action number</b>	<i>#3</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding, storm surge, hurricane, tropical storm, nor'easter, wave action</i>
<b>Risk finding</b>	<i>Flooding and wave action are a significant issue in the Marine Park area. Damages occurways. The existing bulkhead has been unable to prevent storm surges from damaging infrastructure, but has prevent wave induced erosion to the park.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural Project.</i>
<b>Action type</b>	<i>flood control measures</i>
<b>Action description</b>	<i>Drainage improvements, actions to maintain integrity of existing bulkhead. Bulkhead has been replaced and although structurally withheld the last 3 storm surges flooding still occurred. Also, electrical equipment needs to be relocated. Pump lift station operation for sewage was inoperative as a result of lost power and the fact that generators would be ineffective at grade due to the rise of water over the station itself. A "All Clay" public Tennis court approximately 30 yards from the bulkhead has been destroyed by the rising water from Sandy and has not yet been restored.</i>
<b>Existing, future &amp;/or NA</b>	<i>N/A</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Losses avoided by the project are estimated to be \$5,000,000</i>
<b>Cost estimate</b>	<i>4,000,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits of 4,000,000 exceeding costs of \$5,000,000</i>
<b>Technical</b>	<i>Yes technically feasible</i>
<b>Political</b>	<i>Supported politically and publicly.</i>
<b>Legal</b>	<i>Borough of Red Bank</i>
<b>Environmental</b>	<i>Does and will comply with environmental standards.</i>
<b>Social</b>	<i>No disruption</i>
<b>Administrative capability</b>	<i>Outside help</i>
<b>Local champion</b>	<i>Environmental and Borough</i>
<b>Other community objectives</b>	<i>Open space preservation.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Engineering</i>
<b>Responsible party</b>	<i>Mayor and Council</i>
<b>Potential funding sources</b>	<i>Grants</i>
<b>Time line</b>	<i>Constantly on going.</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Red Bank</i>
Community action number	<i>#4</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding during severe rain events such as severe storms, hurricanes and tropical storms, nor'easters</i>
Risk finding	<i>The existing water and sewer system does not allow for efficient and effective drainage and flooding occurs. Storm drains become overwhelmed and flood the streets. When the system is impaired, water can enter structures at the grade level.</i>
<b>Describing the Action</b>	
Action category	<i>Structure and infrastructure projects</i>
Action type	<i>Improve stormwater drainage system</i>
Action description	<i>Implement storm management maintenance plan for entire town. Perform regular sediment and debris clearance to help ensure that the system is kept unimpaired and therefore functioning properly.</i>
Existing, future &/or NA	<i>Existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>3,000,000</i>
Cost estimate	<i>The costs of this action are estimated to be approximately \$150,000 per year.</i>
Cost effectiveness (i.e., benefit/cost)	<i>This activity is likely to be cost-effective with benefits of 150,000 per year outweighing the costs of \$3,000,000 per year</i>
Technical	<i>Yes Feasible</i>
Political	<i>Supported politically and publicly</i>
Legal	<i>Borough of Red Bank has authority.</i>
Environmental	<i>Does and will comply with environmental standards.</i>
Social	<i>Will not disrupt the population.</i>
Administrative capability	<i>Borough DPW</i>
Local champion	<i>Borough of Red Bank elected Officials.</i>
Other community objectives	<i>Supports environmental quality.</i>
Priority	<i>Medium</i>
Local planning mechanism	<i>DPW</i>
Responsible party	<i>DPW Gary Watson, Director</i>
Potential funding sources	<i>Budget</i>
Time line	<i>Constant on going.</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Red Bank</i>
Community action number	<i>#5</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding during severe rain events such as severe storms, hurricanes and tropical storms, nor'easters</i>
Risk finding	<i>The existing water and sewer system is antiquated, in need of upgrades, and has areas where materials are decomposing. Failure of sewer system would cause biological and environmental harm to the residents and property of the Borough of Red Bank.</i>
<b>Describing the Action</b>	
Action category	<i>Structure and infrastructure projects</i>
Action type	<i>Drainage improvement.</i>
Action description	<i>Upgrade and replacement of all antiquated and decomposing materials and increase capacity where applicable</i>
Existing, future &/or NA	<i>Both future and existing.</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Benefits both the health of residents as well as preserve confidence in current systems capabilities. We expect that the losses avoided by implementing these upgrades and improvements could be on the order of &gt;10,000,000</i>
Cost estimate	<i>10,000,000</i>
Cost effectiveness	<i>This project is likely to be cost-effective. Losses avoided outweigh the cost of action</i>
Technical	<i>Yes, technically feasible.</i>
Political	<i>Supported politically.</i>
Legal	<i>Borough of Red Bank and TRSA</i>
Environmental	<i>Will comply with environmental regulations.</i>
Social	<i>Equal impact throughout Borough.</i>
Administrative capability	<i>Outside help is necessary.</i>
Local champion	<i>Borough of Red Bank Elected Officials</i>
Other community objectives	<i>sustains environmental quality</i>
<b>Implementing the Action</b>	
Priority	<i>Medium</i>
Local planning mechanism	<i>Engineering and DPW</i>
Responsible party	<i>Gary Watson DPW Director</i>
Potential funding sources	<i>Grants, Local staff, Time, and Budget.</i>
Time line	<i>5 years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-Jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Roosevelt</i>
<b>Community action number</b>	<i>1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Wildfires</i>
<b>Risk finding</b>	<i>Wildfires are of particular concern to Roosevelt because of wildfire risk areas both within and surrounding the Borough, given the relatively few number of roads in and out of town for egress.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>- Preparedness/Response</i>
<b>Action type</b>	<i>Expansion of fire house</i>
<b>Action description</b>	<i>Fire house, which is located on the borough hall property, would be expanded to accommodate a larger truck that could better deal with brush fires.</i>
<b>Existing, future &amp;/or NA</b>	<i>Protects existing development. Little or no future development is anticipated.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Having a fire truck available that could bring more water to a brush fire would facilitate its being extinguished sooner rather than later.</i>
<b>Cost estimate</b>	<i>Not yet determined. Grant applications will be filed.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>If the risk of destruction of woodlands and homes is reduced, the community will benefit accordingly. Roosevelt feels that this preparedness/response activity is likely to be cost effective.</i>
<b>Technical</b>	<i>Extending the fire house is technically feasible.</i>
<b>Political</b>	<i>There would be overall community support for this action.</i>
<b>Legal</b>	<i>The borough has authority to extend the firehouse, which is on property that it already owns.</i>
<b>Environmental</b>	<i>More effective control of any wildfires would better protect the woodlands in the community.</i>
<b>Social</b>	<i>There would be no adverse impact on any segment of the population.</i>
<b>Administrative capability</b>	<i>The borough has the necessary administrative capacity to have this construction done.</i>
<b>Local champion</b>	<i>The Roosevelt Volunteer Fire Company strongly advocates that this construction be done.</i>
<b>Other community objectives</b>	<i>This construction would further both environmental protection and public safety.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>high</i>
<b>Local planning mechanism</b>	<i>The Council and Planning Board will review the plans, as will the municipal engineer.</i>
<b>Responsible party</b>	<i>Carmela Roberts, Municipal Engineer</i>
<b>Potential funding sources</b>	<i>Grant funds, if they can be obtained</i>
<b>Time line</b>	<i>As soon as possible after funding is obtained</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New - Roosevelt did not participate in the last version of the plan.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-Jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Roosevelt</i>
<b>Community action number</b>	2
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Wildfires (secondary: extreme wind, hurricanes and tropical storms, nor'easters, winter storms)</i>
<b>Risk finding</b>	<i>Property owners dispose of brush infrequently and tend to leave it in the woods adjoining their properties</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Natural Systems Protection</i>
<b>Action type</b>	<i>- Fuels Management</i>
<b>Action description</b>	<i>Systematic removal of brush and dead trees. Collect brush more frequently and better enlist property owner cooperation. Improve collection services and public participation in disposal of brush. Have brush collection more frequently than once or twice a year and encourage property owners to clear brush from their properties and public lands adjoining their properties so that it can be collected. Incorporate inspection and management of hazardous trees near powerlines to realize secondary benefit for high wind events.</i>
<b>Existing, future &amp;/or NA</b>	<i>Protects existing development. Little or no future development is anticipated.</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Reduced risk of wildfire . Losses avoided are unquantifiable.</i>
<b>Cost estimate</b>	<i>Not yet determined. Grant applications will be filed. The cost of more frequent brush collection and disposal, and enlisting homeowner participation in more frequent brush removal will depend on how frequently it is done.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>If the risk of destruction of woodlands and homes is reduced, the community will benefit accordingly.Roosevelt feels that this action is likely to be cost effective.</i>
<b>Technical</b>	<i>Collecting brush more frequently and better enlisting property owner cooperation is technically feasible.</i>
<b>Political</b>	<i>There would be overall community support for this action.</i>
<b>Legal</b>	<i>The borough has the necessary legal authority to have this work done and to provide information to the public.</i>
<b>Environmental</b>	<i>More effective control of any wildfires would better protect the woodlands in the community.</i>
<b>Social</b>	<i>There would be no adverse impact on any segment of the population. No one would have to be relocated.</i>
<b>Administrative capability</b>	<i>The borough has the necessary administrative ability to have more frequent collections and to provide public information.</i>
<b>Local champion</b>	<i>The Roosevelt Volunteer Fire Company strongly supports anything that can be done to reduce the risk of fire.</i>
<b>Other community objectives</b>	<i>This brush collection and public information program would enhance public safety and better protect the environment.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>high</i>
<b>Local planning mechanism</b>	<i>Mayor and Council</i>
<b>Responsible party</b>	<i>Kelly Mitchell, Public Works Employee</i>
<b>Potential funding sources</b>	<i>Grant funds, if obtainable. Otherwise such other municipal revenue as may be available.</i>
<b>Time line</b>	<i>As soon as possible after funding is obtained</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New - Roosevelt did not participate in the last version of the plan.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-Jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Roosevelt</i>
Community action number	3
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Wildfires</i>
Risk finding	<i>Brush and dead trees accumi late in woodlands owned by the borough, the Monmouth County Park System, NJDEP, as well as in privately-owned woodlands.</i>
<b>Describing the Action</b>	
Action category	<i>Natural Systems Protection</i>
Action type	<i>-Fuels management</i>
Action description	<i>Participation in an anticipated program of the New Jersey Forest Fire Service for systematic removal of accumulated brush and dead trees from woodlands owned by the borough, the County Park Service, and NJDEP. Incorporate inspection and management of hazardous trees near powerlines to realize secondary benefit for high wind events.</i>
Existing, future &/or NA	<i>Protects existing development. Little or no future development is anticipated.</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Loss of woodlands and homes to wildfire. Losses avoided are unquantifiable.</i>
Cost estimate	<i>Not yet determined. The cost of more frequent brush collection and disposal, and enlisting homeowner participation in more frequent brush removal, would depend upon the frequency of collections.</i>
Cost effectiveness (i.e., benefit/cost)	<i>If the risk of destruction of woodlands and homes is reduced, the community will benefit accordingly. Roosevelt feels that this action is likely to be cost effective.</i>
Technical	<i>Systematic removal of accumulated brush and dead trees is technically feasible</i>
Political	<i>There would be overall community support for this action.</i>
Legal	<i>The borough has legal authority to cooperate with the NJ Forest Fire Service in a project of this nature.</i>
Environmental	<i>More effective control of any wildfires would better protect the woodlands in the community.</i>
Social	<i>There would be no adverse impact on any segment of the population. No one would have to be relocated.</i>
Administrative capability	<i>The borough has the necessary administrative capacity to cooperate with the NJ Forest Fire Service on this project.</i>
Local champion	<i>The Roosevelt Volunteer Fire Company strongly supports cooperation with the NJ Forest Fire Service on this project. They were the ones who brought it to the attention of the Mayor and Council</i>
Other community objectives	<i>This project would better protect both public safety and the environment.</i>
<b>Implementing the Action</b>	
Priority	<i>high</i>
Local planning mechanism	<i>Mayor and Council</i>
Responsible party	<i>Roosevelt Fire Department/Volunteer Fire Company</i>
Potential funding sources	<i>Grant funds, if they can be obtained</i>
Time line	<i>As soon as possible after funding is obtained. Borough awaits more information from the NJ Forest Fire Service.</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New - Roosevelt did not participate in the last version of the plan.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Rumson</i>
<b>Community action number</b>	<i>1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
<b>Risk finding</b>	<i>Roughly half of Rumson lies within mapped storm surge hazard areas. Hurricane Sandy's storm surge on the Shrewsbury and Navesink Rivers inundated a large area of Rumson, not previously recognized by local residents as particularly susceptible to surge. By far, the larger areas inundated were on the south side of the Borough along the Shrewsbury.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural</i>
<b>Action type</b>	<i>Home Elevation</i>
<b>Action description</b>	<i>Elevating of 32 homes to new FEMA FIRM maps</i>
<b>Existing, future &amp;/or NA</b>	<i>Protecting existing structures</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The proposed mitigation will result in reduced future storm damages to residential structures, personal property and protect public health and safety during future events. The total value of these properties is \$13,294,993.00</i>
<b>Cost estimate</b>	<i>\$5,340,000 for the elevation of 32 homes.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits on the order of \$13 million and costs on the order of \$5,340,000.</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by comissioners and the mayor</i>
<b>Legal</b>	<i>The community does have the legal authority to implement this project</i>
<b>Environmental</b>	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
<b>Social</b>	<i>Property owners may need to relocate while the home raising is implemented</i>
<b>Administrative capability</b>	<i>The community does have the personnel and homeowners will maintain projects</i>
<b>Local champion</b>	<i>Commisioners and the mayor</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents, additionally current code requires substantially damaged to elevate home</i>
<b>Responsible party</b>	<i>Homeowners and/or Borough Administrator</i>
<b>Potential funding sources</b>	<i>Private, ICC or FEMA SRL</i>
<b>Time line</b>	<i>Dependent upon municipality securing residential funding and code compliance, a start date has not been identified</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Rumson</i>
<b>Community action number</b>	2
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
<b>Risk finding</b>	<i>Roughly half of Rumson lies within mapped storm surge hazard areas. Hurricane Sandy's storm surge on the Shrewsbury and Navesink Rivers inundated a large area of Rumson, not previously recognized by local residents as particularly susceptible to surge. It is crucial to keep these roads accessible during storm events for possible evacuation and emergency services</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural</i>
<b>Action type</b>	<i>Construct a series of flood mitigation infrastructure improvements</i>
<b>Action description</b>	<i>Installation of new elevated bulkhead and a new tide valve at the western terminus of Washington Avenue; the installation of new tide valves at the eastern and western terminus of Grant Ave, the terminus of Waterman Ave, the midblock of Warren St, and the midblock of Waterman Ave; and construction of an earthen berm and associated grading above the existing bulkhead at the western and eastern terminus of Grant Ave., and western terminus of Waterman Ave.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Periodic flooding of the neighborhood due to high tides causes damage to private property and makes roads impassable, thereby prohibiting adequate access to the neighborhood for the public and emergency vehicles. The proposed infrastructure improvements will result in a significant decrease or elimination of tidal nuisance flooding in the neighborhood and provide significant public benefit, as it will protect private property and public health and safety. Losses avoided are estimated to be in the millions of dollars.</i>
<b>Cost estimate</b>	<i>\$135,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>The proposed infrastructure improvements will result in a significant decrease or elimination of tidal nuisance flooding in the neighborhood and provide significant public benefit, as it will protect private property and public health and safety This project is likely to be cost effective, with potential benefits in the millions of dollars and costs on the order of \$135,000.</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by comissioners and the mayor</i>
<b>Legal</b>	<i>The community does have the legal authority to implement this project</i>
<b>Environmental</b>	<i>There are no negative environmental impacts caused by this project and it will comply</i>
<b>Social</b>	<i>There are no negative social impacts from this project</i>
<b>Administrative capability</b>	<i>The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the project and construction</i>

<b>Local champion</b>	<i>Commisioners and the mayor</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
<b>Responsible party</b>	<i>Borough Administrator</i>
<b>Potential funding sources</b>	<i>FEMA Hazard Mitigation Grant, Borough funding, FEMA post disaster</i>
<b>Time line</b>	<i>Dependent upon municipality securing grant funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New Action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Rumson</i>
<b>Community action number</b>	3
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
<b>Risk finding</b>	<i>Roughly half of Rumson lies within mapped storm surge hazard areas. Hurricane Sandy's storm surge on the Shrewsbury and Navesink Rivers inundated a large area of Rumson, not previously recognized by local residents as particularly susceptible to surge. By far, the larger areas inundated were on the south side of the Borough along the Shrewsbury.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural</i>
<b>Action type</b>	<i>Construct or install improvements to eight (8) sanitary sewer pump stations within the Borough</i>
<b>Action description</b>	<i>Install emergency backup generators(Riverside, Club Way, Thorton Way, Navesink Ave.), Raise access, lids, covers, and vault chambers (Riverside, Club Way, Thorton Way, Navesink Ave., Buna Vista, Shrewsbury Drive), Install reinforced steel, rubber gasket lined storm doors(Marina, Grant Ave.)</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The proposed improvements will protect against pump station failure in the event of power loss and/or flooding and will ensure continued operation of the Borough's sanitary sewer system. Losses avoided could be as much as \$13,294,993.00 (number of homes damaged by flood waters times the average market value of homes in rumson). 'The proposed pump station improvements and backup generator installations will protect public health and safety and result in a significant cost savings to the Borough and homeowners.</i>
<b>Cost estimate</b>	<i>\$187,500.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likley to be cost effective, with benefits on the order of \$13 million and costs on the order of \$187,000.</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by comissioners and the mayor</i>
<b>Legal</b>	<i>The community does have the legal authority to implement this project</i>
<b>Environmental</b>	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
<b>Social</b>	<i>There are no social impacts from this project on the community</i>
<b>Administrative capability</b>	<i>The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the project and construction</i>
<b>Local champion</b>	<i>Commisioners and the mayor</i>
<b>Other community obiectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
<b>Responsible party</b>	<i>Borough Administrator</i>
<b>Potential funding sources</b>	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
<b>Time line</b>	<i>Actively constructing improvements, partially complete</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New Action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Rumson</i>
<b>Community action number</b>	4
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
<b>Risk finding</b>	<i>Roughly half of Rumson lies within mapped storm surge hazard areas. Hurricane Sandy's storm surge on the Shrewsbury and Navesink Rivers inundated a large area of Rumson, not previously recognized by local residents as particularly susceptible to surge. The DPW is crucial for emergency repairs during storm events and ensuring this building is accessible for emergency workers</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural</i>
<b>Action type</b>	<i>Install reinforced steel, rubber gasket-lined storm doors</i>
<b>Action description</b>	<i>The storm doors will be installed to the building's service bays to provide greater protection from wave action and flooding to the building's structure and contents</i>
<b>Existing, future &amp;/or NA</b>	<i>Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The improvements will reduce the vulnerability of the Department of Public Works garage to flood damage and will protect the equipment within the building from being damaged or destroyed. The storm door installation will result in significant cost savings to the Borough and will protect the health and safety of its residents as well as protect crucial equipment and vehicles for emergency repairs, assist borough emergency personnel and roadway debris removal. Losses avoided are estimated to be \$150,000 to \$250,000.</i>
<b>Cost estimate</b>	<i>\$75,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>The storm door installation will result in significant cost savings to the Borough and will protect the health and safety of its residents as well as protect crucial equipment and vehicles for emergency repairs, assist borough emergency personnel and roadway debris removal. This project is likely to be cost-effective, with benefits on the order of \$150,000 to \$250,000 and costs of only \$75,000</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by commissioners and the mayor</i>
<b>Legal</b>	<i>The community does have the legal authority to implement this project</i>
<b>Environmental</b>	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
<b>Social</b>	<i>There are no social impacts from this project on the community</i>
<b>Administrative capability</b>	<i>The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the project and construction</i>
<b>Local champion</b>	<i>Commissioners and the mayor</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>

<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
<b>Responsible party</b>	<i>Borough Administrator</i>
<b>Potential funding sources</b>	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
<b>Time line</b>	<i>Dependent upon municipality securing grant funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New Action</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Rumson</i>
Community action number	5
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
Risk finding	<i>Roughly half of Rumson lies within mapped storm surge hazard areas. Hurricane Sandy's storm surge on the Shrewsbury and Navesink Rivers inundated a large area of Rumson, not previously recognized by local residents as particularly susceptible to surge. By far, the larger areas inundated were on the south side of the Borough along Shrewsbury.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>Construct a series of flood mitigation infrastructure improvements</i>
Action description	<i>Installation of 150 linear feet of new elevated bulkhead, the rehabilitation and replacement of existing drainage pipes, and the installation of a new tide valve at the intersection of Shrewsbury Drive and Avenue of Two Rivers</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Experiences regular nuisance flooding due to high tides, and full moon tide. During these periods the intersection becomes impassable requiring detours to access areas east and west of the intersection. Losses avoided could range in the tens of thousands to hundreds of thousands of dollars per year</i>
Cost estimate	<i>\$382,500.00</i>
Cost effectiveness (i.e., benefit/cost)	<i>Reducing or eliminating the times during which the intersection is impassable due to flooding will provide a significant public benefit, as it will protect public health and safety by providing uninterrupted access to neighborhoods in the vicinity of the intersection. This project is likely to be cost effective, with benefits in the tens of thousands to hundreds of thousands of dollars per year, and total project costs of only \$382,500.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by comissioners and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>During road construction the intersection may be inaccessible</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the project and construction</i>
Local champion	<i>Commisioners and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>Moderate</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Borough Administrator</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, Borough funding, NJDOT</i>
Time line	<i>Dependent upon municipality securing grant funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Region II Mitigation Planning – Draft Handout 06 as of 02/22/13</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Rumson</i>
Community action number	6
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
Risk finding	<i>Roughly half of Rumson lies within mapped storm surge hazard areas. Hurricane Sandy's storm surge on the Shrewsbury and Navesink Rivers inundated a large area of Rumson, not previously recognized by local residents as particularly susceptible to surge.</i>
<b>Describing the Action</b>	
Action category	<i>Natural Resource Protection</i>
Action type	<i>Remove and replace existing underground diesel fuel storage tanks</i>
Action description	<i>Removal of two (2) existing underground diesel fuel storage tanks and install two (2) new above-ground diesel fuel storage tanks at the Borough's Department of Public Works Yard</i>
Existing, future &/or NA	<i>Future, Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Flooding has rendered the existing underground storage tanks inaccessible, and, in certain instances, has contaminated the diesel fuel stored in these tanks with flood waters, rendering the fuel unusable. This project will prevent this from happening.'The Borough has had to find alternative sources of diesel fuel after past storms because its underground storage tanks were inaccessible or fuel was contaminated which is very costly to the borough. This project will prevent these unnecessary costs for fuel and prevent environmental contamination. Losses avoided are estimated to be on the order of \$250,000 to \$500,000 in fuel losses, fuel shipping costs and contamination remediation.</i>
Cost estimate	<i>\$150,000.00</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits on the order of \$250,000 to \$500,000 and costs of only \$150,000.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by comissioners and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>There are no social impacts from this project on the community</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the project and construction</i>
Local champion	<i>Commisioners and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Borough Administrator</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
Time line	<i>Dependent upon municipality securing grant funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

## Action Worksheet

<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Rumson</i>
<b>Community action number</b>	<i>7</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge, Extreme Temperature</i>
<b>Risk finding</b>	<i>Roughly half of Rumson lies within mapped storm surge hazard areas. Hurricane Sandy's storm surge on the Shrewsbury and Navesink Rivers inundated a large area of Rumson, not previously recognized by local residents as particularly susceptible to surge. These areas were left without power including the shelter facility at Rumson Fair Haven Regional High School</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Emergency Power</i>
<b>Action type</b>	<i>Install emergency power</i>
<b>Action description</b>	<i>Upgrade shelter facility located at Rumson Fair Haven Regional High School, including emergency power facility</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The proposed improvements will ensure backup power in the event of primary power loss. This action is necessary to protect health and safety of individuals in Rumson Fair Haven Regional High School and those seeking shelter during natural disasters. Losses avoided could range from \$100,000 to \$150,000 per year.</i>
<b>Cost estimate</b>	<i>\$500,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>The proposed backup generator installations will protect public health and safety during natural disasters and prevent future losses. This project is likely to be cost effective, with benefits ranging from \$100,000 to \$150,000 each year, and total project costs of only \$500,000.</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by commissioners and the mayor</i>
<b>Legal</b>	<i>The community does have the legal authority to implement this project</i>
<b>Environmental</b>	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
<b>Social</b>	<i>There are no social impacts from this project on the community</i>
<b>Administrative capability</b>	<i>The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the project and construction</i>
<b>Local champion</b>	<i>Commissioners and the mayor</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
<b>Responsible party</b>	<i>Borough Administrator</i>
<b>Potential funding sources</b>	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
<b>Time line</b>	<i>Ongoing</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Rumson</i>
Community action number	8
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
Risk finding	<i>Cleaning and maintenance of streams and ponds. These are priority for the Borough in order to ensure property drainage of flood waters and to reduce flooding events in the Borough.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>Maintenance</i>
Action description	<i>Removal of debris and sediment accumulation in receiving waterways and creeks which impedes flood flows.</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Maintenance of these waterways is important to ensure proper drainage and protect health and safety of the borough residents. Losses avoided could be in the tens of thousands of dollars.</i>
Cost estimate	<i>\$5,000.00</i>
Cost effectiveness (i.e., benefit/cost)	<i>The proposed maintenance is important to ensure proper drainage and protect the health and safety of borough residents. This project is likely to be cost effective, with benefits in the tens of thousands of dollars and costs of only \$5,000.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by council and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>There are no negative social effects going forward with this project</i>
Administrative capability	<i>The community does have the personnel and administrative capability to maintain it.</i>
Local champion	<i>Council and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>Moderate</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Public Works, County Mosquito Commission</i>
Potential funding sources	<i>NRCS</i>
Time line	<i>The Borough continues to maintain these features through their existing capital budget</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Rumson</i>
Community action number	9
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Wind, Ice, Lightning, Hurricane and Tropical Storm, Nor'easter</i>
Risk finding	<i>'Downed trees on power lines contribute to power outages during severe storms with high winds such as nor'easter, hurricanes, and tropical storms, etc.</i>
<b>Describing the Action</b>	
Action category	<i>Maintenance</i>
Action type	<i>Tree trimming/pruning</i>
Action description	<i>Tree trimming and pruning to prevent downed power lines.</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Downed trees on power lines contribute to power outages during severe storms. The loss of power can be devastating to the community as was observed during Hurricane Sandy. The losses avoided due to loss of power can be in the hundreds of thousands to millions of dollars per year.</i>
Cost estimate	<i>\$135,000.00 / year</i>
Cost effectiveness (i.e., benefit/cost)	<i>Keeping the wildlife around power line structures properly maintained is very important in preventing the loss of power to the community as well as preventing injury to people as a result of downed power lines. This project is likely to be cost effective, with benefits on the order of hundreds of thousands to millions of dollars per year, and costs of only \$135,00 per year.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by comissioners and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are potential environmental impacts caused by this project, these will be considered and it will comply with all federal, state, and local regulations</i>
Social	<i>There are no social impacts from this project on the community</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it.</i>
Local champion	<i>Commisioners and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>Moderate</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Borough Administrator</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
Time line	<i>Ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Rumson</i>
Community action number	<i>10</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge, Extreme Temperature, Extreme Wind, Tornado</i>
Risk finding	<i>Potential storm events pose a threat to borough residents and ensuring that they are properly notified of incoming threats is important in protecting their health and safety</i>
<b>Describing the Action</b>	
Action category	<i>Education/Awareness</i>
Action type	<i>Maintain warning systems</i>
Action description	<i>Continue to maintain current warning systems that are already operational including website. AM radio, Reverse911 calling system and emergency siren alerting system.</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Warning systems are crucial in alerting the public of storm events, this project is proposed to protect the health and safety of the borough residents and ensure they are properly notified of incoming threats. Losses avoided could range from \$25,000 to \$50,000 per year</i>
Cost estimate	<i>\$5,000 per year</i>
Cost effectiveness (i.e., benefit/cost)	<i>Ensuring the safety of the borough inhabitants is of utmost importance, and by having an effective warning system in place and properly maintained we can help prevent injury and loss of life during these storm events. This project is likely to be cost effective, with benefits on the order of \$25,000 to \$50,000 per year and costs of only \$5,000 per year.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by commissioners and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no potential environmental impacts caused by this project, these will be considered and it will comply with all federal, state, and local regulations</i>
Social	<i>There are no social impacts from this project on the community</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it.</i>
Local champion	<i>Commissioners and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Borough Administrator</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
Time line	<i>Ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Rumson</i>
Community action number	<i>11</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
Risk finding	<i>Roughly half of Rumson lies within mapped storm surge hazard areas. Hurricane Sandy's storm surge on the Shrewsbury and Navesink Rivers inundated a large area of Rumson, not previously recognized by local residents as particularly susceptible to surge. By far, the larger areas inundated were on the south side of the Borough along the Shrewsbury River.</i>
<b>Describing the Action</b>	
Action category	<i>New Ordinance</i>
Action type	<i>Enact new FEMA flood maps as part of planning and zoning regulations</i>
Action description	<i>Enact new ordinance to adopt new FEMA flood maps</i>
Existing, future &/or NA	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The proposed mitigation will result in reduced future storm damages to residential structures, personal property and protect public health and safety during future storm events. This could potentially result in the reduction of Hundreds of thousands of dollars to millions of dollars to the borough in cleanup costs and millions to tens of millions of dollars in damages to private property</i>
Cost estimate	<i>\$5,000.00</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits on the order of tens of millions of dollars and costs of \$5,000</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by the council and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>Property owners may need to relocate while the home raising is implemented</i>
Administrative capability	<i>The community does have the personnel and homeowners will maintain projects</i>
Local champion	<i>Council and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Mayor and Council, Planning Board, Zoning Board</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
Time line	<i>Ongoing, Preliminary maps adopted</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New action</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Rumson</i>
Community action number	12
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge, Extreme Temperature</i>
Risk finding	<i>Roughly half of Rumson lies within mapped storm surge hazard areas. Hurricane Sandy's storm surge on the Shrewsbury and Navesink Rivers inundated a large area of Rumson, not previously recognized by local residents as particularly susceptible to surge. Many of these areas were left without power including Borough Hall.</i>
<b>Describing the Action</b>	
Action category	<i>Emergency Power</i>
Action type	<i>Install quick connection for portable generator</i>
Action description	<i>Setup quick connection system for portable generator with a manual switch gear.</i>
Existing, future &/or NA	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The proposed improvements will ensure backup power in the event of primary and secondary power loss. This action is necessary in order to protect health and safety of employees of the Borough of Rumson and continue coordinating relief efforts and maintain critical system functionality.</i>
Cost estimate	<i>\$10,000.00</i>
Cost effectiveness (i.e., benefit/cost)	<i>The proposed quick connection system installation will protect health and safety during natural disasters and keep Borough Hall fully functional and able to coordinate relief efforts.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by commissioners and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>There are no social impacts from this project on the community</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it.</i>
Local champion	<i>Commissioners and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>Moderate</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Borough Administrator</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
Time line	<i>Dependent upon municipality securing grant funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Rumson</i>
<b>Community action number</b>	<i>13</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge, Extreme Temperature</i>
<b>Risk finding</b>	<i>Roughly half of Rumson lies within mapped storm surge hazard areas. Hurricane Sandy's storm surge on the Shrewsbury and Navesink Rivers inundated a large area of Rumson, not previously recognized by local residents as particularly susceptible to surge. These areas were left without power for multiple days</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Emergency Power, Comfort Enhancement</i>
<b>Action type</b>	<i>Install Improvements to Enhance Bingham Hall Comfort Station</i>
<b>Action description</b>	<i>Upgrade Bingham Hall in Rumson to enhance comfort and provide an area of refuge. Install permanent generator, obtain comcast or Verizon FIOS Internet/TV service, Build Wifi network within building, equipment for portable device charging stations, purchase flat panel TV on mobile cart for news broadcasts.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The proposed improvements will ensure backup power in the event of primary power loss. This action is necessary to provide Borough residents with a safe and comfortable environment to seek temporary shelter during a storm event</i>
<b>Cost estimate</b>	<i>\$95,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>The proposed backup generator installations will protect public health and safety during natural disasters and prevent future losses.</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by comissioners and the mayor</i>
<b>Legal</b>	<i>The community does have the legal authority to implement this project</i>
<b>Environmental</b>	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
<b>Social</b>	<i>There are no social impacts from this project on the community</i>
<b>Administrative capability</b>	<i>The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the project and construction</i>
<b>Local champion</b>	<i>Commisioners and the mayor</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Moderate</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
<b>Responsible party</b>	<i>Borough Administrator</i>
<b>Potential funding sources</b>	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
<b>Time line</b>	<i>Dependent upon municipality securing grant funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New Action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Rumson</i>
<b>Community action number</b>	14
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge, Extreme Temperature, Extreme Wind, Tornado</i>
<b>Risk finding</b>	<i>Potential storm events pose a threat to borough residents and ensuring all public facilities such as buildings, pump stations and other critical facilities are functioning effectively is pivotal in mitigating flood related damages.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Remote Infrastructure Monitoring/Control</i>
<b>Action type</b>	<i>Upgrade Borough Wide SCADA system</i>
<b>Action description</b>	<i>Upgrade SCADA system to more efficiently and effectively control and monitor critical facilities such as pump stations, buildings, and other critical facilities and ensure proper functionality and quickly identify potential risks or problems.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>SCADA monitoring systems are extremely effective in remotely monitoring and collecting data from critical infrastructure and facilities. The upgrades to this system will allow for reduced response times for repair efforts, increased efficiency, and data gathering for future planning efforts. Losses avoided could be in the hundreds of thousands of dollars per year in damages from storm events.</i>
<b>Cost estimate</b>	<i>\$150,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Ensuring the safety of the borough inhabitants is of utmost importance. By having a SCADA system in place the Borough's critical infrastructure and facilities can be monitored and controlled from a safe location. This project is likely to be cost effective, with benefits on the order of hundreds of thousands of dollars per year and an initial cost of only \$150,000.</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by commissioners and the mayor</i>
<b>Legal</b>	<i>The community does have the legal authority to implement this project</i>
<b>Environmental</b>	<i>There are no potential environmental impacts caused by this project, these will be considered and it will comply with all federal, state, and local regulations</i>
<b>Social</b>	<i>There are no social impacts from this project on the community</i>
<b>Administrative capability</b>	<i>The community does have the personnel and administrative capability implement this action as well as maintain it.</i>
<b>Local champion</b>	<i>Commissioners and the mayor</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>

<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
<b>Responsible party</b>	<i>Borough Administrator</i>
<b>Potential funding sources</b>	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
<b>Time line</b>	<i>Dependent upon municipality securing grant funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New Action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Rumson</i>
<b>Community action number</b>	<i>15</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge, Extreme Temperature</i>
<b>Risk finding</b>	<i>Roughly half of Rumson lies within mapped storm surge hazard areas. Hurricane Sandy's storm surge on the Shrewsbury and Navesink Rivers inundated a large area of Rumson and heavy wind and rainfall caused power loss throughout the Borough including Oceanic Hook &amp; Ladder Fire House</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Emergency Power</i>
<b>Action type</b>	<i>Install emergency power</i>
<b>Action description</b>	<i>Install an emergency generator at Oceanic Hook &amp; Ladder Fire House</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The proposed improvements will ensure backup power in the event of primary power loss. This action is necessary to ensure that the Oceanic Hook &amp; Ladder Fire House stays operational in the event of a major disaster like Hurricane Sandy. Loss of power can delay first responders and in term lead to loss of life or additional damages.</i>
<b>Cost estimate</b>	<i>\$65,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>The proposed backup generator installations will protect public health and safety during natural disasters and prevent future losses. This project is likely to be cost effective, with a minimal total project cost of only \$65,000.</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by comissioners and the mayor</i>
<b>Legal</b>	<i>The community does have the legal authority to implement this project</i>
<b>Environmental</b>	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
<b>Social</b>	<i>There are no social impacts from this project on the community</i>
<b>Administrative capability</b>	<i>The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the project and construction</i>
<b>Local champion</b>	<i>Commisioners and the mayor</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
<b>Responsible party</b>	<i>Borough Administrator</i>
<b>Potential funding sources</b>	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
<b>Time line</b>	<i>Dependent upon municipality securing grant funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New Action</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Rumson</i>
Community action number	16
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
Risk finding	<i>Roughly half of Rumson lies within mapped storm surge hazard areas. Hurricane Sandy's storm surge on the Shrewsbury and Navesink Rivers inundated a large area of Rumson, not previously recognized by local residents as particularly susceptible to surge.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>Construct a series of flood mitigation infrastructure improvements</i>
Action description	<i>Rehabilitate and upgrade the existing drainage system to increase capacity and decrease flooding at the South end of Club Way and at the intersection of Holly Tree Lane and Evergreen Drive</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Experiences regular nuisance flooding due to heavy rainfall and high tides. During these periods the areas become impassable and delay emergency response times. Losses avoided could range in the tens of thousands to hundreds of thousands of dollars per year in vehicle, infrastructure damage, debris removal, and maintenace costs.</i>
Cost estimate	<i>\$205,000.00</i>
Cost effectiveness (i.e., benefit/cost)	<i>Reducing or eliminating the times during which the areas are impassable due to flooding will provide a significant public benefit, as it will protect public health and safety by providing uninterrupted access to neighborhoods in the vicinity of the areas. This project is likely to be cost effective, with benefits in the tens of thousands to hundreds of thousands of dollars per year, and total project costs of only \$205,000.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by comissioners and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>During road construction the roadway may be inaccessible</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the project and construction</i>
Local champion	<i>Commisioners and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>Low</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Borough Administrator</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
Time line	<i>Dependent upon municipality securing grant funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Rumson</i>
Community action number	17
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
Risk finding	<i>Roughly half of Rumson lies within mapped storm surge hazard areas. Hurricane Sandy's storm surge on the Shrewsbury and Navesink Rivers inundated a large area of Rumson including the Rumson boat Launch, nearby DPW Yard, Police Station and Borough Hall. The shore along the boat launch endured significant erosion during Hurricane Sandy and is now causing drainage issues on site.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>Construct Bulkheading</i>
Action description	<i>Installation of 225 linear feet of new bulkhead at the Rumson Boat Launch.</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Installation of bulkhead will reduce flooding in the area, prevent further erosion of the shoreline soils and prevent future roadway deterioration. Due to the close proximity of critical facilities such as the DPW yard, Borough Hall and Police Station, it is imperative that these facilities stay operational during a storm event.</i>
Cost estimate	<i>\$450,000.00</i>
Cost effectiveness (i.e., benefit/cost)	<i>Installing a bulkhead at this location will prevent future flood loss and prevent erosion of soils into the Navesink River. This project is likely to be cost effective with a total project cost of \$450,000.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by commissioners and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>There are no social impacts from this project on the community</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the project and construction</i>
Local champion	<i>Commissioners and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>Low</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Borough Administrator</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
Time line	<i>Dependent upon municipality securing grant funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Rumson</i>
Community action number	<i>18</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge, Extreme Temperature, Extreme Wind, Tornado</i>
Risk finding	<i>After Hurricane Sandy the Borough received a large influx of development permits for home and business repairs. The Borough was not adequately equipped to handle such an influx which in term delayed repair efforts.</i>
<b>Describing the Action</b>	
Action category	<i>Planning</i>
Action type	<i>Zoning and Construction Permit Automation</i>
Action description	<i>Provide the Borough with an automated and expedited system for zoning and construction permit administration.</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Providing the Borough with an automated permit administration system will speed up the process for issuing a zoning or construction permit. This addition will allow for a faster start to recovery efforts and reduce the amount of time home owners or business owners are out of their homes or out of work.</i>
Cost estimate	<i>\$50,000.00</i>
Cost effectiveness (i.e., benefit/cost)	<i>There was a significant lag time after Hurricane Sandy for issuing zoning and construction permits in the Borough due to high volume of permit applications. The addition of this system will reduce this lag time and allow residents and business owners to start repair efforts as soon as possible. Residents will be able to move back into their houses sooner and avoid costly temporary relocation expenses.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by comissioners and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no potential environmental impacts caused by this project, these will be considered and it will comply with all federal, state, and local regulations</i>
Social	<i>There are no social impacts from this project on the community</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it.</i>
Local champion	<i>Commisioners and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>Moderate</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Borough Administrator</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, DCA Funding, Borough funding</i>
Time line	<i>Ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Rumson</i>
Community action number	19
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge, Extreme Temperature, Extreme Wind, Tornado</i>
Risk finding	<i>Hurricane Sandy was a storm far more devastating than ever previously planned for withing the Borough. Revisions to the current plan are necessary to incorporate updated emergency response planning.</i>
<b>Describing the Action</b>	
Action category	<i>Planning</i>
Action type	<i>Revision and Updates to Rumson Emergency Operations Plan</i>
Action description	<i>Prepare an update to the Emergency Operations Plan (EOP) for the Borough of Rumson.</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Updates and revisions will identify flood hazard-specific risk areas and evacuation routes, specify provisions and protocols for warning the public and disseminating emergency public information, and specify the types of protective equipment and detection devices for responders.</i>
Cost estimate	<i>\$26,000.00</i>
Cost effectiveness (i.e., benefit/cost)	<i>Ensuring the Borough has the proper protocols in place for an emergency situation such as Hurricane Sandy could prevent future damages, injury or loss of life.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by comissioners and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no potential environmental impacts caused by this project, these will be considered and it will comply with all federal, state, and local regulations</i>
Social	<i>There are no social impacts from this project on the community</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it.</i>
Local champion	<i>Commisioners and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Borough Administrator</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, DCA Funding, Borough funding</i>
Time line	<i>Ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Rumson</i>
<b>Community action number</b>	20
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
<b>Risk finding</b>	<i>Hurricane Sandy devastated shore towns in New Jersey sparking the need for flood insurance across the state, however, flood insurance is extremely costly.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Planning</i>
<b>Action type</b>	<i>Enter FEMA CRS Program</i>
<b>Action description</b>	<i>Provide planning services to enter the Borough of Rumson into the FEMA Community Rating System for reduced flood insurance rates.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Besides the benefit of reduced insurance rates, CRS floodplain management activities enhance public safety, reduce damages to property and public infrastructure, avoid economic disruption and losses, reduce human suffering, and protect the environment.</i>
<b>Cost estimate</b>	<i>\$50,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>With benefits as high as a 45% reduction to insurance rates on top of the enhancement to public safety and potential reduction in future damages and losses, the \$50,000.00 cost is very minor.</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by commissioners and the mayor</i>
<b>Legal</b>	<i>The community does have the legal authority to implement this project</i>
<b>Environmental</b>	<i>There are no potential environmental impacts caused by this project, these will be considered and it will comply with all federal, state, and local regulations</i>
<b>Social</b>	<i>There are no social impacts from this project on the community</i>
<b>Administrative capability</b>	<i>The community does have the personnel and administrative capability implement this action as well as maintain it.</i>
<b>Local champion</b>	<i>Commissioners and the mayor</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Moderate</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
<b>Responsible party</b>	<i>Borough Administrator</i>
<b>Potential funding sources</b>	<i>FEMA Hazard Mitigation Grant, DCA Funding, Borough funding</i>
<b>Time line</b>	<i>Ongoing</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New Action</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Rumson</i>
Community action number	21
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge, Extreme Temperature, Extreme Wind, Tornado</i>
Risk finding	<i>The Borough of Rumson has a large network of utilities and infrastructure which has been installed and repaired over the past century. Currently there is no comprehensive inventory of said infrastructure and utilities which is readily available to the Borough. In order for the Borough to properly prepare for future weather events it is imperative we know where these systems are, what condition they are in and what they service.</i>
<b>Describing the Action</b>	
Action category	<i>Planning</i>
Action type	<i>Develop GIS Database/Inventory</i>
Action description	<i>Develop GIS Database/Inventory of Borough owned infrastructure.</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>By preparing a GIS database the Borough can effectively plan for future infrastructure improvements and repairs by having an intelligent basemap which includes data from various existing infrastructure and utilities. The ability to plan improvement programs around the data which is obtained and mapped on GIS can prevent hundreds of thousands to millions of dollars in potential future damages from weather events.</i>
Cost estimate	<i>\$100,000.00</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is cost effective, with benefits in the hundreds of thousands to millions of dollars in potential future damages and a cost of only \$100,000.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by commissioners and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no potential environmental impacts caused by this project, these will be considered and it will comply with all federal, state, and local regulations</i>
Social	<i>There are no social impacts from this project on the community</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it.</i>
Local champion	<i>Commissioners and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Borough Administrator</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, DCA Funding, Borough funding</i>
Time line	<i>Ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Sea Bright</i>
<b>Community action number</b>	<i>Sea Bright 1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Wind, Storm Surge, Wave Action, Hurricane, Nor'easter</i>
<b>Risk finding</b>	<i>Virtually all of Sea Bright lies within mapped storm surge hazard areas. The Borough of Sea Bright was almost entirely inundated during Hurricane Sandy. A large number of homes were flooded during Hurricane Sandy where their first floors were below the base flood elevation. Some also incurred wave damage. Those that were substantially damaged or destroyed must be rebuilt to code, effectively elevating them, but those that were not substantially damaged that did not face the elevation requirement as a condition of rebuilding would be good candidates for an elevation project if they have not already opted to do so. A large number of homes were flooded during Hurricane Sandy where their first floors were below the base flood elevation. Some also incurred wave damage. Those that were substantially damaged or destroyed must be rebuilt to code, effectively elevating them, but those that were not substantially damaged that did not face the elevation requirement as a condition of rebuilding would be good candidates for an elevation project if they have not already opted to do so. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural Project</i>
<b>Action type</b>	<i>Home Elevation</i>
<b>Action description</b>	<i>Elevation of approximately 700 homes, 114 homes are on the Repetitive Loss List. The Borough has identified these homes as severely damaged after Hurricane Sandy. A majority of the homes on the repetitive loss list are located west of NJSH Route 36, on the river side, between Osborne Place and Peninsula Avenue. The Borough is seeking funding to provide financial assistance to Borough residents seeking to elevate their homes. The elevations of these homes are currently below the new Advisory Base Flood elevations (ABFEs) established by FEMA and adopted by the State of New Jersey after Hurricane Sandy.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The proposed mitigation activities will result in the reduction in damages to residential structures and personal property and will protect public health and safety. The median home value for homes in the Borough of Sea Bright is \$547,100, based on the 2010 Census data; therefore raising the homes is the most viable option for residents. For the cost of purchasing one home, about three will be able to be elevated. Losses avoided are estimated to be roughly \$382,970,000.</i>
<b>Cost estimate</b>	<i>\$105,000,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits of roughly \$382,970,000 and costs of only \$105,000,000.</i>
<b>Technical</b>	<i>Technically feasible. Flooding problem in downtown and repetitive loss would be eliminated.</i>
<b>Political</b>	<i>The Borough Council is committed to supporting the implementation of this project and has already included the newly adopted ABFE as a requirement for new construction elevations to prevent flooding in the future. The community also supports this.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>The project will comply with environmental regulations.</i>
<b>Social</b>	<i>Does not adversely affect any particular social group.</i>
<b>Administrative capability</b>	<i>Will utilize Borough staff, but outside help would be necessary for volume of work.</i>
<b>Local champion</b>	<i>Yes. Borough Council.</i>
<b>Other community objectives</b>	<i>No.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Land use administration, planning boards, zoning officer, flood plain manager</i>
<b>Responsible party</b>	<i>C. Read Murphy, OEM Coordinator</i>
<b>Potential funding sources</b>	<i>local staff time, CBDG, Federal funding, all available grants will be pursued.</i>
<b>Time line</b>	<i>31-Dec-16</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried over. Zoning and planning initiatives and technical support are moving forward. Lack of funding limits actions able to be taken.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Sea Bright</i>
<b>Community action number</b>	<i>Sea Bright 2</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Winh, Flooh, Storm surge, wave action, Hurricane, Nor'easter, environmental</i>
<b>Risk finding</b>	<i>Gaps in the bulkheads (physical gaps, differences in the level of protection, and sections of deteriorated condition) along the Shrewsbury River result in an inconsistent line of protection and subsequent flooding. The bulkhead along the Shrewsbury River is privately owned and varies in height. The subject properties regularly become inundated with water due to flooding, which creates public health hazards, causes loss of use and income, property damage, emergency response and unnecessary burden.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural Project</i>
<b>Action type</b>	<i>Flood proofing/ Bulkhead</i>
<b>Action description</b>	<i>The scope of this project is completing the bulkhead by raising 2600 feet from the south side of the Rumson Road Bridge to Osborne Place, along both private and public property, and installing additional four (4) Storm water pump stations at each street end, adding tide flex valves to all the outfalls within the project area. The Borough is seeking to raise the bulkhead elevation to 7.0ft NAVD 88, to protect these properties from the 25 year storm event.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The bulkhead along the Shrewsbury River is privately owned and varies in height. The subject properties regularly become inundated with water due to flooding, which creates public health hazards, causes loss of use and income, property damage, emergency response and unnecessary burden. The goal of the project is to create a continuous barrier that will reduce the areas vulnerable to flooding. This project would complete the bulkhead raising along the Shrewsbury River and installation of Storm water pump stations in accordance with the "Shrewsbury River: Sea Bright, NJ Flood Risk Management Study" completed by the Army Corps of Engineers. This area is prone to tidal flooding during less severe storms, increasing the bulkhead height will reduce the repetitiveness of flooding that occurs regularly for a large portion of the community; thereby reduce claims under the National Flood Insurance Program. Losses avoided as a result of this project could be roughly \$20,000,000.</i>
<b>Cost estimate</b>	<i>\$10,286,600 [ \$7,571,600 (plus easements to raise the bulkhead on the private and public properties) and \$2,715,000 for four (4) additional storm water pump stations. Additionally, there will be a cost to acquire the easements on private property ]</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits of roughly \$20,000,000 and costs of roughly \$10,286,600.</i>
<b>Technical</b>	<i>Technically feasible. Flooding problem solved long term; community's problem of business interruption solved.</i>
<b>Political</b>	<i>The Borough has participated in this program before and the Council continues to support it.</i>
<b>Legal</b>	<i>Easements needed.</i>
<b>Environmental</b>	<i>There are no environmental issues in town.</i>
<b>Social</b>	<i>Does not adversely affect any particular social group.</i>
<b>Administrative capability</b>	<i>Would use Borough resources and technical assistance from State to manage.</i>
<b>Local champion</b>	<i>Borough Council</i>
<b>Other community objectives</b>	<i>Economical Development Protect</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Borough Engineer, Borough Council, OEM</i>
<b>Responsible party</b>	<i>C. Read Murphy, OEM Coordinator</i>
<b>Potential funding sources</b>	<i>This project does not qualify for CDBG, HMP is prominent funding source for project.</i>
<b>Time line</b>	<i>Funding Dependent</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried over from past year. Updates to plans - see LOI submitted to County.</i>

## Action Worksheet

<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Sea Bright</i>
<b>Community action number</b>	<i>Sea Bright 3</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Wind, Storm Surge, wave action, Hurricane, Nor'easter, environmental</i>
<b>Risk finding</b>	<i>The Sea Wall extends along most of the eastern portion of the community, there are missing segments and discontinuity along the length of the wall. As a result, areas of the Borough are vulnerable and exposed to water damage and flooding during storm surges. Route 36 is an evacuation route and must be protected from flooding surge and erosion. It is of particular importance in Sea Bright because of its location on the very narrow spit of land between the Shrewsbury River and the Atlantic Ocean.</i>
<b>Action category</b>	
<b>Action category</b>	<i>Structural Project, Infrastructure project, Natural Resource Protection</i>
<b>Action type</b>	<i>Structural Project</i>
<b>Action description</b>	<i>To rehabilitate and complete the Sea Wall</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Losses avoided (i.e., benefits)</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>By providing a continuous barrier along the waterfront it will strengthen the protection from storm surges for the entire community and limit the access points of the storm water into the Borough. Losses avoided by this project are estimated to be roughly \$35,000,000.</i>
<b>Cost estimate</b>	<i>\$15,366,500</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits of roughly \$35,000,000 and costs of roughly \$15,366,500.</i>
<b>Technical</b>	<i>Technically feasible. Flooding problem throughout town would be addressed and mitigated to a degree.</i>
<b>Political</b>	<i>The Borough Council and community support protecting the residents by pursuing this project.</i>
<b>Legal</b>	<i>No apparent legal issues</i>
<b>Environmental</b>	<i>No adverse environmental effects.</i>
<b>Social</b>	<i>Does not adversely affect any particular social group.</i>
<b>Administrative capability</b>	<i>Will need multiple people to administer (after technical assistance from State and Professionals)</i>
<b>Local champion</b>	<i>Borough Council</i>
<b>Other community objectives</b>	<i>Business district protection</i>
<b>Priority</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Mayor and Council, with State and Federal Authorities</i>
<b>Responsible party</b>	<i>C. Read Murphy, OEM Coordinator</i>
<b>Potential funding sources</b>	<i>Army Corps of Engineers and HMP funds</i>
<b>Time line</b>	<i>30-May-16</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New. State as lead agency preparing to interact and engage federal agencies.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Sea Bright</i>
<b>Community action number</b>	<i>Sea Bright 4</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, winh, storm surge, wave action, hurricane, nor'easter, environmental</i>
<b>Risk finding</b>	<i>Virtually all of Sea Bright lies within mapped storm surge hazard areas. Homes are repetitively damaged due to flooding and storm surge, as is the Downtown District. The Borough of Sea Bright was almost entirely inundated during Hurricane Sandy. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Action category</b>	
<b>Action category</b>	<i>Structure/ Infrastructure/Economic Development Project</i>
<b>Action type</b>	<i>Flood Proofing</i>
<b>Action description</b>	<i>Flood proofing to a minimum of 35 buildings in the Downtown District. These businesses have been identified by the Borough as severely damaged after Hurricane Sandy. Many of the buildings (18) are also listed on the 2011 Repetitive Loss List. The Downtown District is located along Ocean Avenue (US Highway 36) between Peninsula Avenue and Osborne Place. The Borough is seeking funding to provide financial assistance to businesses in order to provide flood proofing to their buildings.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Losses avoided (i.e., benefits)</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The goal of this flood proofing project is to protect the properties from flood inundation and flood hazards of the Shrewsbury River and Atlantic Ocean, to reduce the need for emergency services during flood events, and to reduce or eliminate repetitive flooding of these buildings, thereby reducing claims under the National Flood Insurance Program. Losses avoided by this project are estimated to be roughly \$11,000,000.</i>
<b>Cost estimate</b>	<i>\$5,250,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>In an effort to prevent future damage to the commercial district of the Borough and keep businesses open, the Borough is pursuing flood proofing for businesses. This is the most viable option to provide protection from future flooding because elevating buildings will cause the businesses to close while the building is raised and result in limited accessibility once it is completed. Providing flood proofing to these buildings will maintain these businesses and reduce any future closings due to repetitive flooding issues. The project is likely to be cost effective, with benefits on the order of \$11,000,000 and costs only on the order of \$5,250,000.</i>
<b>Technical</b>	<i>Technically feasible. Flooding problem in downtown area solved for the long-term; community's problem of business interruption solved.</i>
<b>Political</b>	<i>The Borough Council, business owners and residents support this project.</i>
<b>Legal</b>	<i>No apparent legal issues</i>
<b>Environmental</b>	<i>No adverse environmental effects</i>
<b>Social</b>	<i>Does not adversely affect any particular social group.</i>
<b>Administrative capability</b>	<i>Borough resources would be used with technical assistance from the State</i>
<b>Local champion</b>	<i>Borough Council, Businesses of Sea Bright</i>
<b>Other community objectives</b>	<i>Supports Borough's economic development plan</i>
<b>Priority</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Flood plain Manager, Zoning Officer, Borough Council, Planning Board</i>
<b>Responsible party</b>	<i>C. read Murphy, OEM Coordinator</i>
<b>Potential funding sources</b>	<i>Pursuing all grant opportunities available</i>
<b>Time line</b>	<i>31-Dec-16</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New.</i>

## Action Worksheet

<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Sea Bright</i>
<b>Community action number</b>	<i>Sea Bright 5</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Winh, StormsSurge, wave action, Hurricane, Nor'easter, environmental</i>
<b>Risk finding</b>	<i>Sea Bright is located on the barrier; its beacd is eroding. Hurricane Sandy hestroyeh the hune system in Sea Bright. Tde Borougd das been rebuilhing the berms to add protection for the beacd, local resihences anh businesses.</i>
<b>Action category</b>	<i>Structmral Project, Infrastructure project, Natural Resource Protection</i>
<b>Action type</b>	<i>Structural Project</i>
<b>Action description</b>	<i>Constructing berms to protect vulnerable areas</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future</i>
<b>Losses avoided (i.e., benefits)</b>	<i>Hurricane Sandy destroyed the dune system in Sea Bright, exposing the local residences and businesses and leaving them vulnerable to flooding and storm surge. The construction of emergency berms provides a level of protection for these properties and rebuilds the essential dune system. Losses avoided by the project could be as high as \$20,000,000 .</i>
<b>Cost estimate</b>	<i>\$300,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>By providing a continuous barrier along the waterfront it will strengthen the protection from storm surges for the entire community and limit the access points of the storm water into the Borough. The project is expected to be cost-effective, with benefits as high as \$20,000,000 and costs of only \$300,000.</i>
<b>Technical</b>	<i>Technically feasible. Protection for local residences, businesses and NJSH Route 36 corridor.</i>
<b>Political</b>	<i>The Borough Council and community support this project and have used Borough resources on this work.</i>
<b>Legal</b>	<i>No apparent legal issues</i>
<b>Environmental</b>	<i>No adverse environmental effects. Working around piping plover season. Working with State to monitor this.</i>
<b>Social</b>	<i>Does not adversely affect any particular social group.</i>
<b>Administrative capability</b>	<i>Borough staff is used.</i>
<b>Local champion</b>	<i>Borough Council</i>
<b>Other community objectives</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Mayor and Council, Department of Public Works, OEM</i>
<b>Responsible party</b>	<i>C. Read Murphy, OEM Coordinator</i>
<b>Potential funding sources</b>	<i>FEMA, State grants</i>
<b>Time line</b>	<i>30-May-16</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried over. Work is almost completed.</i>

## Action Worksheet

<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Sea Bright</i>
<b>Community action number</b>	<i>Sea Bright 6</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Wind, Storm Surge, wave action, Hurricane, Nor'easter, Tropical Storm, Winter Storm, Lightning, tornado, environmental</i>
<b>Risk finding</b>	<i>The effects of digid winhs and flooding have taken their toll on the above-ground power utilities, and outages during severe storms are fairly common. Power outages affect residents, businesses, and the ability of the Borough to provide critical services and perform emergency functions. Above ground transmission systems undergo repeated cycles of damage, repair and reconstruction. Due to the constant exposure to storms, Sea Bright has had extensive damage to the utility service by falling poles and the loss of power from downed transmission lines. Underground utility service can be more reliable than overhead service. The transmission poles throughout the Borough are part of a larger grid system serving much of coastal Monmouth County and Sandy Hook. By increasing resiliency, there will be fewer outages.</i>
<b>Action category</b>	<i>Structure and Infrastructure Projects</i>
<b>Action type</b>	<i>Protect Electrical Infrastructure</i>
<b>Action description</b>	<i>Underground Electrical Infrastructure</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Losses avoided (i.e., benefits)</b>	<i>Due to the location and the exposure to storms, the utilities in Sea Bright will be more reliable and will reduce interruptions to service. This will also eliminate some of the repairs preformed. Losses avoided as a result of the project are estimated to be on the order of \$200,000 per year. (The damage to utilities sustained durring Sandy were significantly higher. While the town has frequent outages, they do not require costly repairs - it is more of an interruption of business and operational capacity)</i>
<b>Cost estimate</b>	<i>Preliminary estimates provided to the Borough were: \$100/foot for single-phase residential service; \$200/foot for three-phase commercial service; and \$300/foot for the transmission service that extends the length of Ocean Avenue and beyond. This represents total costs on the order of about \$10,000,000. Divided by a # 50 year expected useful life, this represents an annual cost of roughly \$200,000 per year.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits at least equal to project costs.</i>
<b>Technical</b>	<i>Discussing with utility companies if this is feasible. Discussions are ongoing.</i>
<b>Political</b>	<i>The Borough Council and community support protecting the residents by pursuing this project.</i>
<b>Legal</b>	<i>No apparent legal issues</i>
<b>Environmental</b>	<i>No adverse environmental effects.</i>
<b>Social</b>	<i>Does not adversely affect any particular social group.</i>
<b>Administrative capability</b>	<i>Will need multiple people to administer (after technical assistance from State and Professionals)</i>
<b>Local champion</b>	<i>Sea Bright 2020, Mayor and Council</i>
<b>Other community objectives</b>	
<b>Priority</b>	<i>medium</i>
<b>Local planning mechanism</b>	<i>Mayor and Council, Sea Bright 2020</i>
<b>Responsible party</b>	<i>C. Read Murphy, OEM Coordinator</i>
<b>Potential funding sources</b>	<i>CDBG, Federal and State grants</i>
<b>Time line</b>	<i>30-May-16</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried over. Working with Sea Bright 2020 to develop plan to present to JCP&amp;L. Looking for funding sources.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Sea Girt Borough</i>
Community action number	<i>1 - Baltimore Boulevard Outflow Pipe Extension</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, Storm Surge, Hurricanes, Tropical Storms, Nor'easters</i>
Risk finding	<i>The Baltimore Blvd outflow pipe gets clogged with sand and debris due to its location and therefore backs up catch basin drainage for the middle easterly portion of town</i>
<b>Describing the Action</b>	
Action category	<i>Infrastructure projects</i>
Action type	<i>Flood Control</i>
Action description	<i>Extend the outflow pipe past the mean high tide mark well into the tidal ocean and raised to a point it will not clog with sand.</i>
Existing, future &/or NA	<i>existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Flooded roadways and personal property of the homeowner would be avoided. 'There are at least 20 homes in this areas which have had flooding in the past that are directly effected and man hours needed to close streets due to flooding would be a cost savings. At an average in the last flooding - which was major of 30,000 per home in damage x 15 homes = 450k. (annual)</i>
Cost estimate	<i>1.3 million to extend the outflow pipe</i>
Cost effectiveness (i.e., benefit/cost)	<i>The savings would pay for themselves in three years and improve public safety of the roadways. We believe this would be a cost effective project, with benefits of \$450,000 per year and costs of \$1.3 million total.</i>
Technical	<i>technically feasible</i>
Political	<i>no apparent issues</i>
Legal	<i>no apparent issues</i>
Environmental	<i>no adverse issues</i>
Social	<i>does not adversely effect any social group</i>
Administrative capability	<i>with the state dep, army corps of engineers and borough engineers that will be tasked with the work, two administrative people will be necessary to administer from the borough end</i>
Local champion	<i>homeowners happy to have flooding reduced</i>
Other community objectives	<i>mitigates the problem and increases value of the properties with decreased flooding</i>
<b>Implementing the Action</b>	
Priority	<i>high</i>
Local planning mechanism	<i>borough ordinance related to beachfront and CaFra permitting</i>
Responsible party	<i>Borough and Army Corps of Engineers</i>
Potential funding sources	<i>HMGP grant and 25% borough match</i>
Time line	<i>one year (proposed for 2015 - post beach replenishment)</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward (2009 plan's action 2)</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	Monmouth County Multi-jurisdictional Hazard Mitigation Plan
<b>Your community name</b>	Sea Girt Borough
<b>Community action number</b>	2 - Elevation of homes
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Flooding, storm surge, wave action, hurricane and tropical storms, nor'easter
<b>Risk finding</b>	The Borough of Sea Girt would like to apply for funding on behalf of the residents of the Borough of Sea Girt that are located within a flood zone. Currently we have two residents that have requested assistance through the Borough for means of applying for HMGP grant monies of elevating their homes damaged by Hurricane Sandy and its storm surge. We believe that many homeowners suffered great damage within the Borough by flood waters and the need to raise and elevate these homes in flood zones is critical to the protection and safety of the Borough homeowners. Approximately 15% of our 1263 homeowners within the Borough are located in flood zones as established by the FEMA flood mapping system. Our Borough suffered greatly along the beachfront and the south end of town from flooding of storm surge, tidal flooding and encroachment of water from neighboring Sea Girt National Guard Training Center property which abuts the Stockton Lake tidal body of water. We believe that great damage done to and hazardous situations that exist with homes on standard foundations in these effected areas could be greatly reduced. These homes if elevated and built to current codes and standards within the flood zones and in accordance with flood management programs and protection guidelines would have suffered less damage. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	We are currently working with the Borough Engineering staff on identifying these homes and educating the residents on flood control and elevation of such property. We believe that due to our coastal location, our low lying areas within the Borough and our neighboring areas that border the low lying National Guard Training Center - we are a perfect candidate to be considered for the elevation request within this grant program.
<b>Action description</b>	Raising of 189 homes above BFE to coincide with the FEMA Flood Mapping and directives. Variances will be allowed on height of homes in flood areas to place foundations above floodplain.
<b>Existing, future &amp;/or NA</b>	existing
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Personal property of the homeowner would be avoided. Raising of the homes in the areas designated would prevent future loss of property. There are 189 homes located in these areas. During Hurricane Sandy there were not 189 homes damaged to this extensive level within the Borough. The amount of damage while unknown to the Borough can be fairly certain that it did not exceed anywhere near the 20 million dollars it will take to raise the homes. Losses avoided cannot be quantified at this time.
<b>Cost estimate</b>	There are 189 homes located in these areas. The average home in this area has a 2000 square foot footprint and is 5000 to 10,000 square foot home overall. The cost per house to raise and elevate in accordance with the standards set forth by FEMA and the flood management guidelines is approximately \$110,000.00. This amount times the homes in the areas that total 189 equals a cost to raise and elevate the homes at \$ 20,790,000. Thus our request for funding of this project on behalf of the residents of the Borough is \$20,790,000.00
<b>Cost effectiveness (i.e., benefit/cost)</b>	Benefit/cost is not able to be concluded at this time and at this time there was only interest from one resident to raise his home. Elevation is likely to be cost effective, however, for the subset of most at-risk structures. Two properties in Sea Girt were on the NFIP Repetitive Loss list as of March 2014.
<b>Technical</b>	technically feasible
<b>Political</b>	no apparent issues
<b>Legal</b>	variances will be allowed on height of homes in flood areas to place foundations above floodplain.
<b>Environmental</b>	No adverse issues
<b>Social</b>	does affect the quality of life of neighbors and residents in these areas. Construction and pile driving will effect quality of life however hopefully increase property values.
<b>Administrative capability</b>	borough enginners, code enforcement, building department and outside contractors that will be tasked with the work, four adminsitrative persons will be necessary to administer from the borough end
<b>Local champion</b>	homeowners happy to have flooding reduced as well as a great savings and protection for the homeowner to mitigate future flooding and damage.
<b>Other community objectives</b>	mitigates the problem and increases value of the properties with decreased flooding
<b>Implementing the Action</b>	
<b>Priority</b>	high
<b>Local planning mechanism</b>	borough ordinance related to beachfront and CaFra permitting as well as compliance with local building codes and state directives
<b>Responsible party</b>	Homeowners
<b>Potential funding sources</b>	HMGP grant and 25% homeowner match
<b>Time line</b>	mutiple years
<b>Reporting on Progress</b>	
<b>Action progress status</b>	Carried forward (2009 plan's action 1)

## Action Worksheet

<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Sea Girt Borough</i>
<b>Community action number</b>	<i>3 - Generators - CIS need</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All hazards</i>
<b>Risk finding</b>	<i>There are critical infrastructure buildings within the Borough that are not able to be used during a disaster or a loss of power. Sea Girt would like to add a <b>generator</b> to its <b>Department of Public Works</b> buildings and upgrade generators at the Water Treatment Plant and Municipal Building that also serves as headquarters for the Borough's Police and Fire Departments. These buildings are critical to the operation of our DPW, water treatment plant and Police and Fire emergency services provided to Borough residents. The DPW facility houses the mechanic shop, fueling station for the natural gas vehicles, six garage bays for vehicles that are housed and charged inside the building. We had numerous needs over the course of the two week period as we had no power within the Borough during Hurricane Sandy. Vehicles that needed mechanic work and or needed to enter and exit the garages with equipment were unable to do so or have work done to them. The loss of equipment use and or ability to operate out of the DPW yard was critical to the life and safety during the storm. Every vehicle was put into service and the DPW yard without power was a significant loss to our efforts to protect the citizens within the Borough. It is critical to the health and welfare of Borough residents to have access to potable water that is provided by the Water Treatment Plant. Fire Headquarters housed in the Municipal Building provided food and shelter for Borough residents during Superstorm Sandy and Police services were also coordinated from this location</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Infrastructure projects</i>
<b>Action type</b>	<i>Generators - CIS need</i>
<b>Action description</b>	<i>Install generators at the Borough CIS buildings that need to operate during disasters and loss of power.</i>
<b>Existing, future &amp;/or NA</b>	<i>existing and future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Critical borough operations are not halted during emergency situations. Power to necessary buildings maintains order within the Borough. Losses avoided are difficult to quantify but are estimated to be well in excess of project costs of 45,000.</i>
<b>Cost estimate</b>	<i>45,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>The Cost effectiveness would come from the smooth operation of the Borough during emergencies and not having to contract out for help, repairs(whatever can not be done in house) and the need for the Borough to have its CIS buildings work during storms. Benefits are estimated to be well in excess of project costs.</i>
<b>Technical</b>	<i>technically feasible</i>
<b>Political</b>	<i>no apparent issues</i>
<b>Legal</b>	<i>no apparent issues</i>
<b>Environmental</b>	<i>No adverse issues</i>
<b>Social</b>	<i>Affects the well being of the Borough and its residents</i>
<b>Administrative capability</b>	<i>Assessing the Risk</i>
<b>Local champion</b>	<i>Borough Council, School, Police and Fire Officials</i>
<b>Other community objectives</b>	<i>mitigates the problem and keeps the Borough operating</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>high</i>
<b>Local planning mechanism</b>	<i>Resolution for contractors and permitting where applicable</i>
<b>Responsible party</b>	<i>Borough and contracted parties</i>
<b>Potential funding sources</b>	<i>HMGP grant and 25% borough match</i>
<b>Time line</b>	<i>one year (proposed for 2014)</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward (2009 plan's action 5)</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Sea Girt Borough</i>
<b>Community action number</b>	<i>2 - New Alert Horn and Siren System</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All Hazards</i>
<b>Risk finding</b>	<i>The Borough sustained almost 14 days with out power and getting messages to the Borough residents and persons of interest was crucial to the life and safety well being of our residents. We believe we have some of the necessary infrastructure such as antenna mounting and generator power to house such means of communication. We are currently working with the Borough Engineering staff on proper placement and locations of such. The Borough has and had no means of contacting residents as well as persons driving through the town during this Hurricane of any impending danger or hazardous situation.</i>
<b>Action category</b>	<i>Emergency Public Awareness</i>
<b>Action type</b>	<i>Alert Horn and Siren</i>
<b>Action description</b>	<i>The Borough of Sea Girt would like to improve the notification to residents by the addition of and installation in key areas of town of a new generation electronic horn and public address system. Our neighboring town Manasquan Borough has this system stationed throughout its town and is able to not only alert the town of impending danger and hazard by means of an electronic horn and tones BUT also by means of voice messages rebroadcast back over the electronic horn. This proved very effective during the Hurricane to notify residents by mass messaging over the public address system. We believe this would be a perfect fit for a town our size both in the beachfront, low lying areas and areas west of the railroad tracks in and around the school. Similar size towns like ours – one square mile – have multiple posted horn locations to maximize coverage and so the residents can hear the voice message. We are currently working with the Borough Engineering staff on proper placement and locations of such. The Borough has and had no means of contacting residents as well as persons driving through the town during this Hurricane of any impending danger or hazardous situation. It is a weakness we hope to correct by means of funding through the Grant Program. These Siren Horn units would serve as a main means of communicating the needed information during power outages and prolonged periods of danger and hazard. In addition to the town and residents – our messages would also serve the National Guard Training Center which is housed in Sea Girt Borough and is in a flood zone and low lying area of the Borough.</i>
<b>Existing, future &amp;/or NA</b>	<i>existing and future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The cost savings would come from the door to door alert means we do now during outages and emergencies. Hundreds of volunteer hours were spent in dangerous life threatening conditions warning and following up with residents before, during and after the hurricane. This could all have been aided and in many cases alleviated by a system of this nature. Losses avoided are estimated to be roughly on the order of \$15,000 per year.</i>
<b>Cost estimate</b>	<i>\$200,000 (useful life = 15 years; annual cost = \$13,300 per year)</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits on the order of \$15,000 per year and costs of \$13,300 per year.</i>
<b>Technical</b>	<i>technically feasible</i>
<b>Political</b>	<i>no apparent issues</i>
<b>Legal</b>	<i>no apparent issues</i>
<b>Environmental</b>	<i>No adverse issues</i>
<b>Social</b>	<i>Effects the well being of the Borough and its residents</i>
<b>Administrative capability</b>	<i>with outside contractors and borough engineers that will be tasked with the work, one administrative person will be necessary to administer from the borough end</i>
<b>Local champion</b>	<i>Borough Council, School, Police and Fire Officials</i>
<b>Other community objectives</b>	<i>mitigates the problem and keeps the public and residents immediately informed</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>high</i>
<b>Local planning mechanism</b>	<i>Resolution for contractors and permitting where applicable</i>
<b>Responsible party</b>	<i>Borough and contracted parties</i>
<b>Potential funding sources</b>	<i>HMGP grant and 25% borough match</i>
<b>Time line</b>	<i>one year (proposed for 2014)</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward (2009 plan's action 5)</i>

Action Worksheet	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Sea Girt Borough</i>
Community action number	<i>5 - New Emergency signage: (1) portable and (2) permanent</i>
Assessing the Risk	
Hazard(s) addressed	<i>All Hazards</i>
Risk finding	<i>The Borough sustained almost 14 days with out power and getting messages to the Borough residents and persons of interest was crucial to the life and safety well being of our residents. We believe we have some of the necessary infrastructure such as antenna mounting and generator power to house such means of communication. We are currently working with the Borough Engineering staff on proper placement and locations of such. The Borough has and had no means of contacting residents as well as persons living through the town during this Hurricane of any impending danger or hazardous situation.</i>
Describing the Action	
Action category	<i>Infrastructure</i>
Action type	<i>Alert of residents</i>
Action description	<i>The Borough of Sea Girt wishes to improve the notification to residents and persons traveling through the Borough roadways by two different means of information: (1) portable, and (2) permanent. (1) PORTABLE - A Portable Sign Trailer that has a message board on it to notify persons of hazardous conditions and unsafe situations. This portable message board would be used by Sea Girt Borough Emergency Management to warn residents of impending life threatening conditions, flooding, hazardous conditions and with the mobility of such be able to 'notify residents of impending danger, hazardous conditions and that the area they are in will flood. The Borough has and had no means of contacting residents as well as persons driving through the town during this Hurricane of any impending danger or hazardous situation. It is a weakness we hope to correct by means of funding through the Grant Program. These signs would serve as a main means of communicating the needed information during power outages and prolonged periods of danger and hazard. In addition to the town and residents – our messages would also serve the National Guard Training Center which is housed in Sea Girt Borough and is in a flood zone and low lying area of the Borough. We tried to use one of these during the Hurricane and were unable to secure one from a neighboring town as everyone's were in use.</i>
	<i>(2) PERMANENT. The Borough also has certain areas that during Hurricane Sandy flooded and are considered Flood Zones. We wish to install permanent signs powered by solar energy to notify residents of impending danger, hazardous conditions and that the area they are in will flood. We are currently working with the Borough Engineering staff on proper placement and locations of such permanent signage. The Borough has and had no means of contacting residents as well as persons driving through the town during this Hurricane of any impending danger or hazardous situation. It is a weakness we hope to correct by means of funding through the Grant Program. These signs would serve as a main means of communicating the needed information during power outages and prolonged periods of danger and hazard. In addition to the town and residents, our messages would also serve the National Guard Training Center which is housed in Sea Girt and is in a flood zone and low lying area of the Borough.</i>
Existing, future &/or NA	<i>existing and future</i>
Evaluating the Action	
Losses avoided (i.e., benefits)	<i>Residents are warned of anything during power outages and emergencies related to storms. Residents would be warned and informed during heightened states of emergency and power outages. Cost savings would come from the door to door alert means we do now. We expect this would be greater than project costs (\$70,000).</i>
Cost estimate	<i>70,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>Likely to be cost effective, with benefits in excess of project costs.</i>
Technical	<i>technically feasible</i>
Political	<i>no apparent issues</i>
Legal	<i>no apparent issues</i>
Environmental	<i>No adverse issues</i>
Social	<i>Affects the well being of the Borough and its residents</i>
Administrative capability	<i>with outside contractors and borough engineers that will be tasked with the work, one administrative person will be necessary to administer from the borough end</i>
Local champion	<i>Borough Council, School, Police and Fire Officials</i>
Other community objectives	<i>mitigates the problem and keeps the public and residents immediately informed</i>
Implementing the Action	
Priority	<i>high</i>
Local planning mechanism	<i>Resolution for contractors and permitting where applicable</i>
Responsible party	<i>Borough and contracted parties</i>
Potential funding sources	<i>HMGF grant and 25% borough match</i>
Time line	<i>one year - proposed for 2014</i>
Reporting on Progress	
Action progress status	<i>Carried forward (2009 plan's action 5)</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Sea Girt Borough</i>
<b>Community action number</b>	<i>6 - AM Radio Station</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All hazards</i>
<b>Risk finding</b>	<i>We would like to douse and operate our own Borough AM radio station. We would like to house this in the Boro Hall/Police HQ building which is run by generator. During Hurricane Sandy we were fortunate to be able to piggy back messages on the back end of The Borough of Manasquan's AM station. This proved only minimally effective. Their message took up the bulk of the time on the air. Our Borough and their Borough have and had many different messages to go out and we were 100% relying on them to get our updates out. Their station was not easy to get to and our messages were not put out in a manner we had hoped. The Borough sustained almost 14 days with out power and getting messages to the Borough residents and persons of interest was crucial to the life and safety well being of our residents. We believe we have some of the necessary infrastructure such as antenna mounting and generator power to house such means of communication. We are currently working with the Borough Engineering staff on proper placement and locations of such. The Borough has and had no means of contacting residents as well as persons driving through the town during this Hurricane of any impending danger or hazardous situation. It is a weakness we hope to correct by means of funding through the Grant Program. This AM radio station would serve as a main means of communicating the needed information during power outages and prolonged periods of danger and hazard. In addition to the town and residents – our messages would also serve the National Guard Training Center which is housed in Sea Girt Borough and is in a flood zone and low lying area of the Borough.</i>
<b>Action category</b>	<i>Education and awareness</i>
<b>Action type</b>	<i>Emergency Public Awareness - Communications / notifications</i>
<b>Action description</b>	<i>AM Radio Station for communication of vital information to residents</i>
<b>Existing, future &amp;/or NA</b>	<i>N/A</i>
<b>Losses avoided (i.e., benefits)</b>	<i>Residents are warned of anything during power outages and emergencies related to storms. The Residents would be warned and informed during heightned states of emergency and power outages. While a cost can not be put on immediate notification, the cost savings would come from the door to door alert means we do now during outages and emergencies We found the AM radio during Sandy was beneficial. losses avoided is not quantifiable, but with an expected useful life of 25 years, the value of a well-informed public and Borough officials would exceed the annual projected cost of \$2,000.</i>
<b>Cost estimate</b>	<i>\$50,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>The Residents would be warned and informed during heightned states of emergency and power outages.. While a cost can not be put on immediate notification, the cost savings would come from the door to door alert means we do now during outages and emergencies We found the AM radio during Sandy was beneficia. Losses avoided is not quantifiable, but with an expected useful life of 25 years, the value of a well-informed public and Borough officials would exceed the annual projected cost of \$2,000.</i>
<b>Technical</b>	<i>technically feasible</i>
<b>Political</b>	<i>no apparent issues</i>
<b>Legal</b>	<i>no apparent issues</i>
<b>Environmental</b>	<i>No adverse issues</i>
<b>Social</b>	<i>Affects the well being of the Borough and its residents</i>
<b>Administrative capability</b>	<i>with ouside contractors and borough enginners that will be tasked with the work, one adminsitratve person will be necessary to administer from the borough end</i>
<b>Local champion</b>	<i>Borough Council, public,</i>
<b>Other community objectives</b>	<i>mitigates the problem and keeps the public and residents immediately informed</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>high</i>
<b>Local planning mechanism</b>	<i>Resolution for contractors and permitting where applicable</i>
<b>Responsible party</b>	<i>Borough and contracted parties</i>
<b>Potential funding sources</b>	<i>HMGP grant and 25% borough match</i>
<b>Time line</b>	<i>To be determined depending on grant funding available</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward (2009 plan's action 5)</i>

## Action Worksheet

<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Sea Girt</i>
<b>Community action number</b>	<i>7</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding in the low-lying areas surrounding Wreck Pond</i>
<b>Risk finding</b>	<i>Wreck Pond , located at the north terminus of Sea Girt between the Borough and Spring Lake, was originally open to the Atlantic Ocean, allowing for drainage during periods of peak rainfall. Just after the 1997 beach replenishment project, the east end of the Pond was closed off.As a result, the properties adjacent to the Pond are at a greater risk of flooding.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Infrastructure project</i>
<b>Action type</b>	<i>Reopen the east end of the Pond to allow for flow between the Pond and the Ocean</i>
<b>Action description</b>	<i>Spring Lake has obtained funds to reopen the Pond to allow for flow between the Pond and the Ocean.The Borough of Sea Girt role will be to provide in-kind assistance during the implementation phase of the project.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Reduce flooding in the northeast section of the Borough, minimizing damage to existing homes.</i>
<b>Cost estimate</b>	<i>\$2,000,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Preventing flooding in the four communities adjacent to the Pond (Spring Lake, Spring Lake Heights, Wall Twp. And the Borough of Sea Girt where property losses in Spring Lake alone have cost in excess of \$20,000,000 in flood claims over the last 10 to 15 years.</i>
<b>Technical</b>	<i>Technically feasible - the plans have been drafted and the project has started.</i>
<b>Political</b>	<i>No apparent issues</i>
<b>Legal</b>	<i>No apparent issues</i>
<b>Environmental</b>	<i>Improve the water quality of the Pond along with reducing flooding of adjacent properties.</i>
<b>Social</b>	<i>Affects the quality of life of residents in the four communities adjacent to the Pond</i>
<b>Administrative capability</b>	<i>Administrative oversight</i>
<b>Local champion</b>	<i>Governing bodies of Sea Girt, Spring Lake, Spring Lake Heights and Wall Twp.</i>
<b>Other community objectives</b>	<i>Mitigate an on-going problem during times of peak rainfall</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High - currently in process</i>
<b>Local planning mechanism</b>	<i>Plans to reopen the east end have already been drafted and are being implemented</i>
<b>Responsible party</b>	<i>Borough of Spring Lake, with cooperation and support from the Boroughs of Sea Girt, Spring Lake Heights and the Twp. Of Wall</i>
<b>Potential funding sources</b>	<i>Sources of funding have already been identified and 75% of the funding is approved</i>
<b>Time line</b>	<i>Within one year to completion</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Sea Girt</i>
Community action number	<i>8 - Wreck Pond Dredging</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, Hurricanes, Tropical Storms, Nor'easters</i>
Risk finding	<i>Sediment loading into the eastern end of the Pond has reduced the impoundment capacity of the Pond.</i>
<b>Describing the Action</b>	
Action category	<i>Infrastructure</i>
Action type	<i>Flood Control</i>
Action description	<i>Continue to work with DEP, Spring Lake, Spring Lake Heights and Wall Township and Monmouth County to bring the project to completion</i>
Existing, future &/or NA	<i>Existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Minimize flooding in Spring Lake and Sea Girt at the eastern end of the Pond</i>
Cost estimate	<i>Unknown</i>
Cost effectiveness (i.e., benefit/cost)	<i>Dredging sediment from the eastern end will create greater impoundment area and prevent repetitive flooding in this area</i>
Technical	<i>Technically feasible</i>
Political	<i>No apparent issues</i>
Legal	<i>No apparent issues</i>
Environmental	<i>Finding a suitable disposal site for dredged material could be an issue</i>
Social	<i>Reduced risk benefits the community</i>
Administrative capability	<i>Participation with other stakeholders to ensure project is completed</i>
Local champion	<i>Governing bodies of Spring Lake, Sea Girt, Spring Lake Heights and Wall Twp., DEP, Monmouth County</i>
Other community objectives	<i>Mitigate problem</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Continue to work with DEP, Spring Lake, Spring Lake Heights and Wall Township to bring the project to completion</i>
Responsible party	<i>Shared responsibility with all stakeholders</i>
Potential funding sources	<i>Army Corps of Engineers, DEP, Monmouth County, HMGP and adjacent communities</i>
Time line	<i>Two years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Shrewsbury Borough</i>
<b>Community action number</b>	<i>1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All hazards</i>
<b>Risk finding</b>	<i>Police department, dispatch center, evacuation shelter and OEM EOC are on limited back up power in the event of power outage</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Infrastructure project</i>
<b>Action type</b>	<i>Obtain an emergency generator</i>
<b>Action description</b>	<i>Obtain a 350 kW emergency generator for the municipal building housing essential services.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Power outages lasting up to 10 days are frquent especially during severe storms. Extension cords are typically run to portions of the building without power. Emergency Operations Center has limited capability and efectiveness. 163 maximum occupancy room can be used as a shelter. OEM EOC can be effectively operated. Current generator will be relocated to department of public works where there is no backup power at all.Losses avoided are estimated to be \$45,000 for initial DPW generator and between \$2,000-\$3,000 per occurence in shelter costs.</i>
<b>Cost estimate</b>	<i>\$95,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits estimated to be on the order of \$45,000 for initial DPW generator and between \$2,000-\$3,000 per occurence and one time costs of \$95,000</i>
<b>Technical</b>	<i>Technically feasible.</i>
<b>Political</b>	<i>Entire town council supports the project.</i>
<b>Legal</b>	<i>No legal issues.</i>
<b>Environmental</b>	<i>No environmental issues.</i>
<b>Social</b>	<i>None.</i>
<b>Administrative capability</b>	<i>Oversight by Borough Engineer</i>
<b>Local champion</b>	<i>Police Department, Office of Emergency Management</i>
<b>Other community objectives</b>	<i>NA</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Building construction code approval</i>
<b>Responsible party</b>	<i>Borough Engineer</i>
<b>Potential funding sources</b>	<i>Mitigation Grant with 25% local match</i>
<b>Time line</b>	<i>2-3 years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New Action - Letter of Intent submitted on 2/26/2013 following Superstorm Sandy</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Shrewsbury Borough</i>
<b>Community action number</b>	2
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All natural hazards</i>
<b>Risk finding</b>	<i>The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Education and outreach</i>
<b>Action type</b>	<i>Public awareness and education programs</i>
<b>Action description</b>	<i>Work with municipal and community stakeholders to setup a committee to develop all hazard education program including web resources and handouts. Specifically develop checklists and steps that individual residents can use to evaluate their own and immediately surrounding properties for potential impact and damage sources.</i>
<b>Existing, future &amp;/or NA</b>	NA
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Create a better awareness of mitigation practices and reduce potential damage, injuries and resulting emergencies. Losses avoided are estimated to be on the order of \$100,000 per occurrence.</i>
<b>Cost estimate</b>	<i>\$2,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>The economic benefit of education-outreach program makes the benefit of this action a worthy investment. This project is likely to be cost effective, with benefits on the order of \$100,000 and cost of only \$2,000.</i>
<b>Technical</b>	<i>Technically feasible and well proven to work</i>
<b>Political</b>	<i>Entire town council supports the project.</i>
<b>Legal</b>	<i>No legal issues.</i>
<b>Environmental</b>	<i>No environmental issues.</i>
<b>Social</b>	<i>None. Provides education to all social groups.</i>
<b>Administrative capability</b>	<i>Administered by OEM and IT staff.</i>
<b>Local champion</b>	<i>Office of Emergency Management and CERT members.</i>
<b>Other community objectives</b>	NA
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	NA
<b>Responsible party</b>	<i>OEM and LEPC directives and plans.</i>
<b>Potential funding sources</b>	<i>OEM budget</i>
<b>Time line</b>	<i>2 years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward from the last version of the plan</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Shrewsbury Borough</i>
<b>Community action number</b>	3
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding of Haddon Ave which is an access road to First Aid Building - (flooding, hurricane and tropical storms, nor'easters)</i>
<b>Risk finding</b>	<i>Address flooding issues and or relocate the First Aid Squad</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Infrastructure project</i>
<b>Action type</b>	<i>Relocation</i>
<b>Action description</b>	<i>The First Aid Squad is located in an area that is prone to flooding. Although the building itself does not flood the access road floods frequently reducing accessibility to the building. The town is considering moving the squad to a more desirable location.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>First Aid Squad provides essential medical service to all residents and there is a need to make sure this service is uninterrupted. Losses avoided are not tangible and a specific cost on pain, suffering and/or loss of life can not be easily assigned.</i>
<b>Cost estimate</b>	<i>10,000 to 50,000 depending on retrofitting needs of new structure</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Uninterrupted emergency medical services will directly save lives. This project is likely to be cost effective, with benefits in hundreds of thousands of dollars and costs of between \$10,000 and \$50,000.</i>
<b>Technical</b>	<i>Technically feasible. Flooding has stranded first responders enroute to the building.</i>
<b>Political</b>	<i>Entire town council supports the project.</i>
<b>Legal</b>	<i>No legal issues.</i>
<b>Environmental</b>	<i>No environmental issues.</i>
<b>Social</b>	<i>Current building is used as a voting location. New voting facility will have to identified.</i>
<b>Administrative capability</b>	<i>First Aid command staff will work with zoning and planning office.</i>
<b>Local champion</b>	<i>Office of Emergency Management and First Aid Squad.</i>
<b>Other community objectives</b>	<i>NA</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>New location may require zoning changes.</i>
<b>Responsible party</b>	<i>First Aid Squad</i>
<b>Potential funding sources</b>	<i>Capital budgeted and First Aid Squad Budget.</i>
<b>Time line</b>	<i>2-4 years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward with changes</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Shrewsbury Borough</i>
Community action number	<i>4</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding of M nroe Ave (Flooding, hurricanes, and nor'easters)</i>
Risk finding	<i>Monroe Ave floods during heavy percipitation due to inefective drainage system and proximity to a stream</i>
<b>Describing the Action</b>	
Action category	<i>Infrastructure project</i>
Action type	<i>Drainage improvement, stream cleaning</i>
Action description	<i>Replacement/upgrade of storm drain infastructure. Stream clearing and desnagging</i>
Existing, future &/or NA	<i>Existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Street is frequently closed due to flooding. Flooding also endangers several homes located on this street. The proposed project will mitigate repeated damage to road and flooding of homes.Losses avoided are estimated to be \$1,000-\$10,000 per occurrence.</i>
Cost estimate	<i>\$150,000 Dependent on capital funding, low priority at this point.</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits on the order of \$1,000 to \$10,000 per occurence and costs of \$150,000</i>
Technical	<i>Technically feasible.</i>
Political	<i>Entire town council supports the project.</i>
Legal	<i>No legal issues.</i>
Environmental	<i>Stream clearing work falls under state and county jurisdiction.</i>
Social	<i>None</i>
Administrative capability	<i>Borough Engineer and private contractor.</i>
Local champion	<i>Local homeowners.</i>
Other community objectives	<i>NA</i>
<b>Implementing the Action</b>	
Priority	<i>Low</i>
Local planning mechanism	<i>Local permitting and state oversight of stream work</i>
Responsible party	<i>Borough Engineer</i>
Potential funding sources	<i>Capital budged and grants.</i>
Time line	<i>Undertermined, dependent on capital budgeting</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Shrewsbury Borough</i>
Community action number	5
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding &amp; Remediation of damage to roadbed as a result of frequent flooding. (flooding, hurricanes and tropical storms, nor'easters)</i>
Risk finding	<i>Roadbed stabilization and roadway reconstruction along with installation of additional drainage improvements on Winding Brook Way and Blades Run.</i>
<b>Describing the Action</b>	
Action category	<i>Infrastructure project</i>
Action type	<i>Roadway stabilization &amp; drainage improvements.</i>
Action description	<i>Stabiliation of failed roadway as a result in frequent inundation of floodwaters; installation of roadbed drainage system; storm sewer improvements.</i>
Existing, future &/or NA	<i>Existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Continuous access to properties protected by stabilizing roadway, ensuring emergency access to properties subject to flooding. Long term stabilization of roadway protects access to properties and ensures unrestricted access by emergency vehicles thereby preventing losses. Losses avoided are estimated to be \$10,000 to \$100,000 per occurence</i>
Cost estimate	<i>\$522,769</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits of \$10,000 to \$100,000 per occurence and costs of \$522,769.</i>
Technical	<i>Technically feasible.</i>
Political	<i>Entire town council supports the project.</i>
Legal	<i>No legal issues.</i>
Environmental	<i>Environmental regulations fully complied with.</i>
Social	<i>Provides efficient access to all properties and ehances quality of life.</i>
Administrative capability	<i>Borough Engineer and private contractor.</i>
Local champion	<i>Local homeowners.</i>
Other community objectives	<i>NA</i>
<b>Implementing the Action</b>	
Priority	<i>Low</i>
Local planning mechanism	<i>Local permitting</i>
Responsible party	<i>Borough Engineer</i>
Potential funding sources	<i>Capital budged and grants.</i>
Time line	<i>Construction commenced in October 2011 and completed December 2011.</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New action</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Shrewsbury Borough</i>
Community action number	6
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Frequent power outages in the municipal building limit emergency functions. (flooding, hurricanes and tropical storms, nor'easters, snow storms)</i>
Risk finding	<i>Frequent power outages limit police department and emergency management functions. Current small emergency generator provides limited backup power to a portion of the building.</i>
<b>Describing the Action</b>	
Action category	<i>Infrastructure project</i>
Action type	<i>Installing an emergency generator.</i>
Action description	<i>Providing emergency backup power to police department, emergency management operations center and 167 person meeting room which will serve as a shelter.</i>
Existing, future &/or NA	<i>Existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Emergency power will provide continuous police department services and emergency management operations center. The building will also provide a shelter with essential services thereby protecting public health and safety. Losses avoided are estimated to be in excess of \$10,000 per occurrence</i>
Cost estimate	<i>\$120,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits of \$10,000 per occurrence and costs of \$120,00.</i>
Technical	<i>Technically feasible.</i>
Political	<i>Entire town council supports the project.</i>
Legal	<i>No legal issues.</i>
Environmental	<i>Environmental regulations fully complied with.</i>
Social	<i>Provides continuous police and emergency management services and an emergency shelter that enhances quality of life.</i>
Administrative capability	<i>Borough Engineer and private contractor.</i>
Local champion	<i>Local homeowners and businesses.</i>
Other community objectives	NA
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Local permitting</i>
Responsible party	<i>Borough Engineer</i>
Potential funding sources	<i>Capital budgeted and grants.</i>
Time line	<i>2014-2015</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Shrewsbury Borough</i>
<b>Community action number</b>	7
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Storm surge, flooding, hurricanes, tropical storms, nor'easters, wave action, winter storms
<b>Risk finding</b>	Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	Protect Structures
<b>Action description</b>	Elevation and/or Acquisition of Floodprone Residential Structures, with particular focus on those in our community that are on FEMA's Repetitive Loss List and Severe Repetitive Loss List. New Jersey is committed to continuing the reduction of RL and SRL properties in the State; in turn, they have assigned a high priority to mitigating SRL and RL properties in the State Hazard Mitigation Plan. We are committed to supporting these projects as interested homeowners come forward and will support such homeowners, despite the loss in tax revenue, because we recognize the importance of making our community more disaster-resistant and reducing the financial burden of repetitive flooding in our community.
<b>Existing, future &amp;/or NA</b>	Existing
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Properties on FEMA's RL list have already incurred flood-related damage on two occasions, in which the cost of the repair, on average, equaled or exceeded 25% of the market value of the structure at the time of each such flood event. Properties on FEMA's SRL list have already incurred flood related damage (i) For which four or more separate claims payments have been made under flood insurance coverage with the amount of each such claim exceeding \$5,000, and with the cumulative amount of such claims payments exceeding \$20,000; or (ii) For which at least two separate claims payments have been made under such coverage, with the cumulative amount of such claims exceeding the market value of the insured structure. While losses avoided by elevating or acquiring properties on FEMA's RL and SRL lists are unquantifiable until specific interested homeowners come forward, they would meet these criterion by definition, at a minimum.
<b>Cost estimate</b>	Project costs are unquantifiable at this time. They would depend on the particular home(s) in question, and the nature of the project the homeowner is interested in (acquisition, or elevation).
<b>Cost effectiveness (i.e., benefit/cost)</b>	Because our RL and SRL properties have incurred so much damage historically, it is highly probably that mitigating these properties would be cost effective. Specific determinations of cost-effectiveness would be done in the future on a case by case basis as interested homeowners come forward and project details are specified.
<b>Technical</b>	Elevation and acquisition are both technically feasible project types
<b>Political</b>	Our political leadership supports this type of project
<b>Legal</b>	While the municipality does not own the structures in question, we fully support the homeowners in moving forward
<b>Environmental</b>	No environmental impacts are anticipated at this time; this would be confirmed as specific homeowners come forward and their property details are reviewed. It is likely that environmental impacts would be positive, as household hazardous wastes are no longer introduced into floodwaters.
<b>Social</b>	No particular social group in our community is likely to be disproportionately impacted by this project; this would be re-evaluated as particular interested homeowners come forward.
<b>Administrative capability</b>	Our municipality has the administrative capabilities to manage an elevation and/or acquisition project
<b>Local champion</b>	affected homeowners, elected officials
<b>Other community objectives</b>	Improve and protect lifestyles of residents; reduction of costly property damage; resiliency; floodplain management; capital improvements
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	Homeowners; Mayor; Council; Administrator; Engineer; local ordinance; Hazard Mitigation Plan
<b>Responsible party</b>	Construction Official
<b>Potential funding sources</b>	FEMA hazard mitigation grant funding streams (i.e., HMGP, FMA, etc)
<b>Time line</b>	This is projected to be an ongoing type of activity, with our municipality supporting interested parties as they come forward.
<b>Reporting on Progress</b>	
<b>Action progress status</b>	New action

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Shrewsbury Township</i>
<b>Community action number</b>	<i>1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All, particularly extreme wind</i>
<b>Risk finding</b>	<i>Critical facilities, including the Township EOC and local shelters, experience telecommunications and electrical system failure during severe storms (due to wind related power failures, such as downed trees on power lines). This renders the systems inoperable and the Township is unable to provide critical services. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and infrastructure projects</i>
<b>Action type</b>	<i>Protect critical facilities</i>
<b>Action description</b>	<i>Planning for funding and improvements to telecom and electrical systems at critical facilities including EOC and local shelters: Installation of emergency generator and ATS to power the Municipal Building to provide emergency services and shelter to the Township residents in time of power outages which can occur during all types of natural hazard events but have been most common during high wind events, hurricanes and tropical storms, and nor'easters.</i>
<b>Existing, future &amp;/or NA</b>	<i>N/A</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>This action will be significant to provide shelter, as well as, Emergency Management functions. Benefits also include reduced risks to health, safety and welfare. Property losses avoided are estimate to be over \$1,000,000. There is no estimate to the lives that can be saved during extreme heat and cold when there is no electric utility within the Township.</i>
<b>Cost estimate</b>	<i>\$300,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is cost effective with estimated benefits of over \$1,000,000 over the lifetime of the generator and the one-time cost of \$300,000</i>
<b>Technical</b>	<i>This mitigation action is technically feasible</i>
<b>Political</b>	<i>There is both political and public support for this mitigation action</i>
<b>Legal</b>	<i>The Township can implement this mitigation action with the proper permits</i>
<b>Environmental</b>	<i>There are no environmental impacts associated with this mitigation action</i>
<b>Social</b>	<i>This mitigation action will have no social impacts</i>
<b>Administrative capability</b>	<i>The Township can implement this mitigation action with its personnel</i>
<b>Local champion</b>	<i>The Mayor and Committee and OEM, will advocate for this mitigation action</i>
<b>Other community objectives</b>	<i>This mitigation action improves the quality of life to Township residents in periods of blackouts.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Bid documents</i>
<b>Responsible party</b>	<i>Thomas J Herits PE PP PLS - Maser Consulting, Township Engineer and Jan Delonardo RMC, Township Clerk</i>
<b>Potential funding sources</b>	<i>Grants, local budget if required</i>
<b>Time line</b>	<i>Summer 2015. The Township will apply for grants.</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>The Township will be implementing a CDBG grant to expand and improve the Municipal Building prior to implementing this mitigation action. Carried forward</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Shrewsbury Township</i>
<b>Community action number</b>	2
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding during severe storms and periods of high rainfall/runoff, hurricanes and tropical storms, and nor'easters</i>
<b>Risk finding</b>	<i>Some flooding occurs in the Township during severe storms and periods of high rainfall/runoff due to drainage system insufficiencies; stormwater management is seen locally as a key aspect of mitigating typical effects of hurricanes, tropical storms, and nor'easters in the Township. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Local Planning and Regulations</i>
<b>Action type</b>	<i>Stormwater Management planning</i>
<b>Action description</b>	<i>Ongoing implementation of the practices identified in the current Stormwater Management Plan</i>
<b>Existing, future &amp;/or NA</b>	<i>N/A</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Losses avoided are estimated to be on the order of about \$250,000 per year</i>
<b>Cost estimate</b>	<i>\$300,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is cost effective with estimated benefits of over \$2,500,000 over the lifetime of the drainage system improvements and the one-time cost of \$300,000</i>
<b>Technical</b>	<i>This mitigation action is technically feasible</i>
<b>Political</b>	<i>There is both political and public support for this mitigation action</i>
<b>Legal</b>	<i>The Township can implement this mitigation action with the proper permits</i>
<b>Environmental</b>	<i>There are no environmental impacts associated with this mitigation action</i>
<b>Social</b>	<i>This mitigation action will have no social impacts</i>
<b>Administrative capability</b>	<i>The Township can implement this mitigation action with its personnel</i>
<b>Local champion</b>	<i>The Mayor and Committee and OEM, will advocate for this mitigation action</i>
<b>Other community objectives</b>	<i>This mitigation action improves the health, safety and quality of life to Township residents in periods of high rainfall/runoff caused by severe storms.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Medium</i>
<b>Local planning mechanism</b>	<i>Existing Stormwater Management Plan dated April 2005</i>
<b>Responsible party</b>	<i>Mayor and Committee</i>
<b>Potential funding sources</b>	<i>Grants, local budget if required</i>
<b>Time line</b>	<i>Ongoing</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Shrewsbury Township</i>
<b>Community action number</b>	3
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Storm surge, flooding, hurricanes, tropical storms, nor'easters, wave action, winter storms
<b>Risk finding</b>	Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	Protect Structures
<b>Action description</b>	Elevation and/or Acquisition of Floodprone Residential Structures, with particular focus on those in our community that are on FEMA's Repetitive Loss List and Severe Repetitive Loss List. New Jersey is committed to continuing the reduction of RL and SRL properties in the State; in turn, they have assigned a high priority to mitigating SRL and RL properties in the State Hazard Mitigation Plan. We are committed to supporting these projects as interested homeowners come forward and will support such homeowners, despite the loss in tax revenue, because we recognize the importance of making our community more disaster-resistant and reducing the financial burden of repetitive flooding in our community.
<b>Existing, future &amp;/or NA</b>	Existing
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Properties on FEMA's RL list have already incurred flood-related damage on two occasions, in which the cost of the repair, on average, equaled or exceeded 25% of the market value of the structure at the time of each such flood event. Properties on FEMA's SRL list have already incurred incurred flood related damage (i) For which four or more separate claims payments have been made under flood insurance coverage with the amount of each such claim exceeding \$5,000, and with the cumulative amount of such claims payments exceeding \$20,000; or (ii) For which at least two separate claims payments have been made under such coverage, with the cumulative amount of such claims exceeding the market value of the insured structure. While losses avoided by elevating or acquiring properties on FEMA's RL and SRL lists are unquantifiable until specific interested homeowners come forward, they would meet these criterion by definition, at a minimum.
<b>Cost estimate</b>	Project costs are unquantifiable at this time. They would depend on the particular home(s) in question, and the nature of the project the homeowner is interested in (acquisition, or elevation).
<b>Cost effectiveness (i.e., benefit/cost)</b>	Because our RL and SRL properties have incurred so much damage historically, it is highly probably that mitigating these properties would be cost effective. Specific determinations of cost-effectiveness would be done in the future on a case by case basis as interested homeowners come forward and project details are specified.
<b>Technical</b>	Elevation and acquisition are both technically feasible project types
<b>Political</b>	Our political leadership supports this type of project
<b>Legal</b>	While the municipality does not own the structures in question, we fully support the homeowners in moving forward
<b>Environmental</b>	No environmental impacts are anticipated at this time; this would be confirmed as specific homeowners come forward and their property details are reviewed. It is likely that environmental impacts would be positive, as household hazardous wastes are no longer introduced into floodwaters.
<b>Social</b>	No particular social group in our community is likely to be disproportionately impacted by this project; this would be re-evaluated as particular interested homeowners come forward.
<b>Administrative capability</b>	Our municipality has the administrative capabilities to manage an elevation and/or acquisition project
<b>Local champion</b>	affected homeowners, elected officials
<b>Other community objectives</b>	Improve and protect lifestyles of residents; reduction of costly prperty damage; resiliency; floodplain management; capital improvements
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	Homeowners; Mayor; Council; Administrator; Engineer; local ordinance; Hazard Mitigation Plan
<b>Responsible party</b>	Engineer
<b>Potential funding sources</b>	FEMA hazard mitigation grant funding streams (i.e., HMGP, FMA, etc)
<b>Time line</b>	This is projected to be an ongoing type of activity, with our municipality supporting interested parties as they come forward.
<b>Reporting on Progress</b>	
<b>Action progress status</b>	New action

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough Of Spring lake</i>
<b>Community action number</b>	<i>2014-01 ( Wreck Pond-Sluice Gate Installation)</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding</i>
<b>Risk finding</b>	<i>Severe flooding of residential properties in the Wreck Pond watershed</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure/Infrastructure Projects</i>
<b>Action type</b>	<i>Flood Proofing</i>
<b>Action description</b>	<i>The installation of sluice gates on the existing Wreck Pond outlet control structure. Prior to a major storm event, the gates would be closed to prevent flooding.</i>
<b>Existing, future &amp;/or NA</b>	<i>Addresses existing structures</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Avoid severe flooding and damage to residential structures.</i>
<b>Cost estimate</b>	<i>The cost of the project is estimated to be \$300,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Average cost of residential homes in this area are in the \$1-3 million range. Previous flooding has caused Millions in damages.</i>
<b>Technical</b>	<i>Technically feasible. Flooding problem in this area will be controlled.</i>
<b>Political</b>	<i>All residents realize the need to prevent flooding in this area. No group is opposed to this action.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>No adverse environmental issues</i>
<b>Social</b>	<i>Does not adversely affect any particular social group.</i>
<b>Administrative capability</b>	<i>Spring Lake Mayor and Council</i>
<b>Local champion</b>	<i>W. Bryan Dempsey. Borough Administrator</i>
<b>Other community objectives</b>	<i>None</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Extremely High</i>
<b>Local planning mechanism</b>	<i>Borough has received all permit approvals</i>
<b>Responsible party</b>	<i>Borough Engineer</i>
<b>Potential funding sources</b>	<i>FEMA, HMGP Grant and the Borough of Spring Lake</i>
<b>Time line</b>	<i>Gates have been ordered and waiting installation.</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried over from the last version of the plan (follow up for action number 4E on previous submission (Table 3a.22). Completion expected in mid 2014.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough Of Spring lake</i>
<b>Community action number</b>	<i>2014-02 (Dredging of Wreck Pnh-Phase III)</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding</i>
<b>Risk finding</b>	<i>Severe flooding of residential properties in the Wreck Pnh watershed</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure/Infrastructure Projects</i>
<b>Action type</b>	<i>Flood Proofing/water quality of Wreck Pond</i>
<b>Action description</b>	<i>The dredging will result of the removal of approximately 20,000 cu. yds of material. Work will be performed by Monmouth County as shared service.</i>
<b>Existing, future &amp;/or NA</b>	<i>Addresses existing structures</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Avoid severe flooding and improve the water quality. It will also improve the hydraulic capacity of the pond and improve the natural flow of water to the ocean.</i>
<b>Cost estimate</b>	<i>The cost of the project is estimated to be \$50,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Average cost of residential homes in this area are in the \$1-3 million range. Previous flooding has caused Millions in damages.</i>
<b>Technical</b>	<i>Technically feasible. Water quality of the pond will be improved and water depth will be restored.</i>
<b>Political</b>	<i>All residents realize the need to prevent flooding in this area. No group is opposed to this action.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>Project just received various permits (March 2014) but because of DEP restrictions work will not take place until late 2014.</i>
<b>Social</b>	<i>Does not adversely affect any particular social group.</i>
<b>Administrative capability</b>	<i>Spring Lake Mayor and Council, and Monmouth County</i>
<b>Local champion</b>	<i>W. Bryan Dempsey. Borough Administrator</i>
<b>Other community objectives</b>	<i>None</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Extremely High</i>
<b>Local planning mechanism</b>	<i>Borough has received all permit approvals</i>
<b>Responsible party</b>	<i>Borough Engineer</i>
<b>Potential funding sources</b>	<i>Boro of Spring Lake, Army Corp of Engineers and Monmouth County</i>
<b>Time line</b>	<i>Late 2014</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried over from last version of the plan (follow up for action number 4F on previous submission (Table 3a.22). Completion expected in late 2014.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough Of Spring lake</i>
<b>Community action number</b>	<i>2014-03 (Reconstruction of Existing Coastal System at Pier Beach)</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding</i>
<b>Risk finding</b>	<i>Severe flooding of residential properties</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure/Infrastructure Projects</i>
<b>Action type</b>	<i>Protection from tidal flooding</i>
<b>Action description</b>	<i>Reconstruction of the 20 foot high mature sand dune for protection from tidal flooding and will provide a buffer against wave attack and overwash.</i>
<b>Existing, future &amp;/or NA</b>	<i>Addresses existing structures</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Avoid severe flooding and improve the water quality. It will also improve the hydraulic capacity of the pond and improve the natural flow of water to the ocean.</i>
<b>Cost estimate</b>	<i>The cost of the project is estimated to be \$100,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Average cost of residential homes in this area are in the \$1-3 million range. Previous flooding has caused millions in damages.</i>
<b>Technical</b>	<i>Technically feasible.</i>
<b>Political</b>	<i>All residents realize the need to prevent flooding in this area. No group is opposed to this action.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>Project just received various permits/approvals from NJDEP to be immediately be completed.</i>
<b>Social</b>	<i>Does not adversely affect any particular social group.</i>
<b>Administrative capability</b>	<i>Spring Lake Mayor and Council</i>
<b>Local champion</b>	<i>W. Bryan Dempsey. Borough Administrator</i>
<b>Other community objectives</b>	<i>None</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Work will be performed with the Borough's existing CAFRA individual permit for beach and dune maintenance.</i>
<b>Responsible party</b>	<i>Borough Engineer</i>
<b>Potential funding sources</b>	<i>FEMA, Army Corp. of Engineers, NJDEP, and Borough of Spring lake</i>
<b>Time line</b>	<i>Mid 2014</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New. The dune has been installed and the dune grass planted. The dune system with dune walkover will be Completed by May 2014.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough Of Spring lake</i>
Community action number	<i>2014-04 (NJ Environmental Infrastructure Trust)</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Water Quality of Wreck Pond</i>
Risk finding	<i>Severe flooding of residential properties</i>
<b>Describing the Action</b>	
Action category	<i>Infrastructure Project</i>
Action type	<i>Water Quality</i>
Action description	<i>Project will use dedicated funding to impliment improvements identified in the Wreck Pond Infrastructure Assessment. The improvements include repair of piping defects.</i>
Existing, future &/or NA	<i>Addresses existing structures</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Work would include eliminating defects and deficiencies in the existing sanitary and storm sewer systems that may negatively impact water quality.</i>
Cost estimate	<i>The cost of the project is estimated to be \$500,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>Average cost of residential homes in this area are in the \$1-3 million range. Previous flooding has caused millions in damages.</i>
Technical	<i>Technically feasible.</i>
Political	<i>All residents realize the need to prevent flooding in this area. No group is opposed to this action.</i>
Legal	<i>No apparent legal issues.</i>
Environmental	<i>Project just received various permits/approvals from NJDEP to be immediately be completed.</i>
Social	<i>Does not adversely affect any particular social group.</i>
Administrative capability	<i>Spring Lake Mayor and Council</i>
Local champion	<i>W. Bryan Dempsey. Borough Administrator</i>
Other community objectives	<i>None</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>None</i>
Responsible party	<i>Borough Engineer</i>
Potential funding sources	<i>Project funded by NJEIT loan</i>
Time line	<i>Early 2015</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New. The NJEIT program requires preliminary design plans completed by March,2014. Final design would be completed by mid-Fall 2014, and the bid by the end of 2014.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough Of Spring lake</i>
<b>Community action number</b>	<i>2014-05 (Bypass Culvert From the Emergency Spillway to ocean)</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding</i>
<b>Risk finding</b>	<i>Severe flooding of residential properties</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Infrastructure Project</i>
<b>Action type</b>	<i>Flood Proofing</i>
<b>Action description</b>	<i>Project will install an additional outflow pipe from Wreck Pond to the Ocean Project will double the current outflow capacity of th Pond during a heavy rainfall event.</i>
<b>Existing, future &amp;/or NA</b>	<i>Addresses existing structures</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>This will control the flooding of residential properties in the Borough of Spring Lake. Also, it will enhance the water quality of the pond and increase fish habitat.</i>
<b>Cost estimate</b>	<i>The cost of the project is estimated to be \$4.3 million.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Average cost of residential homes in this area are in the \$1-3 million range. Previous flooding has caused millions in damages.</i>
<b>Technical</b>	<i>Technically feasible.</i>
<b>Political</b>	<i>All residents realize the need to prevent flooding in this area. No group is opposed to this action.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>Protected endangered spicies habitat would be impacted only during construction, which would be timed to occur when the birds are not present.</i>
<b>Social</b>	<i>Does not adversely affect any particular social group.</i>
<b>Administrative capability</b>	<i>Spring Lake Mayor and Council</i>
<b>Local champion</b>	<i>W. Bryan Dempsey. Borough Administrator</i>
<b>Other community objectives</b>	<i>None</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>None required.</i>
<b>Responsible party</b>	<i>Borough Engineer, DEP, United States Fish and Wildlife</i>
<b>Potential funding sources</b>	<i>Grant of \$2.0 million from the US Fish and Wildlife/ \$1.0 million from Borough SL/ Other Govt agencies for Balance of Project.</i>
<b>Time line</b>	<i>Late 2015, unless the grant is extended by US Fish and Wildlife</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried over from the last version of the plan (follow up for action number 4F on previous submission (Table 3a.22)). In progress .</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough Of Spring Lake</i>
<b>Community action number</b>	<i>2014-06 (Lake Como Outflow Reconstruction Project)</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding</i>
<b>Risk finding</b>	<i>Severe flooding of residential properties in Lake Como, Belmar and Spring Lake.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Infrastructure Project</i>
<b>Action type</b>	<i>Flood Proofing</i>
<b>Action description</b>	<i>Project will consist of construction of new outfall structure(s) from Lake Como to Ocean.</i>
<b>Existing, future &amp;/or NA</b>	<i>Addresses existing structures</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>This will control the flooding of residential properties in Lake Como, Belmar and the Borough of Spring Lake.</i>
<b>Cost estimate</b>	<i>The cost of the project is estimated to be \$2.5 million.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Average cost of residential homes in this area are in the \$1-3 million range. Previous flooding has caused millions in damages.</i>
<b>Technical</b>	<i>Technically feasible.</i>
<b>Political</b>	<i>All residents in both municipalities realize the need to prevent flooding in this area. No group is opposed to this action.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>Project will require permits from the DEP and Army Corp of Engineers.</i>
<b>Social</b>	<i>Does not adversely affect any particular social group.</i>
<b>Administrative capability</b>	<i>Spring Lake Mayor and Council/ Lake Como Mayor and Council</i>
<b>Local champion</b>	<i>W. Bryan Dempsey. Borough Administrator/ Peter Avakian, Engineer</i>
<b>Other community objectives</b>	<i>None</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>None required.</i>
<b>Responsible party</b>	<i>Borough Engineers from Spring Lake, Lake Como and Belmar</i>
<b>Potential funding sources</b>	<i>Monmouth County, NJDEP, FEMA, Spring Lake, Lake Como and Belmar</i>
<b>Time line</b>	<i>ASAP</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried over from the last version of the plan (follow up for action number 4E on previous submission (Table 3a.22)).In progress.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough Of Spring Lake</i>
<b>Community action number</b>	<i>2014-07 (Elevation of Floodprone Residential Structures)</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Storm Surge, flooding, hurricanes, tropical storms and nor'easters</i>
<b>Risk finding</b>	<i>Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure Projects</i>
<b>Action type</b>	<i>Project Structures</i>
<b>Action description</b>	<i>Project will consist of the elevation of floodprone Residential Structures that are below the approved base flood elevations approximately 100 homes.</i>
<b>Existing, future &amp;/or NA</b>	<i>Addresses existing structures</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Losses avoided by this project are estimated to be \$100,000 per property that is elevated.</i>
<b>Cost estimate</b>	<i>The cost of the project is estimated to be \$50,000 to \$100,000 depending on size and current foundation of home.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Average cost of residential homes in this area are in the \$1-3 million range. Previous flooding has caused millions in damages. This project is likely to be cost effective, with benefits estimated to be about \$100,000 per property and costs of only \$50k-\$100k per property.</i>
<b>Technical</b>	<i>Elevation of homes is Technically feasible.</i>
<b>Political</b>	<i>All residents realize the need to prevent flooding in this area. No group is opposed to this action. Our political leadership supports this type project.</i>
<b>Legal</b>	<i>No apparent legal issues.</i>
<b>Environmental</b>	<i>No environmental impacts are anticipated as a result of elevating the homes.</i>
<b>Social</b>	<i>Does not adversely affect any particular social group.</i>
<b>Administrative capability</b>	<i>Spring Lake Mayor and Council and Borough Manager will manage this project.</i>
<b>Local champion</b>	<i>W. Bryan Dempsey. Borough Administrator/ Peter Avakian, Engineer</i>
<b>Other community objectives</b>	<i>None</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>None required.</i>
<b>Responsible party</b>	<i>Borough Engineers from Spring Lake</i>
<b>Potential funding sources</b>	<i>FEMA hazard mitigation grant funding streams (i.e., HMGP)</i>
<b>Time line</b>	<i>ASAP</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New project</i>

<b>Action Worksheet #7</b>	
<b>Your plan name</b>	<b>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</b>
<b>Your community name</b>	<b>Borough of Spring Lake Heights</b>
<b>Community action number</b>	<b>1 (Action 1C - Explore the need for hazard zoning and high risk hazard land use ordinances, raising utilities, exceeding height requirements)</b>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding, Storm Surge, Nor'easters, Hurricanes &amp; Tropical Storms</i>
<b>Risk finding</b>	<i>– Existing development in floodprone areas and areas susceptible to storm surge has incurred first floor flooding, and damages to utility systems. While not on the immediate coast, much of Spring Lake Heights is in mapped surge hazard areas. However, during Hurricane Sandy, most flooding was observed within the first block of the Wreck Pond tributaries. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events. Spring Lake Heights is essentially built out; the majority of development is residential in nature and occurs as part of home additions and improvements.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Planning Mechanism - revise zoning ordinance to address development in hazardous areas and also implement changes in design requirements to develop structures that are flood resilient</i>
<b>Action type</b>	<i>Review and revise development ordinance to more adequately address the flood hazard areas of the Borough</i>
<b>Action description</b>	<i>Revise zoning ordinance to address development in hazardous areas and also implement changes in design requirements to develop structures that are flood resilient. Introduce and adopt development ordinances which require compliance with new base flood elevation, mandatory flood proofing and other similar measures.</i>
<b>Existing, future &amp;/or NA</b>	<i>The action is designed to protect future development</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>These planning changes will significantly reduce any potential damage to development in the areas prone to flooding in the Borough. With approximately 100 properties located in the 100 year flood areas, the potential property damage which may be realized by future flooding in the flood prone areas significantly outweighs this planning effort's costs of approximately \$50k.</i>
<b>Cost estimate</b>	<i>Approximately \$50k</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits estimated to be well in excess of project costs.</i>
<b>Technical</b>	<i>planning Mechanisms are technically feasible</i>
<b>Political</b>	<i>These proposed planning changes have the support of the Mayor and Council.</i>
<b>Legal</b>	<i>The Borough of Spring Lake Heights has the Authority to make these changes</i>
<b>Environmental</b>	<i>There are no Environmental impacts associated with the proposed Planning changes.</i>
<b>Social</b>	<i>There are no social impacts or does this proposed improvement require the relocation of any resident of the Borough .</i>
<b>Administrative capability</b>	<i>the Borough attorney and planner are required to complete this project.</i>
<b>Local champion</b>	<i>The local Police Fire and Rescue Squad are in support of this implementation as well as the Borough's Environmental Commission.</i>
<b>Other community objectives</b>	<i>this action specifically furthers the Borough's Community Objectives with regard to development</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>medium</i>
<b>Local planning mechanism</b>	<i>The Planning Board, the Zoning Board of Adjustment, the Building Department and the NJ building Code</i>
<b>Responsible party</b>	<i>The Borough Mayor and Council</i>
<b>Potential funding sources</b>	<i>Planning Grants</i>
<b>Time line</b>	<i>Pending grant funding</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>This implementation is being carried forward from the last version of the plan</i>

<b>Action Worksheet #7</b>	
<b>Your plan name</b>	<b>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</b>
<b>Your community name</b>	<b>Borough of Spring Lake Heights</b>
<b>Community action number</b>	<b>2 (Action 2B - Create agnigation outreach program to prepare residents for disaster)</b>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	All natural hazards.
<b>Risk finding</b>	The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level of disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities.
<b>Describing the Action</b>	
<b>Action category</b>	Education and Awareness Programs
<b>Action type</b>	Increase education and risk awareness, and promote private mitigation efforts
<b>Action description</b>	public outreach includes discussion and handouts at Municipal Council meetings or other publically supported events/meetings
<b>Existing, future &amp;/or NA</b>	N/A - The action is designed to provide guidance to residents in the event of future natural disasters
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Public outreach will have a significant effect on protecting the safety and welfare of residents. These efforts will also reduce potential damage to development in the areas prone to flooding in the Borough. Though losses avoided are unquantifiable for an action of this nature, with approximately 100 properties located in the 100 year flood areas, the potential property damage which may be avoided during future flooding in the flood prone areas is likely to be significantly higher than the \$75k costs of this outreach effort.
<b>Cost estimate</b>	Approximately \$75k
<b>Cost effectiveness (i.e., benefit/cost)</b>	This project is likely to be cost effective, with the potential propoerty damage which may be avoided druing future flooding in the flood prone areas likely to be significantly higher than the \$75k costs of this outreach effort.
<b>Technical</b>	Outreach programs are technically feasible
<b>Political</b>	The implementation of flood mitigation practices has the support of the Mayor and Council.
<b>Legal</b>	The Borough of Spring Lake Heights has the authority to conduct public outreach
<b>Environmental</b>	There is not an Environmental impacts associated with outreach measures
<b>Social</b>	There are no social impacts associated with outreach measures
<b>Administrative capability</b>	the Borough has the administrative capability to conduct outreach programs /measures
<b>Local champion</b>	The local Police Fire and Rescue Squad are in support of this implementation of these measures.
<b>Other community objectives</b>	this action specifically furthers the Borough's Community Objectives with regard the safety and welfare of its residents
<b>Implementing the Action</b>	
<b>Priority</b>	high
<b>Local planning mechanism</b>	Literature prepared and discussions presented by Borough Officials will be used to implement these actions
<b>Responsible party</b>	The Borough Mayor and Council
<b>Potential funding sources</b>	Future Municipal Grants
<b>Time line</b>	Pending grant funding
<b>Action progress status</b>	This implementation is being carried forward from the last version of the plan

**Action Worksheet #7**

<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Spring Lake Heights</i>
<b>Community action number</b>	<i>3 (Action 4D- Continue to implemi nt ade best mitigation practices for floodplain areas)</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding , storm surge, Nor'easters, Hurricanes &amp; Tropical Storms</i>
<b>Risk finding</b>	<i>Existing development in floodprone areas and areas susceptible to storm surge has incurred first floor flooding, and damages to utility systems.Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>-Local Planning and Regulations</i>
<b>Action type</b>	<i>Improved floodplain management practices</i>
<b>Action description</b>	<i>Continue to implement mitigation practices such as development regulations and enforcement of mitigation practices in flood prone areas. Enforce zoning ordinances which restrict development in hazardous areas and also implement changes in design requirements to develop structures that are flood resilient</i>
<b>Existing, future &amp;/or NA</b>	<i>The action is designed to protect existing and future development</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>These planning changes will significantly reduce any potential damage to development in the areas prone to flooding in the Borough. Losses avoided are difficult to quantify but, with approximately 100 properties located in the 100 year flood areas, the potential losses avoided through implementing best floodplain management practices is expected to be at least equal to (and most likely be well over) the \$75k cost of this this activity.</i>
<b>Cost estimate</b>	<i>Approximately \$75k</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This action is likely to be cost effective, with benefits over time expected to be well in excess of the \$75k project cost</i>
<b>Technical</b>	<i>planning and enforcement Mechanisms are technically feasible</i>
<b>Political</b>	<i>The implementation of flood mitigation practices has the support of the Mayor and Council.</i>
<b>Legal</b>	<i>The Borough of Spring Lake Heights has the authority to implement these practices</i>
<b>Environmental</b>	<i>There is not an Environmental impacts associated with the implementation of the flood mitigation practices and all practices will comply with NJDEP regulations</i>
<b>Social</b>	<i>There are no social impacts or does this proposed implementation require the relocation of any resident of the Borough .</i>
<b>Administrative capability</b>	<i>the Borough Zoning Officer and Engineer will be required to implement these practices</i>
<b>Local champion</b>	<i>The local Police Fire and Rescue Squad are in support of this implementation as well as the Borough's Environmental Commission.</i>
<b>Other community objectives</b>	<i>this action specifically furthers the Borough's Community Objectives with regard to development</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>high</i>
<b>Local planning mechanism</b>	<i>The Zoning and Code Officer, the Planning Board, the Zoning Board of Adjustment, the Building Department and the NJ building Code</i>
<b>Responsible party</b>	<i>The Borough Mayor and Council</i>
<b>Potential funding sources</b>	<i>Future Municipal Grants</i>
<b>Time line</b>	<i>Pending grant funding</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>This implementation has been added since the last version of the plan</i>

BOROUGH OF SPRING LAKE HEIGHTS  
PRIORITY 1

Action Worksheet	
<b>Your plan name</b>	<b>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</b>
<b>Your community name</b>	<b>Borough of Spring Lake Heights</b>
<b>Community action number</b>	<b>4</b> (LOI-1. Elevate the Shore Road And Black Street Pump Stations - including generators to provide power in the event of an emergency)
Assessing the Risk	
<b>Hazard(s) addressed</b>	Flooding due to 'Nor'easters, Hurricanes & Tropical Storms can compromise equipment as well as result in electrical power loss to the station
<b>Risk finding</b>	Flooding due to 'Nor'easters, Hurricanes & Tropical Storms can compromise equipment as well as result in electrical power loss to the station
Describing the Action	
<b>Action category</b>	Structural Project - Elevation of Pump Stations
<b>Action type</b>	Elevation of pump station building including controls, generator and the elevating the sewer manhole/wet well .
<b>Action description</b>	The Black Creek Pump Station is located at the south end of Sixth Avenue along the northern bank of the North Branch of Wreck Pond. The elevation of this pump station does not meet the recommended freeboard. The Shore Road Pump Station is located along the north shore of Wreck Pond. The elevation of this pump station is below the 100 year flood elevation.
<b>Existing, future &amp;/or NA</b>	The elevation of these pump stations ensures that the future hazards listed above will not directly impact existing and proposed development
Evaluating the Action	
<b>Losses avoided (i.e., benefits)</b>	The elevation of the pump stations above the flood elevations for these areas will ensure that there is no interruption of sewer service to the homes connected to this sanitary sewer collection system. (which accounts for well over 50% of the Borough's population)The elevations of these stations also will significantly reduce and virtually eliminate any potential damage to the sanitary sewer infrastructure of the Borough. The potential property damage, Loss of business and ability of other vital buildings such as the school and fire house to function which may be realized by a failure of these pumps stations considerably outweighs the cost to elevate these stations. There are well over 1000 homes, numerous businesses, the Borough's Fire House and the Borough's Elementary School are connected to this system. The environmental impacts and cleanup cost associated with a failure to even one of these pump stations significantly outweighs the cost of these improvements. A failure of these pump stations would also result in beach closures of adjacent communities as any release of sewage will flow in to Wreck Pond and directly impact the Jersey Shore. Losses avoided by this project could be on the order of roughly \$3,000,000.
<b>Cost estimate</b>	Approximately \$650k
<b>Cost effectiveness (i.e., benefit/cost)</b>	This project is likely to be cost effective, with benefits estimated to be well in excess of project costs (benefits of in excess of \$3,000,000 versus costs of \$650k)
<b>Technical</b>	Elevation of the pump station is the most technically feasible option available.
<b>Political</b>	The proposed improvements have the support of the Mayor and Council.
<b>Legal</b>	The Borough of Spring Lake Heights has the Authority to make these improvements.
<b>Environmental</b>	There are all Environmental impacts associated with the proposed improvements. All NJDEP permits will be obtained prior to construction.
<b>Social</b>	There are no social impacts or does this proposed improvement require the relocation of any resident of the Borough .
<b>Administrative capability</b>	No outside help is required to complete this project.
<b>Local champion</b>	The South Monmouth Regional Sewage Authority is in support of this implementation as well as the Borough's Environmental Commission.
<b>Other community objectives</b>	
Implementing the Action	
<b>Priority</b>	High
<b>Local planning mechanism</b>	The Building Department and the NJ building Code
<b>Responsible party</b>	The Borough Engineer
<b>Potential funding sources</b>	HMGP Grant
<b>Time line</b>	Fall of 2016
Reporting on Progress	
<b>Action progress status</b>	This implementation is a new action

Borough of Spring lake Heights  
Priority 2

<b>Action Worksheet #7</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Spring Lake Heights</i>
<b>Community action number</b>	<i>5 (LOI #2 - Property Acquisition)</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding, Nor'easters, Hurricanes &amp; Tropical Storms, storm surge</i>
<b>Risk finding</b>	<i>Existing development in floodprone areas and areas susceptible to storm surge has incurred first floor flooding, and damages to utility systems. – Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>- Structure and Infrastructure Projects</i>
<b>Action type</b>	<i>- Remove existing structures from flood hazard areas</i>
<b>Action description</b>	<i>Acquisition of 11 floodprone properties in the Borough previously located indicated as the Coastal A Zone on the ABFE Flood Hazard Maps; 600 Shore Road, 714 Shore Road, 716, Shore Road, 718 Shore Road, 805 Shore Road, 808 Shore Road, 809 Shore Road, 811 Shore Road, 812 Shore Road and 813 Shore Road</i>
<b>Existing, future &amp;/or NA</b>	<i>- Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Acquisition of properties in the areas prone to flooding in the Borough would eliminate risk to these residential properties. Benefits are likely to be on the order of \$6,000,000.</i>
<b>Cost estimate</b>	<i>\$3,933,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits on the order of \$6,000,000 and costs of approximately \$3,933,000.</i>
<b>Technical</b>	<i>Acquisition is technically feasible</i>
<b>Political</b>	<i>Acquisition has the support of the Mayor and Council.</i>
<b>Legal</b>	<i>The properties listed have expressed interest in being acquired</i>
<b>Environmental</b>	<i>Environmental impacts associated with acquisition can only be positive has it removes development from these regulated areas.</i>
<b>Social</b>	<i>There are no social impacts associated with these acquisitions</i>
<b>Administrative capability</b>	<i>the Borough has the administrative capability to acquire property</i>
<b>Local champion</b>	<i>The local residents as well as the Environmental Committee in support of this implementation of these measures.</i>
<b>Other community objectives</b>	<i>this action specifically furthers the Borough's Community Objectives with regard to the safety and welfare of its residents</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>high</i>
<b>Local planning mechanism</b>	<i>Planning</i>
<b>Responsible party</b>	<i>The Borough Mayor and Council</i>
<b>Potential funding sources</b>	<i>Future Municipal Grants</i>
<b>Time line</b>	<i>Pending grant funding</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>This is a new action added sincethe last version of the plan</i>

Borough of Spring Lake Heights  
Priority 3

<b>Action Worksheet #7</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Spring Lake Heights</i>
<b>Community action number</b>	<i>6 (LOI #3 - Property Elevation)</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding, surge, Nor'easters, Hurricanes &amp; Tropical Storms</i>
<b>Risk finding</b>	<i>Existing development in floodprone areas and areas susceptible to storm surge has incurred first floor flooding, and damages to utility systems. – Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural Project</i>
<b>Action type</b>	<i>Elevation of Existing structures above the base flood elevation</i>
<b>Action description</b>	<i>Elevation of 12 properties in the Borough previously located indicated as the Coastal A Zone on the ABFE Flood Hazard Maps; 3 Sixth Avenue, 600 Shore Road, 606 Shore Road, 608 Shore Road, 714 Shore Road, 716, Shore Road, 718 Shore Road, 805 Shore Road, 808 Shore Road, 809 Shore Road, 811 Shore Road, 812 Shore Road, 813 Shore Road and 817 Shore Road</i>
<b>Existing, future &amp;/or NA</b>	<i>- Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Elevation of properties in the areas prone to flooding in the Borough would eliminate risk to these residential structures. All of the properties listed above have a history of repetitive loss and/or flood claims. Losses avoided by elevating the buildings is estimated to be on the order of \$3,000,000.</i>
<b>Cost estimate</b>	<i>\$600,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits on the order of \$3,000,000 and costs of only \$600,000.</i>
<b>Technical</b>	<i>Elevation is technically feasible</i>
<b>Political</b>	<i>Elevation has the support of the Mayor and Council.</i>
<b>Legal</b>	<i>The properties listed have expressed interest in being elevated</i>
<b>Environmental</b>	<i>Elevation of properties does not have Environmental impacts .</i>
<b>Social</b>	<i>There are no social impacts associated with elevating these properties</i>
<b>Administrative capability</b>	<i>the Borough has the administrative capability to acquire property</i>
<b>Local champion</b>	<i>The local residents as well as the Environmental Committee in support of this implementation of these measures.</i>
<b>Other community objectives</b>	<i>this action specifically furthers the Borough's Community Objectives with regard to the safety and welfare of its residents</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>high</i>
<b>Local planning mechanism</b>	<i>Planning</i>
<b>Responsible party</b>	<i>The Borough Mayor and Council</i>
<b>Potential funding sources</b>	<i>Future Municipal Grants</i>
<b>Time line</b>	<i>Pending grant funding</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>This is a new action added sincethe last version of the plan</i>

BOROUGH OF SPRING LAKE HEIGHTS  
PRIORITY #7

<b>Action Worksheet #7</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Spring Lake Heights</i>
<b>Community action number</b>	<i>7 (LOI #4 - Utility Improvements)</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding, Storm Surge, Nor'easters, Hurricanes &amp; Tropical Storms</i>
<b>Risk finding</b>	<i>Existing development in floodprone areas and areas susceptible to storm surge has incurred first floor flooding, and damages to utility systems.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure Projects</i>
<b>Action type</b>	<i>Elevation or retrofit of existing utilities above the base flood elevation</i>
<b>Action description</b>	<i>Raise existing utilities above expected flood levels to reduce flood damage. The utility improvements include the elevating of outdoor HVAC equipment, relocation of overhead electrical services to underground conduit and weather proofing of these services as required</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>There are approximately a dozen (12) properties that have a history of repetitive loss and/or flood claims. Elevation and flood proofing of the utilities would eliminate risk to these residential structures and historic claims. Losses avoided are difficult to quantify, but are estimated to be in excess of \$100,000.00</i>
<b>Cost estimate</b>	<i>\$36,000 is cost for approximately a dozen (12) structures receiving treatment</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>the properties referenced above have a history of repetitive loss and/or flood claims This project is likely to be cost effective, with benefits expected to be in excess of \$100,000 and costs on the order of \$36,000</i>
<b>Technical</b>	<i>this is technically feasible</i>
<b>Political</b>	<i>these improvements have the support of the Mayor and Council.</i>
<b>Legal</b>	<i>there are no legal issues</i>
<b>Environmental</b>	<i>no Environmental impacts .</i>
<b>Social</b>	<i>There are no social impacts associated with these improvements</i>
<b>Administrative capability</b>	<i>the Borough has the administrative capability to implement these improvements</i>
<b>Local champion</b>	<i>The local residents are in support of this implementation of these measures.</i>
<b>Other community objectives</b>	<i>this action specifically furthers the Borough's Community Objectives with regard the safety and welfare of its residents</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>medium</i>
<b>Local planning mechanism</b>	<i>planning</i>
<b>Responsible party</b>	<i>The Borough Mayor and Council</i>
<b>Potential funding sources</b>	<i>Future Municipal Grants</i>
<b>Time line</b>	<i>Pending grant funding</i>
<b>Action progress status</b>	<i>This is a new action added since the last version of the plan</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Tinton Falls</i>
Community action number	<i>1</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, landslides, hurricane and tropical storms, nor'easters</i>
Risk finding	<i>Tinton Falls has a fairly steady flow of new development and its population is increasing, so promoting disaster resistant development will be key to achieving sustainability.</i>
<b>Describing the Action</b>	
Action category	<i>Planning Mechanism</i>
Action type	<i>Develop Ordinance</i>
Action description	<i>Develop a stormwater management plan that includes subdivision regulations to control runoff; both for flood reduction and to minimize saturated soils on steep slopes that can cause landslides</i>
Existing, future &/or NA	<i>Existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Promoting disaster resistant development is important to achieve sustainability and protect the health and safety of the borough residents. Losses avoided are estimated to be hundreds of thousands of dollars per year.</i>
Cost estimate	<i>\$10,000/ year</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits on the order of hundreds of thousands of dollars per year and costs of roughly \$10,000 per year.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by the mayor and council</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no negative environmental impacts cause by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>There are no negative social impacts from this project on the community, it is beneficial to the borough and its residents to be conscious of these issues</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it.</i>
Local champion	<i>Council and the mayor</i>
Other community objectives	<i>Economic development and environmental quality</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing documents</i>
Responsible party	<i>Mayor and Council</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
Time line	<i>Ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward (Old #1E)</i>

## Action Worksheet

<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Tinton Falls</i>
<b>Community action number</b>	<i>2</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Extreme ten peratures, extreme winh, durricane &amp; tropical storm, lightning, nor'easter, tornado, winter storm, drought, flood, storm surge, earthquake, landslide, wildfire</i>
<b>Risk finding</b>	<i>Residents are unprepared for severe storms and often face hazardous conditions during and after these events. Health and safety effects due to damages for the storm and lack of essential utilities. Tinton Falls' population is projected to grow fairly significantly through 2040. By the year 2040, it is projected to have a population increase of 35.4% over 2010 values.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Planning Mechanism</i>
<b>Action type</b>	<i>Develop Program to Educate Residents</i>
<b>Action description</b>	<i>Create mitigation outreach program to prepare residents for disasters. Support and fund Community Response Team programs that also include mitigation component.</i>
<b>Existing, future &amp;/or NA</b>	<i>Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Educating the public on how to prepare for a storm and setting up support after the storm has passed can help mitigate some of the damages incurred on the borough by severe weather and protect the health and safety of the residents. Recovery will be faster and more effective and help shelter residents who can not return to their homes. Prevent potential injury and loss of life due to severe weather conditions. Minimize damage to borough facilities and resident homes by properly preparing. We estimate that losses avoided by this project could be on the order of hundreds of thousands of dollars per year.</i>
<b>Cost estimate</b>	<i>\$10,000/ year</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Educating the public on how to prepare for a storm and setting up support after the storm has passed can help mitigate some of the damages incurred on the borough by severe weather and protect the health and safety of the residents. Recovery will be faster and more effective and help shelter residents who can not return to their homes. This project is likely to be cost effective, with benefits on the order of hundreds of thousands of dollars per year and costs of only \$10,000 per year.</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by the mayor and council</i>
<b>Legal</b>	<i>The community does have the legal authority to implement this project</i>
<b>Environmental</b>	<i>There are no negative environmental impacts cause by this project and it will comply with all federal, state, and local regulations</i>
<b>Social</b>	<i>There are no negative social impacts from this project on the community, it is beneficial to the borough and its residents to be conscios of these issues</i>
<b>Administrative capability</b>	<i>The community does have the personnel and administrative capability implement this action as well as maintain it.</i>
<b>Local champion</b>	<i>Council and the mayor</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Moderate</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing documents</i>
<b>Responsible party</b>	<i>Council and the mayor</i>
<b>Potential funding sources</b>	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
<b>Time line</b>	<i>Ongoing</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward (old #2B and 2E)</i>

## Action Worksheet

Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Tinton Falls</i>
Community action number	3
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding by hurricanes, severe storm, hurricanes and tropical storms, nor'easters</i>
Risk finding	<i>Areas of heavy sedimentation are noted along some watercourses (Whale Pond Brook; Jumping Brook. Floodprone roadways/intersections under State jurisdiction, including: County Highway 13A, County Highway 16, and Hope Road. Flash flooding conditions in area streams during/after storms. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.</i>
<b>Describing the Action</b>	
Action category	<i>Planning Mechanism</i>
Action type	<i>Develop work plan</i>
Action description	<i>Conduct a routine maintenance program and seek financial assistance to clean out stream segments with heavy sediment deposits. Develop specific mitigation solutions for floodprone roadways and intersections under the leadership of NJDOT. Implement identified stormwater recharge, rate or volume projects identified in Regional Stormwater Plans to decrease flash in streams during/after storms.</i>
Existing, future &/or NA	<i>Existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Prevent potential injury and loss of life and property due to storm related flooding. Protecting the health and safety of borough residents is of the utmost priority. 'The proposed plan will help mitigate some of the damages incurred by the borough and residents during flooding. Maintaining and cleaning out stream segments will help ensure proper drainage and minimize flooding risks. We estimate that losses avoided could be roughly hundreds of thousands of dollars per year.</i>
Cost estimate	<i>\$50,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits of hundreds of thousands of dollars per year and costs of \$50,000.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by the mayor and council</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no negative environmental impacts cause by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>There are no negative social impacts from this project on the community, it is beneficial to the borough and its residents to be conscious of these issues</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it.</i>
Local champion	<i>Council and the mayor</i>
Other community objectives	<i>Capital improvements</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing documents</i>
Responsible party	<i>Public works, County Mosquito Commission, County Engineering, NJDOT</i>
Potential funding sources	<i>There are no potential environmental impacts caused by this project.</i>
Time line	<i>Ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward (old#4F, 4G, and 4H)</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Tinton Falls</i>
Community action number	4
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Landslides</i>
Risk finding	<i>Areas of the borough are susceptible to slope failure and potential landslides which can lead to severe property damage and loss of life. (including but not limited to: Flows along the Pine Brook repeatedly undercutting portions of Water Street, causing slumping of the street into Pine Brook. Similarly, along Jumping Brook.)</i>
<b>Describing the Action</b>	
Action category	<i>Planning Mechanism</i>
Action type	<i>Develop Ordinance</i>
Action description	<i>Locally identify and map specific areas of potential slope failure and limit future development in these areas; adopt a steep slope ordinance to regulate development in these higher risk areas.</i>
Existing, future &/or NA	<i>Existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Developing an ordinance to regulate development in high risk areas will help prevent future landslides and protect the health and safety of the borough residents as well as prevent damage to borough facilities and resident properties. Losses avoided are estimated to be on the order of millions of dollars per year.</i>
Cost estimate	<i>\$10,000/ year</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits on the order of millions of dollars per year and costs of only \$10,000 per year.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by the mayor and council</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no potential environmental impacts caused by this project.</i>
Social	<i>There are no negative social impacts from this project on the community, it is beneficial to the borough and its residents to be conscious of these issues</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it.</i>
Local champion	<i>Council and the mayor</i>
Other community objectives	<i>Economic development and environmental quality</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Mayor and council</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
Time line	<i>Ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward (old #9B and 9D)</i>

## Action Worksheet

Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Tinton Falls</i>
Community action number	5
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Wildfires</i>
Risk finding	<i>-The NJFFS has mapped several areas of very high to extreme wildfire risk; some of these are close to key access roads and developed areas. Eight critical facilities are in mapped wildfire risk areas (4 child care facilities and 3 senior care facilities in low or moderate risk areas and the Tinton Falls Senior Residence in an area of mapped high/extreme risk).</i>
<b>Describing the Action</b>	
Action category	<i>Planning Mechanism</i>
Action type	<i>Develop plan for mapping areas of wildfire risk and setting up emergency alerts and fire rescue.</i>
Action description	<i>Develop mapping of wild and urban interface areas. Review local EOPs for possible wildfire components regarding fire rescue, alert warning and communications. Initiate public outreach program for homeowners to reduce the possibility of damage and losses due to wildfires. Mitigation for streets.</i>
Existing, future &/or NA	<i>Existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Prevent potential injury and loss of life due to wildfire. Minimize damages through educating homeowners in areas with risk of wildfires. Minimize total losses. Having an emergency plan and routes for evacuation and fire personnel will minimize losses and damage by moving residents away from dangerous areas and control the fire as quickly as possible. Losses avoided are estimated to be on the order of millions of dollars per year.</i>
Cost estimate	<i>\$10,000/year</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits on the order of millions of dollars per year and costs of only \$10,000 per year.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by the mayor and council</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no negative environmental impacts cause by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>There are no negative social impacts from this project on the community, it is beneficial to the borough and its residents to be conscious of these issues</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it.</i>
Local champion	<i>Council and the mayor</i>
Other community objectives	<i>Capital improvements</i>
<b>Implementing the Action</b>	
Priority	<i>Moderate</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Council and the mayor, police and fire</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
Time line	<i>Ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward - old#10A, 10C, 10E, and 10I</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Tinton Falls</i>
Community action number	6
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>All</i>
Risk finding	<i>Various weather events leave the borough vulnerable to potential threats, having adequate warning of incoming events will allow for proper planning in potential hazardous weather situations.</i>
<b>Describing the Action</b>	
Action category	<i>Planning Mechanism</i>
Action type	<i>Purchase or promote NOAA weather radios</i>
Action description	<i>Promote use of or purchase NOAA weather radios for critical borough facilities</i>
Existing, future &/or NA	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Prevent potential injury and loss of life and property damage to hazardous weather related conditions. Protecting the health and safety of borough residents is of the utmost priority. Having adequate warning of potentially hazardous weather events can save lives and prevent damages to borough facilities by allowing for critical planning and implementation time for emergency repairs prior to such event. Losses avoided are estimated to be on the order of millions of dollars per year.</i>
Cost estimate	<i>20 @ \$80.00 each = \$1,600</i>
Cost effectiveness (i.e., benefit/cost)	<i>his project is likely to be cost effective, with benefits on the order of millions of dollars per year and costs of only \$1,600.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by council and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no potential environmental impacts caused by this project.</i>
Social	<i>There are no negative social impacts from this project on the community</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action.</i>
Local champion	<i>Council and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>Low</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Mayor and Council</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
Time line	<i>Ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward (old#11a)</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Tinton Falls</i>
Community action number	7
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Winter Storms and nor'easters</i>
Risk finding	<i>Power outages, icy and snow-covered roads, and downed trees during storms create dangerous road conditions. Health and safety effects due to cold weather conditions.</i>
<b>Describing the Action</b>	
Action category	<i>Planning Mechanism</i>
Action type	<i>Develop Program to Educate Residents</i>
Action description	<i>Educate residents about driving in winter storms and handling winter-related health effects</i>
Existing, future &/or NA	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Prevent potential injury and loss of life and property due to winter storm related conditions. Protecting the health and safety of borough residents is of the utmost priority. Educating the public on these winter storm related hazards can help to mitigate some of the damages incurred on the borough by winter storm related incidents and protect the health and safety of borough residents. Losses avoided are estimated to be hundreds of thousands of dollars per year.</i>
Cost estimate	<i>\$10,000/ year</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits of hundreds of thousands of dollars per year and costs of only \$10,000 per year.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by council and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no potential environmental impacts caused by this project.</i>
Social	<i>There are no negative social impacts from this project on the community, it is beneficial to the borough and its residents to be conscious of these issues</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it.</i>
Local champion	<i>Council and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>Low</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Mayor and Council</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
Time line	<i>Ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward (old#11b)</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Tinton Falls</i>
Community action number	<i>8</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Winter storms</i>
Risk finding	<i>Downed trees and powerlines are historically an issue during extreme wind events including severe storms such as hurricanes and tropical storm, nor'easters, and winter storms.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>Maintenance</i>
Action description	<i>Plant ice and windstorm resistant trees and use landscaping practices to reduce related hazards.</i>
Existing, future &/or NA	<i>Existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Prevent potential injury and loss of life as well as power outages and property damage due to downed trees and limbs. 'Large trees and limbs that fall during winter storms often cause severe damage to borough facilities and resident property as well as power outages. Reducing the amount of downed trees and limbs can save lives and countless dollars in damage. Losses avoided are estimated to be on the order of hundreds of thousands of dollars per year.</i>
Cost estimate	<i>\$50,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>Large trees and limbs that fall during winter storms often cause severe damage to borough facilities and resident property as well as power outages. Reducing the amount of downed trees and limbs can save lives and countless dollars in damage. This project is likely to be cost effective, with benefits on the order of hundreds of thousands of dollars per year and costs of only \$50,000.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by the mayor and council</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no negative environmental impacts cause by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>There are no negative social effects going forward with this project</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it.</i>
Local champion	<i>Council and the mayor</i>
Other community objectives	<i>Capital improvements</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Public works</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
Time line	<i>Ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward (old#11c)</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Tinton Falls</i>
Community action number	2
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>All</i>
Risk finding	<i>Power outages during storms create dangerous conditions at key intersections (Hope Rd &amp; Sycamore Ave, Sycamore Ave &amp; Shrewsbury Ave, Asbury Ave &amp; Essex Rd, Asbury Ave &amp; Shafto Rd). Sanitary sewer pump stations lose power during severe storms.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>Purchase emergency generators to power key facilities during power outages</i>
Action description	<i>Consider the purchase and installation of permanent emergency natural gas fired generators capable of powering sanitary sewer pump stations and emergency generators capable of powering traffic signals at key intersections.</i>
Existing, future &/or NA	<i>Existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The proposed generators will help ensure safe travel on some of the towns key intersections. Sanitary sewer service will also be able to function during times of power outage. The proposed improvements are important to ensure the functioning of essential utilities and safe travels on some of the boroughs key roads as well as protect the health and safety of the borough residents. Losses avoided are estimated to be on the order of millions of dollars per year.</i>
Cost estimate	<i>(4 x \$20,000) + (10 x \$80,000) = \$880,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits on the order of millions of dollars per year and costs of only \$880,000.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by the mayor and council</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no negative environmental impacts cause by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>There are no negative social impacts from this project on the community, it is beneficial to the borough and its residents to be conscious of these issues</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it.</i>
Local champion	<i>Council and the mayor</i>
Other community objectives	<i>Capital improvements</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Public Works, County Engineering</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
Time line	<i>Ongoing</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Tinton Falls</i>
<b>Community action number</b>	<i>10</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Storm surge, flooding, hurricanes, tropical storms, nor'easters, wave action, winter storms
<b>Risk finding</b>	Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	Protect Structures
<b>Action description</b>	Elevation and/or Acquisition of Floodprone Residential Structures, with particular focus on those in our community that are on FEMA's Repetitive Loss List and Severe Repetitive Loss List. New Jersey is committed to continuing the reduction of RL and SRL properties in the State; in turn, they have assigned a high priority to mitigating SRL and RL properties in the State Hazard Mitigation Plan. We are committed to supporting these projects as interested homeowners come forward and will support such homeowners, despite the loss in tax revenue, because we recognize the importance of making our community more disaster-resistant and reducing the financial burden of repetitive flooding in our community.
<b>Existing, future &amp;/or NA</b>	Existing
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Properties on FEMA's RL list have already incurred flood-related damage on two occasions, in which the cost of the repair, on average, equaled or exceeded 25% of the market value of the structure at the time of each such flood event. Properties on FEMA's SRL list have already incurred flood related damage (i) For which four or more separate claims payments have been made under flood insurance coverage with the amount of each such claim exceeding \$5,000, and with the cumulative amount of such claims payments exceeding \$20,000; or (ii) For which at least two separate claims payments have been made under such coverage, with the cumulative amount of such claims exceeding the market value of the insured structure. While losses avoided by elevating or acquiring properties on FEMA's RL and SRL lists are unquantifiable until specific interested homeowners come forward, they would meet these criterion by definition, at a minimum.
<b>Cost estimate</b>	Project costs are unquantifiable at this time. They would depend on the particular home(s) in question, and the nature of the project the homeowner is interested in (acquisition, or elevation).
<b>Cost effectiveness (i.e., benefit/cost)</b>	Because our RL and SRL properties have incurred so much damage historically, it is highly probably that mitigating these properties would be cost effective. Specific determinations of cost-effectiveness would be done in the future on a case by case basis as interested homeowners come forward and project details are specified.
<b>Technical</b>	Elevation and acquisition are both technically feasible project types
<b>Political</b>	Our political leadership supports this type of project
<b>Legal</b>	While the municipality does not own the structures in question, we fully support the homeowners in moving forward
<b>Environmental</b>	No environmental impacts are anticipated at this time; this would be confirmed as specific homeowners come forward and their property details are reviewed. It is likely that environmental impacts would be positive, as household hazardous wastes are no longer introduced into floodwaters.
<b>Social</b>	No particular social group in our community is likely to be disproportionately impacted by this project; this would be re-evaluated as particular interested homeowners come forward.
<b>Administrative capability</b>	Our municipality has the administrative capabilities to manage an elevation and/or acquisition project
<b>Local champion</b>	affected homeowners, elected officials
<b>Other community objectives</b>	Improve and protect lifestyles of residents; reduction of costly property damage; resiliency; floodplain management; capital improvements
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	Homeowners; Mayor; Council; Administrator; Engineer; local ordinance; Hazard Mitigation Plan
<b>Responsible party</b>	Mayor and Council
<b>Potential funding sources</b>	FEMA hazard mitigation grant funding streams (i.e., HMGP, FMA, etc)
<b>Time line</b>	This is projected to be an ongoing type of activity, with our municipality supporting interested parties as they come forward.
<b>Reporting on Progress</b>	
<b>Action progress status</b>	New action

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Union Beach</i>
Community action number	<i>1</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Nor'easters, Hurricanes &amp; Tropical Storms, Flood, Storm Surge, Extreme Wind, coastal erosion, and wave action</i>
Risk finding	<i>The Army Corps of Engineers Shore Protection and Flood Control Project for Union Beach should be implemented and maintained to provide shore protection and flood control in the Borough.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>Implementation of the Army Corps of Engineers Shore Protection and Flood Control</i>
Action description	<i>Includes installation of earthen levees, concrete flood walls, interior leveels, primary and secondary drainage outlet structures, tide gate structures, road closure gate, road raising, three pump stations, beach fill and dune, two terminal groins, beach and dune re-nourishment every nine years.</i>
Existing, future &/or NA	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The entirety of Union Beach is within mapped surge hazard areas, and nearly all of the Borough was inundated during Hurricane Sandy. The Borough incurred millions of dollars in losses, and roughly 250 homes were destroyed. These losses totaled \$329,537,508.00. Implementing this project will help to mitigate any future losses.</i>
Cost estimate	<i>\$121,000,000.00 ( 2008 price levels)</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is cost effective because it would cost \$121,000,000.00 to save a potential loss of over \$329,537,508.00</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by council and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>There are no negative social effects going forward with this project</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the project and construction</i>
Local champion	<i>Council and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Mayor and Borough Council, ACOE, NJDEP</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
Time line	<i>Dependent upon municipality securing grant funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Union Beach</i>
Community action number	2
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
Risk finding	<i>Reduce potential damages to residential structures from high flood waters caused by Hurricanes, Tropical Storms and Nor'easters. The entirety of Union Beach is within mapped surge hazard areas, and nearly all of the Borough was inundated during Hurricane Sandy. The Borough incurred millions of dollars in losses, and roughly 250 homes were destroyed.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>Home Elevation</i>
Action description	<i>Elevating of approx. 1,222 homes to new FEMA FIRM maps</i>
Existing, future &/or NA	<i>Protecting existing structures</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The proposed mitigation will result in reduced future storm damages to residential structures, personal property and protect public health and safety during future events and could potentially result in a \$329,537,508 reduction in future storm damages to residential structures and personal property</i>
Cost estimate	<i>\$173,610,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>The proposed mitigation activities could potentially result in a \$329,537,508.00 reduction in future storm damages to residential structures and personal property. This project is expected to be cost effective, with benefits estimated at \$329,537,508 and costs of only \$173,610,000.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by council and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>Property owners may need to relocate while the home raising is implemented</i>
Administrative capability	<i>The community does have the personnel and homeowners will maintain projects</i>
Local champion	<i>Council and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents, additionally current code requires substantially damaged to elevate home</i>
Responsible party	<i>Homeowners and/or Borough Administrator</i>
Potential funding sources	<i>Private, ICC or FEMA SRL, HUD RREM</i>
Time line	<i>Dependent upon municipality securing residential funding and code compliance, a start date has not been identified</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Union Beach</i>
Community action number	3
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
Risk finding	<i>The intersection of Spruce Street , Center Street and fifth street intersection and Pine Street and Third Street intersection is not at a sufficient elevation, and is subject to flooding. These two roadways are located in a residential communisy and provide access to -he park and residential structures.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>Rdising roadway to minimum elevation 6.0 MSL (1222 datum)</i>
Action description	<i>Raising the elevation of the roadway to decrease the occurrence and severity of flooding in -he area</i>
Existing, future &/or NA	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The proposed road raising will prevent recurring damage and excessive maintenance costs caused by the periodic flooding. Currently, the periodic flooding of the roadway affects 50 homes, and causes necessary detours through existing residential neighborhoods, increasing travel times and traffic on residential streets. The proposed roadway elevation would reduce maintenance costs on -he subject roadway and eliminate -he need for detours through residential neighborhoods. Losses avoided as a result of the project are estimated to be \$222,307.25 (1.46*cost =r222,307.25)</i>
Cost estimate	<i>\$684,457.50</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is expected to be cost effective, with benefits of \$222,307.25 and costs of \$684,457.50 and has a benefit-cost ratio of 1.46</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by council and the mayor</i>
Legal	<i>The community does have the legal authorisy to implement -his project</i>
Environmental	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>There are no negative social effects going forward with this project</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement -his action as well as maintain ir. Borough would have to bid the project and construction</i>
Local champion	<i>Council and the mayor</i>
Other community objectives	<i>Capital Imvrovemf nts</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Borough Administrator</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
Time line	<i>Dependent upon municipality securing grant funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward from the last version of the plan</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Union Beach</i>
Community action number	4
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
Risk finding	<i>Reduce the incidence of flooding in the floodprone area of Front Streew Many roads in the Borough of Union Beach are floodprone. Ingress/egress becomes an issue. In addition, drivers who are unfamiliar with the area or who are caught unaware of flood conditions risk damaging personal property and life safety.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>Raising roadway elevation</i>
Action description	<i>Raising the elevation of the roadway to decrease the occurrence and severity of flooding in the area</i>
Existing, future &/or NA	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The proposed road raising will prevent recurring damage and excessive maintenance costs caused by the periodic flooding. The proposed roadway elevation would reduce maintenance costs on the subject roadway and eliminate the need for detours. Losses avoided are estimated to be around \$600,000.</i>
Cost estimate	<i>\$400,000.00</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits on the order of \$600,000 and costs on the order of \$400,000.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by council and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>There are no negative social effects going forward with this project</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the engineering and construction</i>
Local champion	<i>Council and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Borough Administrator</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, Borough funding, County Funding</i>
Time line	<i>Dependent upon municipality securing grant funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Union Beach</i>
<b>Community action number</b>	5
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
<b>Risk finding</b>	<i>Reduce potential damages to Department of Public Works main building from high flood waters caused by storm surge. The Department of Public Works Building is located in a floodprone area and the Borough is unable to provide emergency repair services during flooding events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural</i>
<b>Action type</b>	<i>Relocate Department of Public Works main building</i>
<b>Action description</b>	<i>Relocate Department of Public Works main building to a location above the FEMA working FIRMLmaps</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The proposed mitigation will result in reduced future storm damages to DPW structure. The proposed mitigation activities will prevent future damage and loss to this structure which has sustained major storm damages from Hurricane Sandy. Losses avoided could potentially range from \$150,000 to \$200,000 each year.</i>
<b>Cost estimate</b>	<i>\$1,500,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits in the millions of dollars and costs on the order of \$1,500,000.</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by council and the mayor</i>
<b>Legal</b>	<i>The community does have the legal authority to implement this project</i>
<b>Environmental</b>	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
<b>Social</b>	<i>DPW workers may need to relocate while the structure is relocated</i>
<b>Administrative capability</b>	<i>The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the engineering and construction</i>
<b>Local champion</b>	<i>Council and the mayor</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
<b>Responsible party</b>	<i>Borough Administrator</i>
<b>Potential funding sources</b>	<i>FEMA HazGrd Mitigation Grant, Borough funding, CDBG</i>
<b>Time line</b>	<i>Dependent upon municipality securing funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New Action</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Union Beach</i>
Community action number	6
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
Risk finding	<i>The Harris Garden Fire Company Building is located in a floodprone area and the Borough is unable to provide firefighting services during flooding events.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>Relocate Harris Garden Fire Company Building</i>
Action description	<i>Relocate Harris Garden Fire Company Building to a location above the FEMA working FIRMaps</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The proposed mitigation activities will prevent future damage and loss to this structure which has sustained major storm damages from Hurricane Sandy. The proposed mitigation will result in reduced future storm damages to Harris Garden Fire Company structure. Losses avoided could range from \$250,000 to \$500,000 each year.</i>
Cost estimate	<i>\$1,500,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits in the millions of dollars and costs on the order of \$1,500,000</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by council and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>Harris Garden Fire Company workers may need to relocate while the structure is relocated</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the engineering and construction</i>
Local champion	<i>Council and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Borough Administrator</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, Borough funding, CDBG</i>
Time line	<i>Dependent upon municipality securing funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward from the last version of the plan</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Union Beach</i>
Community action number	7
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
Risk finding	<i>A section of Florence Avenue is not at a sufficient elevation, and is subject to flooding. This road is important for maintaining egress and ingress in the municipality.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>Raising roadway elevation</i>
Action description	<i>Raising the elevation of the roadway to decrease the occurrence and severity of flooding in the area</i>
Existing, future &/or NA	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The proposed road raising will prevent recurring damage and excessive maintenance costs caused by the periodic flooding. The proposed roadway elevation would reduce maintenance costs on the subject roadway and eliminate the need for detours. Losses avoided could range from in the tens of thousands to hundreds of thousands of dollars per year.</i>
Cost estimate	<i>\$300,000.00</i>
Cost effectiveness (i.e., benefit/cost)	<i>The proposed project is likely to be cost effective, with benefits in the hundreds of thousands to millions of dollars and costs on the order of \$300,000.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by council and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>There are no negative social effects going forward with this project</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the engineering and construction</i>
Local champion	<i>Council and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Borough Administrator</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, Borough funding, County funding</i>
Time line	<i>Dependent upon municipality securing grant funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward from the last version of the plan</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Union Beach</i>
Community action number	<i>8</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
Risk finding	<i>Many roads in the Borough of Union Beach are floodprone. Ingress/egress becomes an issue. In addition, drivers who are unfamiliar with the area or who are caught unaware of flood conditions risk damaging personal property and life safety.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>installation of flood warning signage</i>
Action description	<i>Installation of flood warning signs in floodprone areas</i>
Existing, future &/or NA	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Having the proper flood warning signage is important to alert the public of floodprone areas and reduce risk to health and safety. The proposed action is important to ensure the health and safety of motorists and pedestrians in floodprone areas to avoid potential incidents related to flooding. Losses avoided are estimated to be in the tens of thousands of dollars per year.</i>
Cost estimate	<i>\$5,000.00</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits in the tens of thousands of dollars per year and costs of only \$5,000.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by council and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>There are no negative social effects going forward with this project</i>
Administrative capability	<i>The community does have the personnel and administrative capability to maintain it.</i>
Local champion	<i>Council and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Office of Emergency Management</i>
Potential funding sources	
Time line	<i>Dependent upon municipality securing grant funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward from the last version of the plan</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Union Beach</i>
<b>Community action number</b>	2
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
<b>Risk finding</b>	<i>Cleaning and maintenance of waterways. These are priority for the Borough in order to ensure property drainage of flood waters and to reduce flooding events in the Borough.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural</i>
<b>Action type</b>	<i>Maintenance</i>
<b>Action description</b>	<i>Debris and sediment accumulation in receiving waterways and creeks impedes flood flows.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Maintenance of these waterways is important to ensure proper drainage and protect health and safety of the borough residents. Losses avoided could be tens of thousands to hundreds of thousands of dollars.</i>
<b>Cost estimate</b>	<i>\$5,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits estimated to tens to hundreds of thousands of dollars and costs of only \$5,000.</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by council and the mayor</i>
<b>Legal</b>	<i>The community does have the legal authority to implement this project</i>
<b>Environmental</b>	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
<b>Social</b>	<i>There are no negative social effects going forward with this project</i>
<b>Administrative capability</b>	<i>The community does have the personnel and administrative capability to maintain it.</i>
<b>Local champion</b>	<i>Council and the mayor</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
<b>Responsible party</b>	<i>Public Works, County Mosquito Commission</i>
<b>Potential funding sources</b>	<i>NRCS</i>
<b>Time line</b>	<i>The Borough continues to maintain these features through their existing capital budget</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward from the last version of the plan</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Union Beach</i>
Community action number	<i>10</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Coastal erosion and wave action, Flood, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
Risk finding	<i>The existing shore protection features (bulkhead, beach area) are the borough's first line of defense against wave action, storm surge, and flooding during storm events. Gaps in the line of protection, variations in the design level, or unmitigated circumstances that compromise the function of the overall system increase the vulnerability of people and property in the protected area.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>Maintenance</i>
Action description	<i>Maintenance of the existing shore protection features (bulkhead, beach area)</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Maintenance of these structures is important to protect the borough from flooding and wave action. The proposed maintenance is important to ensure proper functionality of these structures. Losses avoided could potentially be in the millions of dollars from damage to structures in the protected area.</i>
Cost estimate	<i>\$100,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits estimated to be in the millions of dollars and costs of only about \$100,000.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by council and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>There are no negative social effects going forward with this project</i>
Administrative capability	<i>The community does have the personnel and administrative capability to maintain it.</i>
Local champion	<i>Council and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Borough Engineer, Public Works</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
Time line	<i>Dependent upon municipality securing grant funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward from the last version of the plan</i>

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of Union Beach</i>
Community action number	<i>11</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
Risk finding	<i>The existing shore protection features (bulkhead, beach area) are the borough's first line of defense against wave action, storm surge, and flooding during storm events. Gaps in the line of protection, variations in the design level, or unmitigated circumstances that compromise the function of the overall system increase the vulnerability of people and property in the protected area.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>Constructing stone reventment wall</i>
Action description	<i>Construct a stone revetment wall along the Raritan Bay Waterfront beginning at the point of juncture of the Raritan Bay and Flat Creek and continuing east along the Borough's bay front for approximately 875 linear feet</i>
Existing, future &/or NA	<i>Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The proposed stone revetment wall will provide slope protection against storm surge, wave action and coastal erosion to residential structures. The Borough estimates that the project will protect 47 homes, at an estimated total value of \$8,030,044.00, these homes were destroyed during the storm, these losses could be mitigated by the installation of this stone reventment wall</i>
Cost estimate	<i>\$1,900,000.00</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits on the order of \$8,030,044.00 and costs of roughly \$1,900,000.00.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by council and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are potential environmental impacts caused by this project. It will comply with all federal, state, and local regulations</i>
Social	<i>There are no negative social effects going forward with this project</i>
Administrative capability	<i>The community does have the personnel and administrative capability to implement this action as well as maintain it. The Borough would have to bid the project and construction</i>
Local champion	<i>Council and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
Responsible party	<i>Borough Administrator</i>
Potential funding sources	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
Time line	<i>Dependent upon municipality securing grant funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New Action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Union Beach</i>
<b>Community action number</b>	<i>19</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge</i>
<b>Risk finding</b>	<i>Cleaning and maintenance of the existing storm drains and inlets to prevent flooding, Union Beach is highly susceptible to storm surge and flooding therefore maintaining these systems is crucial</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural</i>
<b>Action type</b>	<i>Maintenance</i>
<b>Action description</b>	<i>Cleaning and maintenance of the existing storm drains and inlets</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Maintenance of these structures is important to protect the borough from flooding. The proposed maintenance is important to ensure proper functionality of these structures. Losses avoided are estimated to be in the tens of thousands of dollars per year.</i>
<b>Cost estimate</b>	<i>\$5,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits in the tens of thousands of dollars per year and costs of only \$5,000.</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by council and the mayor</i>
<b>Legal</b>	<i>The community has the legal authority to implement this project</i>
<b>Environmental</b>	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
<b>Social</b>	<i>There are no negative social effects going forward with this project</i>
<b>Administrative capability</b>	<i>The community has the personnel and administrative capability to maintain it</i>
<b>Local champion</b>	<i>Council and the mayor</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
<b>Responsible party</b>	<i>Public Works</i>
<b>Potential funding sources</b>	<i>Borough funding, FEMA grant funding</i>
<b>Time line</b>	<i>The Borough continues to maintain these features through their existing capital budget</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward from the last version of the plan</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of Union Beach</i>
<b>Community action number</b>	13
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Nor'easters, Hurricanes &amp; Tropical Storms, Extreme Wind, Extreme Temperature, Tornado, Winter Storm, Lightning</i>
<b>Risk finding</b>	<i>Keeping the public informed of incoming atmospheric hazards is crucial to the health and safety of borough residents during storm events. Upgrading the existing system will keep the system capable with surrounding communities and the county.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Planning Mechanism</i>
<b>Action type</b>	<i>Upgrade</i>
<b>Action description</b>	<i>Upgrade boroughs existing emergency warning system</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Keeping the borough informed of incoming weather events is crucial in giving adequate warning before storms and allow for proper preparation and evacuation if necessary. The losses avoided could be in the hundreds of thousands of dollars in damages caused by injury.</i>
<b>Cost estimate</b>	<i>\$5,000.00</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>The project is cost effective with potential benefits in the hundreds of thousands of dollars and a cost of only about \$5,000.</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by council and the mayor</i>
<b>Legal</b>	<i>The community does have the legal authority to implement this project</i>
<b>Environmental</b>	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
<b>Social</b>	<i>There are no negative social effects going forward with this project</i>
<b>Administrative capability</b>	<i>The community does have the personnel and administrative capability to maintain it.</i>
<b>Local champion</b>	<i>Council and the mayor</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
<b>Responsible party</b>	<i>Office of Emergency Management, Police Department</i>
<b>Potential funding sources</b>	<i>FEMA Hazard Mitigation Grant, Borough funding</i>
<b>Time line</b>	<i>Dependent upon municipality securing grant funding, a start date has not been identified</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward from the last version of the plan</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<b>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</b>
<b>Your community name</b>	<b>UPPER FREEHOLD TOWNSHIP</b>
<b>Community action number</b>	1
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	All
<b>Risk finding</b>	The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities.
<b>Describing the Action</b>	
<b>Action category</b>	Awareness and education
<b>Action type</b>	Increase hazard education and risk awareness
<b>Action description</b>	On-going development of education materials for distribution on the Township website and the OEM FaceBook portal as well as print materials. Emergency notifications will be made as necessary via the Township's emergency notification system.
<b>Existing, future &amp;/or NA</b>	NA
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Losses avoided are unquantifiable; however, raising awareness can reduce the number of injuries & fatalities associated with exposure to-hazard events as well as prepare the community and identify vulnerable populations and that benefit is expected to be well over the project costs of about \$5,000 or less. Public education will identify various methods to manage during extreme temperatures as well as assist those in need of assistance.
<b>Cost estimate</b>	Low. Less than \$5,000. The cost of materials for distribution is relatively low due to the large amount of content already available in the public domain
<b>Cost effectiveness (i.e., benefit/cost)</b>	This project is likely to be cost effective, with unquantifiable benefits expected to be well in excess of the project's cost of under \$5,000.
<b>Technical</b>	Highly feasible. The Township maintains a website with content reserved for the Office of Emergency Management. The Office of Emergency Management maintains a FaceBook site with access to more than 700 community members. In addition, the Office of Emergency Management utilizes a Community Notification System with GIS integration to identify & notify property owners and residents in the event of an emergency.
<b>Political</b>	There is continued community & local government support for this mitigation.
<b>Legal</b>	The community is authorized to continue to implement & maintain this action.
<b>Environmental</b>	Not applicable
<b>Social</b>	This mitigation is available to all members of the community.
<b>Administrative capability</b>	The Office of Emergency Management maintains this content
<b>Local champion</b>	Emergency Management Coordinator, The Office of Emergency Management
<b>Other community objectives</b>	
<b>Implementing the Action</b>	
<b>Priority</b>	High priority
<b>Local planning mechanism</b>	Upper Freehold Office of Emergency Management and the Upper Freehold Local Emergency Preparedness Council
<b>Responsible party</b>	Emergency Management Coordinator, Office of Emergency Management
<b>Potential funding sources</b>	Local budget and personnel are able to maintain & further develop this mitigation.
<b>Time line</b>	Immediate & on-going
<b>Reporting on Progress</b>	
<b>Action progress status</b>	Carried forward (expanded to include outreach on non-flood hazards as well as flood hazards)

Action Worksheet	
Your plan name	Monmouth County Multi-jurisdictional Hazard Mitigation Plan
Your community name	UPPER FREEHOLD TOWNSHIP
Community action number	2
Assessing the Risk	
Hazard(s) addressed	FLOODING (during high rain events or during severe storms such as hurricanes, tropical storms, and nor'easters)
Risk finding	Upper Freehold Township is located 26 miles from the Atlantic coastline in the Northeastern US. Coastal flooding is not a high threat, however inland, localized flooding is possible in areas within the Township. Past flooding conditions have been the result of severe storms, hurricanes & rapid snowmelt. Local farms can contribute to the hazard as the rapid accumulation of water can become run-off from farms and flood roadways, homes or adjacent property. Accumulation of sediment, debris and fallen trees impedes flood flows. Examples are at Bridges U-15 Breza Road and U-52 Ellisdale Road.
Describing the Action	
Action category	Structure and infrastructure
Action type	Regular maintenance for drainage systems and flood control structures; improve drainage system capacity
Action description	Seasonal cleanup of culverts, roadside water management ditches and drainage basins in flood prone areas.
Existing, future &/or NA	Existing & Future
Evaluating the Action	
Losses avoided (i.e., benefits)	Proactive clean-up can reduce the likelihood flooding may occur possibly eliminating or reducing repair/recovery costs and damage to property & infrastructure. Losses avoided are difficult to quantify but are estimated to be on the order greater than \$100,000 per year.
Cost estimate	Low-moderate \$10,000-25,000 (annually).
Cost effectiveness (i.e., benefit/cost)	Costs associated with proactive clean-up will be much less than responding to damage caused by flooding, closure of roadways and further impact to the community. The project is likely to be cost effective, with benefits exceeding \$50,000 per year and costs on the order of \$10,000 to \$25,000 per year.
Technical	The Township operates a Department of Public Works.
Political	There is continued community & local government support for this mitigation.
Legal	The community is authorized to continue to implement & maintain this action.
Environmental	Not applicable
Social	This mitigation is available to all members of the community.
Administrative capability	The Department of Public Works is the primary group associated with this mitigation
Local champion	Supervisor, Department of Public Works
Other community objectives	
Implementing the Action	
Priority	Seasonal priority
Local planning mechanism	Upper Freehold Department of Public Works, Office of Emergency Management and the Upper Freehold Local Emergency Preparedness Council
Responsible party	Supervisor, Department of Public Works
Potential funding sources	Local budget and personnel are able to maintain & further develop this mitigation.
Time line	Immediate & on-going
Reporting on Progress	
Action progress status	Carried forward (Worksheet #5,4F)

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>UPPER FREEHOLD TOWNSHIP</i>
<b>Community action number</b>	<i>3</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>flooding, hurricanes, tropical storms, and nor'easters</i>
<b>Risk finding</b>	<i>Flooding has significant impacts in Upper Freehold, with repetitive loss areas in need of mitigation.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and infrastructure project</i>
<b>Action type</b>	<i>Mitigate floodprone residential structures</i>
<b>Action description</b>	<i>Phase 1 - Meet with local zoning board to raise awareness of repetitive flood loss and meet with home &amp; property owners with repetitive loss due to flooding to identify mitigation options and seek input to develop a strategy (i.e., elevation, acquisition, floodproofing, etc.). This action is regarding the single property in Upper Freehold on FEMA's repetitive loss list. This property has had 6 losses between 1984 and 2012 totaling \$50,532 in damages (\$43,840 in damages to the building and \$6,692 in contents damages). Phase 2 - Submit a FEMA mitigation project grant application on behalf of the homeowner for the mitigation project of their choice.</i>
<b>Existing, future &amp;/or NA</b>	<i>existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>A single property in Upper Freehold is on FEMA's repetitive loss list. It has had 6 losses between 1984 and 2012 totaling \$50,532 in damages (\$43,840 in damages to the building and \$6,692 in contents damages).</i>
<b>Cost estimate</b>	<i>There is no cost for a Phase 1 meeting, and Phase 2 cost will be determined after the homeowner selects a strategy..</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Based on the NFIP payouts, which are about \$1,800 per year, the ultimate project selected is only likely to be cost effective if it has an annual cost of at or below \$1,800 per year as well.</i>
<b>Technical</b>	<i>Phase 1 - meeting - technically feasible; Phase 2 - Typical flood mitigation project types (acquisition, elevation, floodproofing) are all technically feasible types.</i>
<b>Political</b>	<i>There is continued community &amp; local government support for this mitigation.</i>
<b>Legal</b>	<i>The community is authorized to continue to implement &amp; maintain this action.</i>
<b>Environmental</b>	<i>Not applicable</i>
<b>Social</b>	<i>This mitigation is available to all members of the community.</i>
<b>Administrative capability</b>	<i>The Office of Emergency Management maintains this content</i>
<b>Local champion</b>	<i>The Office of Emergency Management maintains this content</i>
<b>Other community objectives</b>	
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High priority</i>
<b>Local planning mechanism</b>	<i>Upper Freehold Office of Emergency Management and the Upper Freehold Local Emergency Preparedness Council</i>
<b>Responsible party</b>	<i>Emergency Management Coordinator, Office of Emergency Management</i>
<b>Potential funding sources</b>	<i>Local budget and personnel are able to maintain &amp; further develop this mitigation.</i>
<b>Time line</b>	<i>Immediate &amp; on-going</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	Monmouth County Multi-jurisdictional Hazard Mitigation Plan
<b>Your community name</b>	UPPER FREEHOLD TOWNSHIP
<b>Community action number</b>	4
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Extreme wind (alone or during severe storms such as hurricanes, tropical storms, nor'easters, and winter storms)
<b>Risk finding</b>	High winds during severe storms causes trees and limbs to fall, damaging property, interrupting electrical service, and blocking roadways.
<b>Describing the Action</b>	
<b>Action category</b>	Natural resource protection
<b>Action type</b>	Reduction of tree & tree limb hazards
<b>Action description</b>	Identify trees and/or tree limbs with the potential to cause loss of life, property damage, utility loss or road closure. Advise property owners of potential hazards and where appropriate, engage community resources and/or utility company resources to mitigate potential hazards.
<b>Existing, future &amp;/or NA</b>	Existing
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Losses avoided are unquantifiable; however, raising awareness can reduce the number of injuries & fatalities associated with exposure to wind hazard events as well as prepare the community and identify vulnerable potential hazards and that benefit is expected to be well over the project costs of about \$5,000 or less. Identifying and mitigating potential hazards in conjunction with public education will identify various methods to manage during extreme temperatures as well as assist those in need of assistance.
<b>Cost estimate</b>	Moderate. Less than \$25,000 per year. The cost of materials for distribution for public education is relatively low due to the large amount of content already available in the public domain. Community resources and project management costs account for the greatest portion of the projected costs. Variables influencing actual costs include the number and impact of hurricanes & tropical storms, severe winter storms (significant snow & ice) & Nor'easters.
<b>Cost effectiveness (i.e., benefit/cost)</b>	This project is likely to be cost effective, with unquantifiable benefits expected to be well in excess of the project's cost of under \$25,000.
<b>Technical</b>	Highly feasible. The Township maintains a website with content reserved for the Office of Emergency Management. The Office of Emergency Management maintains a Facebook site with access to more than 700 community members. In addition, the Office of Emergency Management utilizes a Community Notification System with GIS integration to identify & notify property owners and residents in the event of an emergency.
<b>Political</b>	There is continued community & local government support for this mitigation.
<b>Legal</b>	The community is authorized to continue to implement & maintain this action.
<b>Environmental</b>	Not applicable
<b>Social</b>	This mitigation is available to all members of the community.
<b>Administrative capability</b>	The Office of Emergency Management maintains this content
<b>Local champion</b>	The Office of Emergency Management maintains this content
<b>Other community objectives</b>	
<b>Implementing the Action</b>	
<b>Priority</b>	High priority
<b>Local planning mechanism</b>	Upper Freehold Office of Emergency Management and the Upper Freehold Local Emergency Preparedness Council, Upper Freehold Department of Public Works and community outreach.
<b>Responsible party</b>	Emergency Management Coordinator, Office of Emergency Management
<b>Potential funding sources</b>	Local budget and personnel are able to maintain & further develop this mitigation.
<b>Time line</b>	Immediate & on-going
<b>Reporting on Progress</b>	
<b>Action progress status</b>	Carried forward. A continued proactive approach to this potential hazard is on-going.

<b>Action Worksheet</b>	
<b>Your plan name</b>	Monmouth County Multi-jurisdictional Hazard Mitigation Plan
<b>Your community name</b>	UPPER FREEHOLD TOWNSHIP
<b>Community action number</b>	5
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Wildfire
<b>Risk finding</b>	Develop an inventory of addresses that could be affected by a wildfire. Use inventory and develop a route alerting system.
<b>Describing the Action</b>	
<b>Action category</b>	Education and Awareness
<b>Action type</b>	Response
<b>Action description</b>	Develop an inventory of addresses that could be affected by a wildfire. Use inventory and develop a route alerting system. Identify property owners for focused outreach, education & awareness of wildfire hazards.
<b>Existing, future &amp;/or NA</b>	NA
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Losses avoided are unquantifiable; however, raising awareness can reduce the number of injuries & fatalities associated with exposure to wildfire hazard events as well as prepare the community and identify vulnerable potential hazards. That benefit is expected to be well over the project costs of about \$5,000 or less. Identifying and mitigating potential hazards in conjunction with public education will identify various methods to manage during conditions favorable towards the development of wildfires in addition to the development of a management strategy during a wildfire event.
<b>Cost estimate</b>	Costs are estimated to be on the order of \$5,000.
<b>Cost effectiveness (i.e., benefit/cost)</b>	Although the losses avoided may be unquantifiable as compared to costs of only \$5,000. This project is likely to be cost effective as the average home in Upper Freehold Township is valued at approximately \$446,000 and low to moderate damage due to a wildfire could cost 10% to 25% of the home value.
<b>Technical</b>	Highly feasible. The Township maintains a website with content reserved for the Office of Emergency Management. The Office of Emergency Management maintains a FaceBook site with access to more than 700 community members. In addition, the Office of Emergency Management utilizes a Community Notification System with GIS integration to identify & notify property owners and residents in the event of an emergency.
<b>Political</b>	There is continued community & local government support for this mitigation.
<b>Legal</b>	The community is authorized to continue to implement & maintain this action.
<b>Environmental</b>	Not applicable
<b>Social</b>	This mitigation is available to all members of the community.
<b>Administrative capability</b>	The Department of Public Works is the primary group associated with this mitigation
<b>Local champion</b>	Supervisor, Department of Public Works
<b>Other community objectives</b>	
<b>Implementing the Action</b>	
<b>Priority</b>	High priority
<b>Local planning mechanism</b>	Upper Freehold Office of Emergency Management and the Upper Freehold Local Emergency Preparedness Council
<b>Responsible party</b>	Emergency Management Coordinator, Office of Emergency Management
<b>Potential funding sources</b>	Local budget and personnel are able to maintain & further develop this mitigation.
<b>Time line</b>	Immediate & on-going
<b>Reporting on Progress</b>	
<b>Action progress status</b>	Carried forward

<b>Action Worksheet</b>	
<b>Your plan name</b>	Monmouth County Multi-jurisdictional Hazard Mitigation Plan
<b>Your community name</b>	UPPER FREEHOLD TOWNSHIP
<b>Community action number</b>	6
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Flooding, hurricanes, tropical storms, and nor'easters
<b>Risk finding</b>	Scour has become an issue during periods of significant rainfall and runoff at: Bridges U-15 Breza Road and U-52 Ellisdale Road.
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure
<b>Action type</b>	Protect infrastructure
<b>Action description</b>	Cleaning of sediment & debris and removal of fallen trees which block waterways at bridges U-15 Breza Road and U-52 Ellisdale Road - Upper Freehold does not have jurisdiction over these county bridges. Our action will be to meet with the County advise them of the issues we have observed.
<b>Existing, future &amp;/or NA</b>	Existing and future
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Losses avoided are unquantifiable
<b>Cost estimate</b>	Costs are estimated to be minimal associated with staff time to meet with the County.
<b>Cost effectiveness (i.e., benefit/cost)</b>	This action is likely to be cost effective, with the staff time costs associated with attendance at a meeting being far less than the damages that can occur by doing nothing. Cost effectiveness of the mitigation solution itself are unable to be determined at this time, as they would ultimately depend on the course of action selected by the County as far as the brick and mortar project itself.
<b>Technical</b>	The Upper Freehold Township Department of Public Works will identify known issues and communicate them with the appropriate Monmouth County agency.
<b>Political</b>	Township doesn't have jurisdiction to fix the problem directly, but is going to team up with the appropriate Monmouth County agency that can fix the problem.
<b>Legal</b>	Upper Freehold Township does not have jurisdiction over these county bridges..
<b>Environmental</b>	Not applicable
<b>Social</b>	This mitigation is available to all members of the community.
<b>Administrative capability</b>	The Department of Public Works is the primary group associated with this mitigation
<b>Local champion</b>	Supervisor, Department of Public Works
<b>Other community objectives</b>	
<b>Implementing the Action</b>	
<b>Priority</b>	Seasonal priority
<b>Local planning mechanism</b>	Upper Freehold Department of Public Works, Office of Emergency Management and the Upper Freehold Local Emergency Preparedness Council
<b>Responsible party</b>	Supervisor, Department of Public Works
<b>Potential funding sources</b>	Local budget and personnel are able to maintain & further develop this mitigation.
<b>Time line</b>	Immediate & on-going
<b>Reporting on Progress</b>	
<b>Action progress status</b>	Carried forward

## Action Worksheet

<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>UPPER FREEHOLD TOWNSHIP</i>
<b>Community action number</b>	<i>7</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding, hurricanes, tropical storms, and nor'easters</i>
<b>Risk finding</b>	<i>Scour has become an issue during periods of significant rainfall and runoff at: Bridge U-53 Provinceline Road; and Bridges U-47 &amp; U-48 Walnsmill Road.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and Infrastructure</i>
<b>Action type</b>	<i>Protect infrastructure</i>
<b>Action description</b>	<i>Roadway bank protection at Bridge U-53 Provinceline Road; and Bridges U-47 &amp; U-48 Walnsmill Road. Since Upper Freehold does not have jurisdiction over these county bridges, our action will be to meet with the County advise them of the issues we have observed.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Losses avoided are unquantifiable</i>
<b>Cost estimate</b>	<i>Costs are estimated to be minimal associated with staff time to meet with the County.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This action is likely to be cost effective, with the staff time costs associated with attendance at a meeting being far less than the damages that can occur by doing nothing. Cost effectiveness of the mitigation solution itself are unable to be determined at this time, as they would ultimately depend on the course of action selected by the County as far as the brick and mortar project itself.</i>
<b>Technical</b>	<i>The Upper Freehold Township Department of Public Works will identify known issues and communicate them with the appropriate Monmouth County agency.</i>
<b>Political</b>	<i>Township doesn't have jurisdiction to fix the problem directly, but is going to team up with the appropriate Monmouth County agency that can fix the problem.</i>
<b>Legal</b>	<i>Upper Freehold Township does not have jurisdiction over these county bridges..</i>
<b>Environmental</b>	<i>Not applicable</i>
<b>Social</b>	<i>This mitigation is available to all members of the community.</i>
<b>Administrative capability</b>	<i>The Department of Public Works is the primary group associated with this mitigation</i>
<b>Local champion</b>	<i>Supervisor, Department of Public Works</i>
<b>Other community objectives</b>	
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Seasonal priority</i>
<b>Local planning mechanism</b>	<i>Upper Freehold Department of Public Works, Office of Emergency Management and the Upper Freehold Local Emergency Preparedness Council</i>
<b>Responsible party</b>	<i>Supervisor, Department of Public Works</i>
<b>Potential funding sources</b>	<i>Local budget and personnel are able to maintain &amp; further develop this mitigation.</i>
<b>Time line</b>	<i>Immediate &amp; on-going</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Township of Wall</i>
<b>Community action number</b>	<i>1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm, Storm Surge, Extreme Temperature, Lightning, and Other severe storms</i>
<b>Risk finding</b>	<i>JCP&amp;L's Glendola Substation was flooded during Hurricane Sandy, knocking out power to a large portion of the Township. A large portion of our community was left without power including the Wall Township Police Department, Wall Township Office of Emergency Management Emergency Operation Center, Wall Township Municipal Building, Water Treatment Plants and Wastewater Pump Stations. Wall's population is projected to experience moderate growth through 2040. By the year 2040, it is projected to have a population increase of 17.5% over 2010 values. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather events.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Emergency Power</i>
<b>Action type</b>	<i>Install emergency power</i>
<b>Action description</b>	<i>Upgrade and install emergency power to the Wall Township Police Department, Wall Township Office of Emergency Management Emergency Operation Center, Wall Township Municipal Building, Water Treatment Plants and Wastewater Pump Stations.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The proposed improvements will ensure backup power in the event of primary power loss. This action is necessary to protect the health and safety of individuals in the Township of Wall during natural disasters and prevent future losses. Losses avoided are estimated to be roughly on the order of <u>\$500,000</u>.</i>
<b>Cost estimate</b>	<i>\$1,000,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is estimated to be cost effective, with benefits of <u>\$500,000</u> and costs of <u>\$1million</u>.</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by Township Administrator and members of the Township Committee</i>
<b>Legal</b>	<i>The community does have the legal authority to implement This project</i>
<b>Environmental</b>	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
<b>Social</b>	<i>There are no social impacts from this project on the community</i>
<b>Administrative capability</b>	<i>The community does have the personnel and administrative capability implement This action as well as maintain it. Township would have to bid the project and construction</i>
<b>Local champion</b>	<i>Township Administrator and members of the Township Committee</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents</i>
<b>Responsible party</b>	<i>Township Administrator</i>
<b>Potential funding sources</b>	<i>FEMA Hazard Mitigation Grant, Township funding</i>
<b>Time line</b>	<i>Ongoing as funds are available</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New Action</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	Monmouth County Multi-jurisdictional Hazard Mitigation Plan
<b>Your community name</b>	Township of Wall
<b>Community action number</b>	2
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Wildfire and Extreme Wind (periods of high wind and during storm events such as nor'easters, hurricanes, tropical storms, extreme temperature, lightning and other severe storms)
<b>Risk findings</b>	Much of the western portion of Wall Township is located in mapped moderate to extreme wildfire risk areas. Dead and hazardous trees exist at various locations throughout the town presenting fuel sources for wildfire. In addition to the inherent risks associated with dead and hazardous trees in moderate and extreme wildfire risk areas, dead and hazardous trees are more likely to fall as a result of wind during various types of storms. Downed trees block roadways and take down powerlines as they fall. Blocked roadways hamper transportation of all types; most importantly, emergency services. Power outages hamper communications (particularly emergency services type).
<b>Action category</b>	Natural Systems Protection
<b>Action type</b>	Fuel management (right-of-way clearing)
<b>Action description</b>	Removal of dead and hazardous trees along Township roads
<b>Existing, future &amp;/or NA</b>	Existing and future development
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Removes dead trees from right-of-way, prevents fires from jumping roads and into adjacent subdivisions. Also reduces the likelihood of power outages from downed trees falling on powerlines. Average annual losses estimated in excess of \$5,000; plus unquantifiable life safety benefits associated with maintaining emergency services communications and transportation.
<b>Cost estimate</b>	\$5,000 per year for annual removal program
<b>Cost effectiveness (i.e., benefit/cost)</b>	Likely to be cost effective. Benefits estimated in excess of \$5,000 plus unquantifiable life safety benefits associated with maintaining emergency services communications and transportation. Costs estimated at only about \$5,000 per year.
<b>Technical</b>	This mitigation is technically feasible. Will help remove dead trees from the roadway, additionally providing a safe roadway access for emergency vehicles.
<b>Political</b>	No apparent political issues.
<b>Legal</b>	No apparent legal issues.
<b>Environmental</b>	No adverse environmental impacts caused by this project and it will comply with all federal, state, and local regulations.
<b>Social</b>	There are no social impacts from this project on the community.
<b>Administrative capability</b>	The community does have the personnel and administrative capability to implement this action as well as maintain it.
<b>Local champion</b>	Residents of Wall, Monmouth County Shade Tree & Fire Commissions
<b>Other community objectives</b>	Shade Tree Commission safety program
<b>Implementing the Action</b>	
<b>Priority</b>	Medium
<b>Local planning mechanism</b>	Mitigation activities will be implemented according to all governing regulatory documents.
<b>Responsible party</b>	Township Administrator
<b>Potential funding sources</b>	HMGP, RFC, SRL and FMA. For 25% local match, in-kind services
<b>Time line</b>	Ongoing as funds are available
<b>Reporting on Progress</b>	
<b>Action progress status</b>	New Action

<b>Action Worksheet</b>	
<b>Your plan name</b>	Monmouth County Multi-jurisdictional Hazard Mitigation Plan
<b>Your community name</b>	Wall Township
<b>Community action number</b>	Wall -3-Desiltation of Shark River Basin
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Hurricane/Tropical Storm/Flooding/Storm Surge
<b>Risk finding</b>	Wall Township is a coastal community with a substantial amount of land lying within mapped flood and storm surge hazard areas. Debris and siltation in Shark River obstructs flood flows. limited capacity causes evacuations, road closures, property damage. During Hurricane Sandy areas near the Shark River were flooded. Both private homes and public infrastructure were severely impacted.
<b>Describing the Action</b>	
<b>Action category</b>	Nonstructural project; flood control
<b>Action type</b>	Removal of silt and sediment from the Shark River Basin
<b>Action description</b>	Dredge or pump siltation from entire Shark River Basin to Confined Disposal Facility (CDF)
<b>Existing, future &amp;/or NA</b>	Protects both existing and future development; existing and future infrastructure; provides additional capacity in the Shark River Basin.
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	OEM personnel, evacuations, road closures, public infrastructure, public and private property loss. Improvements will increase the volume of the Shark River Basin allowing for more storage of stormwater runoff from the surrounding area, therefore helping alleviate flooding within the entire watershed during high tides (2-3 times a month) and major storm events. Additionally the improvements will also provide a recreational benefit to residents of the Township and bordering municipalities who use the river for bathing, boating, and general recreation. Losses avoided for this project are estimated to be \$128,099.00/year.
<b>Cost estimate</b>	Removal of silt and sediment = 1,000,000 CY @ \$30/CY is approximately \$30,000,000.00, with a useful life of approximately 50 years, this equals \$600,000.00/year.
<b>Cost effectiveness (i.e., benefit/cost)</b>	This project is not likely to be cost effective, with estimated benefits of \$128,099.00/year and costs of \$600,000.00/year.
<b>Technical</b>	Technically feasible. Cooperation needed from NJDEP, ACOE and adjoining municipalities
<b>Political</b>	Wall Township Committee would have to jointly work on this project with Neptune, Neptune City, Belmar and NJDEP and NJDOT
<b>Legal</b>	Legal issue is the ownership of the Shark River Basin
<b>Environmental</b>	NJDEP, ACOE permitting required
<b>Social</b>	Proposed action will help to protect flood prone neighborhoods.
<b>Administrative capability</b>	State would have to administer in conjunction with Township . Would have to be a joint effort between Neptune, Neptune City, Belmar, Wall, NJDEP and NJDOT.
<b>Local champion</b>	Wall Township, Neptune Township, Neptune City, NJDOT, Belmar, Friends of Belmar Harbor, Shark River Yacht Club, Homeowners Associations
<b>Other community objectives</b>	Provides not only additional capacity and flood protection but helps to reestablish the marine environment through better cleansing of the river and improved Tidal flow. Also alleviates safety issues associated with the siltation of the river with regards to the boating and recreational communities (i.e. paddleboarders, jet skiers, etc who are at risk with no water and siltation of the river)
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	Plans and specifications;
<b>Responsible party</b>	Wall Township, Neptune City, NJDEP, Neptune, Belmar, NJDOT
<b>Potential funding sources</b>	FEMA, NJDOT, NJDEP
<b>Time line</b>	Immediate
<b>Reporting on Progress</b>	
<b>Action progress status</b>	New initiative

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Wall Township</i>
<b>Community action number</b>	<i>Wall - 4- Wreck Ponh Floohing</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Floohing in the low-lying areas surrounhing Wreck Ponh</i>
<b>Risk finding</b>	<i>Wreck Ponh , located at the north terminus of Sea Girt between the Borough and Spring Lake, was originally open to the Atlantic Ocean, allowing for drainage during periods of peak rainfall. Just after the 1997 beach replenishment project, the east end of the Pond was closed off.As a result, the properties adjacent to the Pond are at a greater risk of flooding.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Infrastructure project</i>
<b>Action type</b>	<i>Reopen the east end of the Pond to allow for flow between the Pond and the Ocean</i>
<b>Action description</b>	<i>Spring Lake has obtained funds to reopen the Pond to allow for flow between the Pond and the Ocean.The Borough of Sea Girt role will be to provide in-kind assistance during the implementation phase of the project.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Reduce flooding in the Old Mill Estates section of the Township, minimizing damage to existing homes.</i>
<b>Cost estimate</b>	<i>\$2,000,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Preventing flooding in the four communities adjacent to the Pond (Spring Lake, Spring Lake Heights, Wall Twp. And the Borough of Sea Girt where property losses in Spring Lake alone have cost in excess of \$20,000,000 in flood claims over the last 10 to 15 years.</i>
<b>Technical</b>	<i>Technically feasible - the plans have been drafted and the project has started.</i>
<b>Political</b>	<i>No apparent issues</i>
<b>Legal</b>	<i>No apparent issues</i>
<b>Environmental</b>	<i>Improve the water quality of the Pond along with reducing flooding of adjacent properties.</i>
<b>Social</b>	<i>Affects the quality of life of residents in the four communities adjacent to the Pond</i>
<b>Administrative capability</b>	<i>Administrative oversight</i>
<b>Local champion</b>	<i>Governing bodies of Sea Girt, Spring Lake, Spring Lake Heights and Wall Twp.</i>
<b>Other community objectives</b>	<i>Mitigate an on-going problem during times of peak rainfall</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Plans to reopen the east end have already been drafted and are being implemented</i>
<b>Responsible party</b>	<i>Township of Wall, with cooperation and support from NJDEP and the Boroughs of Spring Lake, Sea Girt, Spring Lake Heights and the Twp. Of Wall</i>
<b>Potential funding sources</b>	<i>Sources of funding have already been identified and 75% of the funding is approved</i>
<b>Time line</b>	<i>Immediate</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Wall Township</i>
<b>Community action number</b>	5
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Storm surge, flooding, hurricanes, tropical storms, nor'easters, wave action, winter storms
<b>Risk finding</b>	Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	Protect Structures
<b>Action description</b>	Elevation and/or Acquisition of Floodprone Residential Structures, with particular focus on those in our community that are on FEMA's Repetitive Loss List and Severe Repetitive Loss List. New Jersey is committed to continuing the reduction of RL and SRL properties in the State; in turn, they have assigned a high priority to mitigating SRL and RL properties in the State Hazard Mitigation Plan. We are committed to supporting these projects as interested homeowners come forward and will support such homeowners, despite the loss in tax revenue, because we recognize the importance of making our community more disaster-resistant and reducing the financial burden of repetitive flooding in our community.
<b>Existing, future &amp;/or NA</b>	Existing
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Properties on FEMA's RL list have already incurred flood-related damage on two occasions, in which the cost of the repair, on average equaled or exceeded 25% of the market value of the structure at the time of each such flood event. Properties on FEMA's SRL list have already incurred flood related damage (i) For which four or more separate claims payments have been made under flood insurance coverage with the amount of each such claim exceeding \$5,000, and with the cumulative amount of such claims payments exceeding \$20,000; or (ii) For which at least two separate claims payments have been made under such coverage, with the cumulative amount of such claims exceeding the market value of the insured structure. While losses avoided by elevating or acquiring properties on FEMA's RL and SRL lists are unquantifiable until specific interested homeowners come forward, they would meet these criterion by definition, at a minimum.
<b>Cost estimate</b>	Project costs are unquantifiable at this time. They would depend on the particular home(s) in question, and the nature of the project the homeowner is interested in (acquisition, or elevation).
<b>Cost effectiveness (i.e., benefit/cost)</b>	Because our RL and SRL properties have incurred so much damage historically, it is highly probably that mitigating these properties would be cost effective. Specific determinations of cost-effectiveness would be done in the future on a case by case basis as interested homeowners come forward and project details are specified.
<b>Technical</b>	Elevation and acquisition are both technically feasible project types
<b>Political</b>	Our political leadership supports this type of project
<b>Legal</b>	While the municipality does not own the structures in question, we fully support the homeowners in moving forward
<b>Environmental</b>	No environmental impacts are anticipated at this time; this would be confirmed as specific homeowners come forward and their property details are reviewed. It is likely that environmental impacts would be positive, as household hazardous wastes are no longer introduced into floodwaters.
<b>Social</b>	No particular social group in our community is likely to be disproportionately impacted by this project; this would be re-evaluated as particular interested homeowners come forward.
<b>Administrative capability</b>	Our municipality has the administrative capabilities to manage an elevation and/or acquisition project
<b>Local champion</b>	affected homeowners, elected officials
<b>Other community objectives</b>	Improve and protect lifestyles of residents; reduction of costly property damage; resiliency; floodplain management; capital improvements
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	Homeowners; Mayor; Council; Administrator; Engineer; local ordinance; Hazard Mitigation Plan
<b>Responsible party</b>	Construction Official
<b>Potential funding sources</b>	FEMA hazard mitigation grant funding streams (i.e., HMGP, FMA, etc)
<b>Time line</b>	This is projected to be an ongoing type of activity, with our municipality supporting interested parties as they come forward.
<b>Reporting on Progress</b>	
<b>Action progress status</b>	New action

<b>Action Worksheet</b>	
Your plan name	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Borough of West Long Branch</i>
Community action number	<i>1</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm</i>
Risk finding	<i>Sedimentation and debris accumulation along Turtle Mill Brook impede stormwater and result in flooding. West Long Branch is not on the immediate coast but is subject to storm surge flooding via Turtle Mill Brook, a tributary to the Shrewsbury River. While a large portion of the northern area of the Borough lies within mapped storm surge hazard areas, flooding during Hurricane Sandy remained largely constrained to the areas immediately adjacent to the Turtle Mill Brook. Some development was impacted. Joline Avenue was flooded in the vicinity of Victor and Oceanport Avenues.</i>
<b>Describing the Action</b>	
Action category	<i>Structural</i>
Action type	<i>Drainage remediation and stream cleaning</i>
Action description	<i>Drainage remediation project servicing Turtle Mill Floodway as well as stream cleaning</i>
Existing, future &/or NA	<i>Existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Debris and sediment accumulation along Turtle Mill Brook impede stormwater flow resulting in flooding. This flooding impacted some development and caused damage to infrastructure. If this problem is not fixed the sediment and debris will only continue to build up in the Turtle Mill Floodway. This project will help to avoid around \$100,000 to \$250,000 per year in damages</i>
Cost estimate	<i>\$1,000,000 (useful life of about 15 years; annual cost of about \$66,667 per year)</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits on the order of \$100,000 to \$250,000 per year and costs of \$66,667 per year.</i>
Technical	<i>This mitigation is technically feasible</i>
Political	<i>This project was advised by council and the mayor</i>
Legal	<i>The community does have the legal authority to implement this project</i>
Environmental	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
Social	<i>There are no social impacts of this action</i>
Administrative capability	<i>The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the engineering and construction</i>
Local champion	<i>Council and the mayor</i>
Other community objectives	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Mitigation activities will be implemented according to all governing regulatory documents, additionally current code requires substantially damaged to elevate home</i>
Responsible party	<i>Borough Engineer</i>
Potential funding sources	<i>Borough Funding, FEMA grant funding</i>
Time line	<i>Dependent upon municipality securing residential funding and code compliance, a start date has not been identified</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Carried forward</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Borough of West Long Branch</i>
<b>Community action number</b>	2
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood, Wind, Nor'easter, Hurricane &amp; Tropical Storm</i>
<b>Risk finding</b>	<i>Certain areas of flooding in West Long Branch Borough have been identified by the Borough a result of drainage issues on a multi-jurisdictional level (West Long Branch, Long Branch, Monmouth County, and Monmouth University).</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural</i>
<b>Action type</b>	<i>Drainage remediation</i>
<b>Action description</b>	<i>Drainage remediation project servicing West Long Branch, Long Branch, Monmouth County property, and Monmouth University property</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Existing drainage system needs to be increased to accommodate storm water, current system overflows and creates flooding in and around homes, roadways, and parts of Monmouth University. This project will help to avoid around \$250,000 to \$500,000 per year in damages</i>
<b>Cost estimate</b>	<i>\$2,500,000 (based on a useful life of about 20 years, annual cost = \$125,000 per year)</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with annual benefits of around \$250,000 to \$500,000 per year and annual costs of about \$125,000.</i>
<b>Technical</b>	<i>This mitigation is technically feasible</i>
<b>Political</b>	<i>This project was advised by council and the mayor</i>
<b>Legal</b>	<i>The community does have the legal authority to implement this project</i>
<b>Environmental</b>	<i>There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations</i>
<b>Social</b>	<i>There are no social impacts of this action</i>
<b>Administrative capability</b>	<i>The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the engineering and construction</i>
<b>Local champion</b>	<i>Council and the mayor</i>
<b>Other community objectives</b>	<i>Capital Improvements</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Mitigation activities will be implemented according to all governing regulatory documents, additionally current code requires substantially damaged to elevate home</i>
<b>Responsible party</b>	<i>Borough Engineer</i>
<b>Potential funding sources</b>	<i>Borough Funding, FEMA grant funding</i>
<b>Time line</b>	<i>Dependent upon municipality securing residential funding and code compliance, a start date has not been identified</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward</i>

## Action Worksheet

<b>Your plan name</b>	<i>Monmouth County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>West Long Branch</i>
<b>Community action number</b>	<b>3</b>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	Storm surge, flooding, hurricanes, tropical storms, nor'easters, wave action, winter storms
<b>Risk finding</b>	Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.
<b>Describing the Action</b>	
<b>Action category</b>	Structure and Infrastructure Projects
<b>Action type</b>	Protect Structures
<b>Action description</b>	Elevation and/or Acquisition of Floodprone Residential Structures, with particular focus on those in our community that are on FEMA's Repetitive Loss List and Severe Repetitive Loss List. New Jersey is committed to continuing the reduction of RL and SRL properties in the State; in turn, they have assigned a high priority to mitigating SRL and RL properties in the State Hazard Mitigation Plan. We are committed to supporting these projects as interested homeowners come forward and will support such homeowners despite the loss in tax revenue, because we recognize the importance of making our community more disaster-resistant and reducing the financial burden of repetitive flooding in our community.
<b>Existing, future &amp;/or NA</b>	Existing
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	Properties on FEMA's RL list have already incurred flood-related damage on two occasions, in which the cost of the repair, on average, equaled or exceeded 25% of the market value of the structure at the time of each such flood event. Properties on FEMA's SRL list have already incurred flood related damage (i) For which four or more separate claims payments have been made under flood insurance coverage with the amount of each such claim exceeding \$5,000, and with the cumulative amount of such claims payments exceeding \$20,000; or (ii) For which at least two separate claims payments have been made under such coverage with the cumulative amount of such claims exceeding the market value of the insured structure. While losses avoided by elevating or acquiring properties on FEMA's RL and SRL lists are unquantifiable until specific interested homeowners come forward, they would meet these criterion by definition, at a minimum.
<b>Cost estimate</b>	Project costs are unquantifiable at this time. They would depend on the particular home(s) in question, and the nature of the project the homeowner is interested in (acquisition, or elevation).
<b>Cost effectiveness (i.e., benefit/cost)</b>	Because our RL and SRL properties have incurred so much damage historically, it is highly probably that mitigating these properties would be cost effective. Specific determinations of cost-effectiveness would be done in the future on a case by case basis as interested homeowners come forward and project details are specified.
<b>Technical</b>	Elevation and acquisition are both technically feasible project types
<b>Political</b>	Our political leadership supports this type of project
<b>Legal</b>	While the municipality does not own the structures in question, we fully support the homeowners in moving forward
<b>Environmental</b>	No environmental impacts are anticipated at this time; this would be confirmed as specific homeowners come forward and their property details are reviewed. It is likely that environmental impacts would be positive, as household hazardous wastes are no longer introduced into floodwaters.
<b>Social</b>	No particular social group in our community is likely to be disproportionately impacted by this project; this would be re-evaluated as particular interested homeowners come forward.
<b>Administrative capability</b>	Our municipality has the administrative capabilities to manage an elevation and/or acquisition project
<b>Local champion</b>	affected homeowners, elected officials
<b>Other community objectives</b>	Improve and protect lifestyles of residents; reduction of costly property damage; resiliency; floodplain management; capital improvements
<b>Implementing the Action</b>	
<b>Priority</b>	High
<b>Local planning mechanism</b>	Homeowners; Mayor; Council; Administrator; Engineer; local ordinance; Hazard Mitigation Plan
<b>Responsible party</b>	Mayor and Council
<b>Potential funding sources</b>	FEMA hazard mitigation grant funding streams (i.e., HMGP, FMA, etc)
<b>Time line</b>	This is projected to be an ongoing type of activity, with our municipality supporting interested parties as they come forward.
<b>Reporting on Progress</b>	
<b>Action progress status</b>	New action

**APPENDIX 2.1 – HAZARD DESCRIPTIONS**

## APPENDIX 2.1 – HAZARD DESCRIPTIONS

Descriptions of the Full Range of Initially Considered Hazards	
Hazard	Description
<b>ATMOSPHERIC</b>	
<b>Avalanche</b>	A rapid fall or slide of a large mass of snow down a mountainside.
<b>Extreme Temperatures</b>	Extreme heat and extreme cold constitute different conditions in different parts of the country. Extreme cold can range from near freezing temperatures in the southern United States to temperatures well below zero in the northern states. Similarly, extreme heat is typically recognized as the condition where temperatures consistently stay ten degrees or more above a region's average high temperature for an extended period. Fatalities can result from extreme temperatures, as they can push the human body beyond its limits (hyperthermia and hypothermia).
<b>Extreme Wind</b>	Wind is air that is in constant motion relative to the surface of the earth. Extreme wind events can occur suddenly without warning. They can occur at any time of the day or night, in any part of the country. Extreme winds pose a threat to lives, property, and vital utilities primarily due to the effects of flying debris and can down trees and power lines. Extreme winds are most commonly the result of hurricanes, tropical storms, nor'easters, severe thunderstorms and tornadoes, but can also occur in their absence as mere "windstorms." One type of windstorm, the downburst, can cause damage equivalent to a strong tornado.
<b>Hailstorm</b>	Any storm that produces hailstones that fall to the ground; usually used when the amount or size of the hail is considered significant. Hail is formed when updrafts in thunderstorms carry raindrops in to parts of the atmosphere where the temperatures are below freezing.
<b>Hurricane and Tropical Storm</b>	Hurricanes and tropical storms are classified as cyclones and defined as any closed circulation developing around a low-pressure center in which the winds rotate counter-clockwise in the Northern Hemisphere (or clockwise in the Southern Hemisphere) and with a diameter averaging 10 to 30 miles across. When maximum sustained winds reach or exceed 39 miles per hour, the system is designated a tropical storm, given a name, and is closely monitored by the National Hurricane Center. When sustained winds reach or exceed 74 miles per hour the storm is deemed a hurricane. The primary damaging forces associated with these storms are high-level sustained winds, heavy precipitation and tornadoes. Coastal areas are also vulnerable to the additional forces of storm surge, wind-driven waves and tidal flooding which can be more destructive than cyclone wind. The majority of hurricanes and tropical storms form in the Atlantic Ocean, Caribbean Sea and Gulf of Mexico during the official Atlantic hurricane season, which extends from June through November.
<b>Lightning</b>	Lightning is a discharge of electrical energy resulting from the buildup of positive and negative charges within a thunderstorm, creating a "bolt" when the buildup of charges becomes strong enough. This flash of light usually occurs within the clouds or between the clouds and the ground. A bolt of lightning can reach temperatures approaching 50,000 degrees Fahrenheit. Lightning rapidly heats the sky as it flashes, but the surrounding air cools following the bolt. This rapid heating and cooling of the surrounding air causes thunder. On average, 80 people are killed each year by lightning strikes in the United States.
<b>Nor'easter</b>	Similar to hurricanes, nor'easters are ocean storms capable of causing substantial damage to coastal areas in the Eastern United States due to their associated strong winds and heavy surf. Nor'easters are named for the winds that blow in from the northeast and drive the storm up the East Coast along the Gulf Stream, a band of warm water that lies off the Atlantic coast. They are caused by the interaction of the jet stream with horizontal temperature gradients and generally occur during the fall and winter months when moisture and cold air are plentiful. Nor'easters are known for dumping heavy amounts of rain and snow, producing hurricane-force winds, and creating high surf that causes severe beach erosion and coastal flooding.
<b>Tornado</b>	A tornado is a violently rotating column of air that has contact with the ground and is often visible as a funnel cloud. Its vortex rotates cyclonically with wind speeds ranging from as low as 40 mph to as high as 300 mph. Tornadoes are most often generated by thunderstorm activity when cool, dry air intersects and overrides a layer of warm, moist air forcing the warm air to rise rapidly. The destruction caused by tornadoes ranges from light to catastrophic depending on the intensity, size and duration of the storm.
<b>Winter Storm</b>	Winter storms may include snow, sleet, freezing rain, or a mix of these wintry forms of precipitation. Blizzards, the most dangerous of all winter storms, combine low temperatures, heavy snowfall, and winds of at least 35 miles per hour, reducing visibility to only a few yards. Ice storms occur when moisture falls and freezes immediately upon impact on trees, powerlines, communication towers, structures, roads and other hard surfaces. Winter storms and ice storms

## APPENDIX 2.1 – HAZARD DESCRIPTIONS

	can down trees, cause widespread power outages, damage property, and cause fatalities and injuries to human life.
<b>HYDROLOGIC</b>	
<b>Coastal Erosion</b>	Landward displacement of a shoreline caused by the forces of waves and currents. Coastal erosion is measured as the rate of change in the position or horizontal displacement of a shoreline over a period of time. It is generally associated with episodic events such as hurricanes and tropical storms, nor'easters, storm surge and coastal flooding but may also be caused by human activities that alter sediment transport. Construction of shoreline protection structures can mitigate the hazard, but may also exacerbate it under some circumstances.
<b>Dam Failure</b>	Dam failure is the collapse, breach, or other failure of a dam structure resulting in downstream flooding. In the event of a dam failure, the energy of the water stored behind even a small dam is capable of causing loss of life and severe property damage if development exists downstream of the dam. Dam failure can result from natural events, human-induced events, or a combination of the two. The most common cause of dam failure is prolonged rainfall that produces flooding. Failures due to other natural events such as hurricanes, earthquakes or landslides are significant because there is generally little or no advance warning.
<b>Drought</b>	A prolonged period of less than normal precipitation such that the lack of water causes a serious hydrologic imbalance. Common effects of drought include crop failure, water supply shortages, and fish and wildlife mortality. High temperatures, high winds, and low humidity can worsen drought conditions and also make areas more susceptible to wildfire. Human demands and actions have the ability to hasten or mitigate drought-related impacts on local communities.
<b>Flood</b>	The accumulation of water within a water body which results in the overflow of excess water onto adjacent lands, usually floodplains. The floodplain is the land adjoining the channel of a river, stream ocean, lake or other watercourse or water body that is susceptible to flooding. Most floods fall into the following three categories: riverine flooding, coastal flooding, or shallow flooding (where shallow flooding refers to sheet flow, ponding and urban drainage).
<b>Storm Surge</b>	A storm surge is a large dome of water often 50 to 100 miles wide and rising anywhere from four to five feet in a Category 1 hurricane up to more than 30 feet in a Category 5 storm. Storm surge heights and associated waves are also dependent upon the shape of the offshore continental shelf (narrow or wide) and the depth of the ocean bottom (bathymetry). A narrow shelf, or one that drops steeply from the shoreline and subsequently produces deep water close to the shoreline, tends to produce a lower surge but higher and more powerful storm waves. Storm surge arrives ahead of a storm's actual landfall and the more intense the hurricane is, the sooner the surge arrives. Storm surge can be devastating to coastal regions, causing severe beach erosion and property damage along the immediate coast. Further, water rise caused by storm surge can be very rapid, posing a serious threat to those who have not yet evacuated flood-prone areas. Storm surge can be exacerbated if occurring at or near high tide.
<b>Wave Action</b>	The characteristics and effects of waves that move inland from an ocean, bay, or other large body of water. Large, fast moving waves can cause extreme erosion and scour and their impact on buildings can cause severe damage. During hurricanes and other high-wind events, storm surge and wind increase the destructiveness of waves and cause them to reach higher elevations and penetrate further inland.
<b>GEOLOGIC</b>	
<b>Earthquake</b>	A sudden, rapid shaking of the Earth caused by the breaking and shifting of rock beneath the surface. This movement forces the gradual building and accumulation of energy. Eventually, strain becomes so great that the energy is abruptly released, causing the shaking at the earth's surface which we know as an earthquake. Roughly 90 percent of all earthquakes occur at the boundaries where plates meet, although it is possible for earthquakes to occur entirely within plates. Earthquakes can affect hundreds of thousands of square miles; cause damage to property measured in the tens of billions of dollars; result in loss of life and injury to hundreds of thousands of persons; and disrupt the social and economic functioning of the affected area.
<b>Expansive Soils</b>	Soils that will exhibit some degree of volume change with variations in moisture conditions. The most important properties affecting degree of volume change in a soil are clay mineralogy and the aqueous environment. Expansive soils will exhibit expansion caused by the intake of water and, conversely, will exhibit contraction when moisture is removed by drying. Generally speaking, they often appear sticky when wet, and are characterized by surface cracks when dry. Expansive soils become a problem when structures are built upon them without taking proper design precautions into account with regard to soil type. Cracking in walls and floors can be minor, or can be severe enough for the home to be structurally unsafe.

## APPENDIX 2.1 – HAZARD DESCRIPTIONS

<b>Landslide</b>	The movement of a mass of rock, debris, or earth down a slope when the force of gravity pulling down the slope exceeds the strength of the earth materials that comprise to hold it in place. Slopes greater than 10 degrees are more likely to slide, as are slopes where the height from the top of the slope to its toe is greater than 40 feet. Slopes are also more likely to fail if vegetative cover is low and/or soil water content is high.
<b>Land Subsidence</b>	The gradual settling or sudden sinking of the Earth’s surface due to the subsurface movement of earth materials. Causes of land subsidence include groundwater pumpage, aquifer system compaction, drainage of organic soils, underground mining, hydrocompaction, natural compaction, sinkholes, and thawing permafrost.
<b>Tsunami</b>	A series of waves generated by an undersea disturbance such as an earthquake. The speed of a tsunami traveling away from its source can range from up to 500 miles per hour in deep water to approximately 20 to 30 miles per hour in shallower areas near coastlines. Tsunamis differ from regular ocean waves in that their currents travel from the water surface all the way down to the sea floor. Wave amplitudes in deep water are typically less than one meter; they are often barely detectable to the human eye. However, as they approach shore, they slow in shallower water, basically causing the waves from behind to effectively “pile up”, and wave heights to increase dramatically. As opposed to typical waves which crash at the shoreline, tsunamis bring with them a continuously flowing ‘wall of water’ with the potential to cause devastating damage in coastal areas located immediately along the shore.
<b>Volcano</b>	A mountain that opens downward to a reservoir of molten rock below the surface of the earth. While most mountains are created by forces pushing up the earth from below, volcanoes are different in that they are built up over time by an accumulation of their own eruptive products: lava, ash flows, and airborne ash and dust. Volcanoes erupt when pressure from gases and the molten rock beneath becomes strong enough to cause an explosion.
<b>OTHER</b>	
<b>Wildfire</b>	An uncontrolled fire burning in an area of vegetative fuels such as grasslands, brush, or woodlands. Heavier fuels with high continuity, steep slopes, high temperatures, low humidity, low rainfall, and high winds all work to increase risk for people and property located within wildfire hazard areas or along the urban/wildland interface. Wildfires are part of the natural management of forest ecosystems, but most are caused by human factors. Over 80 percent of forest fires are started by negligent human behavior such as smoking in wooded areas or improperly extinguishing campfires. The second most common cause for wildfire is lightning.

**APPENDIX 3A.1 – SEA LEVEL RISE**

# GUIDANCE MEMORANDUM #2



## Climate Change and Sea Level Rise

**The Issue:** Climate change and sea level rise are realities of Monmouth County's future. Long-term data documents a significant increase in average temperature, and a significant rise in sea level that is consistent with observed and predicted global trends. While incremental rises in temperature and sea level over a one-year planning window are virtually undetectable, their cumulative impacts over perhaps several decades are expected to be virtually impossible to ignore.

**Memo Purpose:** Climate change and sea level rise are expected to exhibit their most marked impacts in the long term. However, barely imperceptible annual changes will be cumulative, with markedly different impacts in a 30 year time frame than what is observed today. This longer planning window gives local decision makers time to gradually implement adaption and mitigation strategies. This memorandum has been prepared to provide the Core Planning Group (Monmouth County and its participating jurisdictions) with information regarding climate change, its potential impacts in Monmouth County, particularly with regard to areas that may susceptible to future flooding as a result of a rise in sea level – including key assets that are located in at-risk areas, and potential ways to begin to take action now to mitigate inevitable future impacts, thus enhancing resiliency and sustainability by lessening future economic and environmental impacts.

**State Perspective:** The State of New Jersey presents the following information about climate change and sea level rise on its web site<sup>1</sup>:

### What Does Global Warming Mean to New Jersey?

#### Rising temperatures

Rising ambient temperatures are expected to have direct and indirect impacts on human health and the environment in New Jersey. Direct human health impacts are likely to include increased heat stress, especially for vulnerable urban populations, such as the elderly and urban poor. Climate models predict an increase in the number of days per year with temperatures above 90° F in the New York City metro area, with a potentially significant impact on human health due to heat stress.

Natural ecosystems, water supply and agriculture are also likely to be affected by warmer temperatures and associated changes in the water cycle. Climate-related habitat loss could lead to extinction of some threatened species. Warmer temperatures are expected to lead to more intense rain events, since warm air holds more water vapor. However, warmer temperatures also are likely to lead to greater evaporation and transpiration of moisture, which could cause drier conditions in soils.

<sup>1</sup> <http://nj.gov/globalwarming/about/>



Recent modeling work predicts that temperatures in the Northeast U.S. are likely to rise 2.5 to 4 degrees F in the winter and 1 to 3 degrees F in the summer over the next several decades. These changes will result from GHG emissions that have already occurred, because it will take the climate many years to respond to changes in levels of GHGs in the atmosphere that have already been reached. However, over the longer term, further changes to the climate depend strongly on emissions choices made now and through the end of the century.

Without significant long-term reductions in GHG emissions, the model predicts that the Northeast can expect many more extremely hot days and more events of extreme rainfall, especially in winter. Although there is likely to be more precipitation overall, the likelihood of summer droughts will increase, because the higher temperatures will dry soils faster; one- to three-month droughts could happen almost every year by the end of the century.

However, the model predicts that if measures are instituted that allow the world to follow a path of economic growth based on less fossil fuel-intensive industry and more use of renewable energy that would cause GHG emissions to peak around mid-century and then decline, many of the projected changes in the Northeast will be much less severe, e.g. the likelihood of short-term droughts will be only slightly higher than today.

### **Rising seas**

Sea level rise due to climate change is of major concern to New Jersey. New Jersey is especially vulnerable to significant impacts due to geologic subsidence, the topography of its coastline, current coastal erosion, and a high density of coastal development.

A sea level rise in line with median projections would threaten the majority of New Jersey's coastline. The effects of sea level rise will be exacerbated in New Jersey since relative sea level rise in New Jersey will be greater than the global average due to coastline subsidence. Recent measurements suggest that the rate of melting of the Greenland ice sheet has increased dramatically. If an increased rate of melting is substantiated by further data, and if the melting continues at this rate or accelerates further, the rate of sea level rise throughout the world will increase significantly. Effects of rising sea level are magnified during storm events. Higher sea levels will increase the severity of storm-related flooding in coastal and bay areas. In addition to significant property losses, sea level rise will adversely impact coastal ecosystems and may threaten coastal fresh water supplies due to salt-water intrusion.

Currently, responses to rising sea levels and increasing erosion along the NJ coast have been the construction of sea walls and bulkheads, raising land elevation with beach nourishment projects, and the building of jetties to capture sand. All of these approaches are expensive, and the costs can be expected to increase as sea level rises further. The additional impact of anticipated more intense storms and floods when coupled with higher sea levels will likely compound the growth in costs.

### **What we know:**

Earth's climate is warming as a result of three main factors: (1) increased emissions of greenhouse gases, (2) burning of fossil fuels, and (3) land use change. This warmer climate, in turn, melts ice sheets, ice caps, and glaciers; and warms ocean waters which expand with the elevated temperature thus increasing overall ocean volumes.

"Global sea-level rise" is the average increase in the level of the world's oceans that occurs due to a variety of factors, the most significant being thermal expansion of the oceans and the addition of water by melting of land-based ice



sheets, ice caps, and glaciers. “Relative sea-level rise” refers to the change in sea level relative to the elevation of the adjacent land, which can also subside or rise due to natural and human-induced factors. Relative sea-level changes include both global sea-level rise and changes in the vertical elevation of the land surface. Global sea level is rising, and there is evidence that the rate is accelerating. In fact, the Intergovernmental Panel on Climate Change (IPCC) projects that the average rate of global sea-level rise during the twenty-first century is very likely to exceed the average rate over the last four decades. In the mid-Atlantic region from New York to North Carolina, tide-gauge observations indicate that relative sea-level rise (the combination of global sea-level rise and land subsidence) rates were higher than the global mean.

**Future Projections:**

Future projections of sea-level rise for the twenty-first century vary widely, ranging from several centimeters to more than a meter. NOAA, in partnership with FEMA, USACE, and several other federal agencies created in 2012 SLR mapping to support stakeholders in New Jersey and New York consider risks from future sea level rise in planning for reconstruction following Hurricane Sandy. This SLR mapping integrated FEMA's best available special flood hazard area (SFHA) with four scenarios of sea level rise (referred to as lowest, intermediate-low, intermediate-high, and highest). These scenarios provide estimates of global sea level rise by the year 2050 and 2100 based on the best available science synthesized by a panel of scientists from multiple federal agencies and academic institutions to provide to the U.S. National Climate Assessment. These four scenarios address different factors known to affect future sea level rise risk, including ocean warming and melting of mountain glaciers and ice sheets.

**Appendix 3a.1** shows areas in each community in Monmouth County that could potentially see increases in the footprint of their SFHAs under moderate and high estimates of sea level rise by 2050 (1.5 feet and 2.0 feet, respectively). These figures also highlight key asset categories for planning purposes and to facilitate the identification of hazard mitigation measures. This mapping allows local planners in each community to visualize areas of potential future impact, and to consider mitigation strategies that may be prudent to protect people, property, and key assets located in these areas.

Results of the GIS analysis indicate that 71 critical facilities are located in the present-day SFHA. However, by 2050, an additional 28 to 33 facilities could be vulnerable to flooding at the 100-year level (28 under the more moderate estimate of rate of sea level rise, and 33 under the high estimate). Furthermore, Countywide, HAZUS-estimated building losses for 100-year riverine flooding for the present-day SFHA are approximately \$154 million; while estimated losses for SFHA 2050 under the highest estimates of sea level rise have been estimated to be approximately \$986 million.

**Impacts:**

Impacts of climate change and sea level rise are likely to be varied and widespread. In the years to come, it is anticipated that Monmouth County will observe drastic changes in storm character, intensity, frequency, and storm tracking. Hurricanes are likely to become more intense with rising sea water temperatures. Coastal erosion rates are likely to increase with rising sea-level, to



levels higher than those rates that have been observed over the last century. Storm effects will be more extensive in the future. The following types of impacts can be anticipated in Monmouth County's future as a result of climate change and sea level rise:

- Inundation of low-lying areas
- Increased frequency and extent of storm-related flooding
- Wetland loss
- Saltwater intrusion into estuaries and freshwater aquifers
- Land loss through submergence and erosion of lands in coastal areas
- Migration of coastal landforms and habitats
- Increased salinity in estuaries and coastal fresh
- Impacts to human populations (property losses, more frequent flood damage, more frequent flooding of roadways and urban centers, risks to people as the population of coastal areas increases)
- More buildings and infrastructure exposed
- Currently exposed buildings and infrastructure could be subject to potentially greater losses as water levels increase, and continued rapid coastal development exacerbates the impacts of sea level rise
- Impacts on gravity flow stormwater systems
- Impacts on non-coastal areas

Impacts of climate change and sea level rise can affect all parts of a community, including: transportation infrastructure (ports, marinas, airports, roads, bridges, railways); public infrastructure (stormwater and wastewater management systems, drinking water supply and distribution systems, power utility systems, communications systems); public facilities (i.e., police, fire, ambulance, hospitals, schools, daycare centers, adult living facilities, historic landmarks, government buildings, libraries, parks, etc.); economic viability of a community – particularly for communities where tourism tends to drive local economies, as is the case in many of Monmouth County's coastal communities. Climate change and sea level rise could lead to a potential loss of assets that support tourism (i.e., beaches themselves as well beach access points, lodging, restaurants, marinas, fishing habitats, ecotourism, etc.).

**Adaptation Strategies:** Types of actions to offset impacts come in four basic categories:

- Protection - structurally defensive measures that provide protection by preventing flooding/inundation (i.e., shoreline armoring, beach re-nourishment, streambank stabilization, dunes, dikes, levees)
- Accommodation - strategies that provide protection via altered design measures to accommodate water (i.e., building elevation, bridge elevation, stormwater improvements, floodproofing)
- Adaptation – modifying design standards, building codes
- Retreat - strategies that provide protection via the removal of existing, at-risk development and possible relocation to other areas that are not flood-prone (i.e., acquisition of vulnerable land for public ownership, transfer of development rights, purchase of development rights, rolling easements, conservation easements, zoning laws, disincentives to



building in hazard areas, incentives to building in low risk areas, designating at-risk land as open space, or requiring critical facilities to be located outside of hazard areas.

While climate change and sea level rise are inevitable realities, there are ways that jurisdictions can plan ahead and take action to mitigate impacts.

- Prepare for more severe storms to be the new norm. Take this into account when implementing local ordinances and zoning changes, as well as when planning for emergency management
- Encourage development away from coastal areas that are at the greatest risk for being impacted by sea level rise due to climate change.
- Encourage the implementation of more natural mitigation techniques along the coast such as dune stabilization, while discouraging the use of, or designing ways to phase out the use of hard structures that ultimately increase beach erosion such as jetties, groins, and seawalls
- Encourage the use of permeable ground cover and stormwater management in planning designs
- Require buildings in floodplains to be on higher foundations (freeboard)
- Recognize increased flooding through 2050 by adopting a 'floodplain planning zone'
- Adopt Coastal A Zone requirements in areas where waves may be 1.5 feet or higher
- Redelineate the landward boundary of Conservation Zone to coincide with the 2050 inundation area and reduce the allowed density (retain current zoning for existing villages)
- Recognize that wetlands will migrate inland, groundwater levels will rise, and saltwater intrusion will increase
- Modify on-site septic requirements to anticipate impaired performance as water table levels rise
- Require stream/tributary buffers or conservation easements
- Require planning for certain roads to anticipate more frequent flooding
- Anticipate that some buildings will need to be relocated, elevated on higher foundations, or abandoned

**Re-evaluation:**

Mitigation strategies regarding development and redevelopment (particularly in the post-disaster scenario) presents an opportunity to rebuild in a stronger, more sustainable, and more resilient manner. Climate change adaptation strategies, particularly with regard to sea level rise, should be re-evaluated on a regular basis over the course of the plan maintenance phase - particularly when a community is devastated by a disaster, as strategies which may not have been economically, politically, or socially feasible in the pre-disaster scenario may have markedly different levels of community support.



# Aberdeen Township

Middlesex County

Keyport Borough

Hazlet Township

Matawan Borough

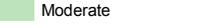
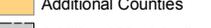
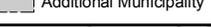
Holmdel Township

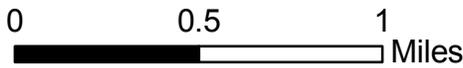
Marlboro Township

## Legend

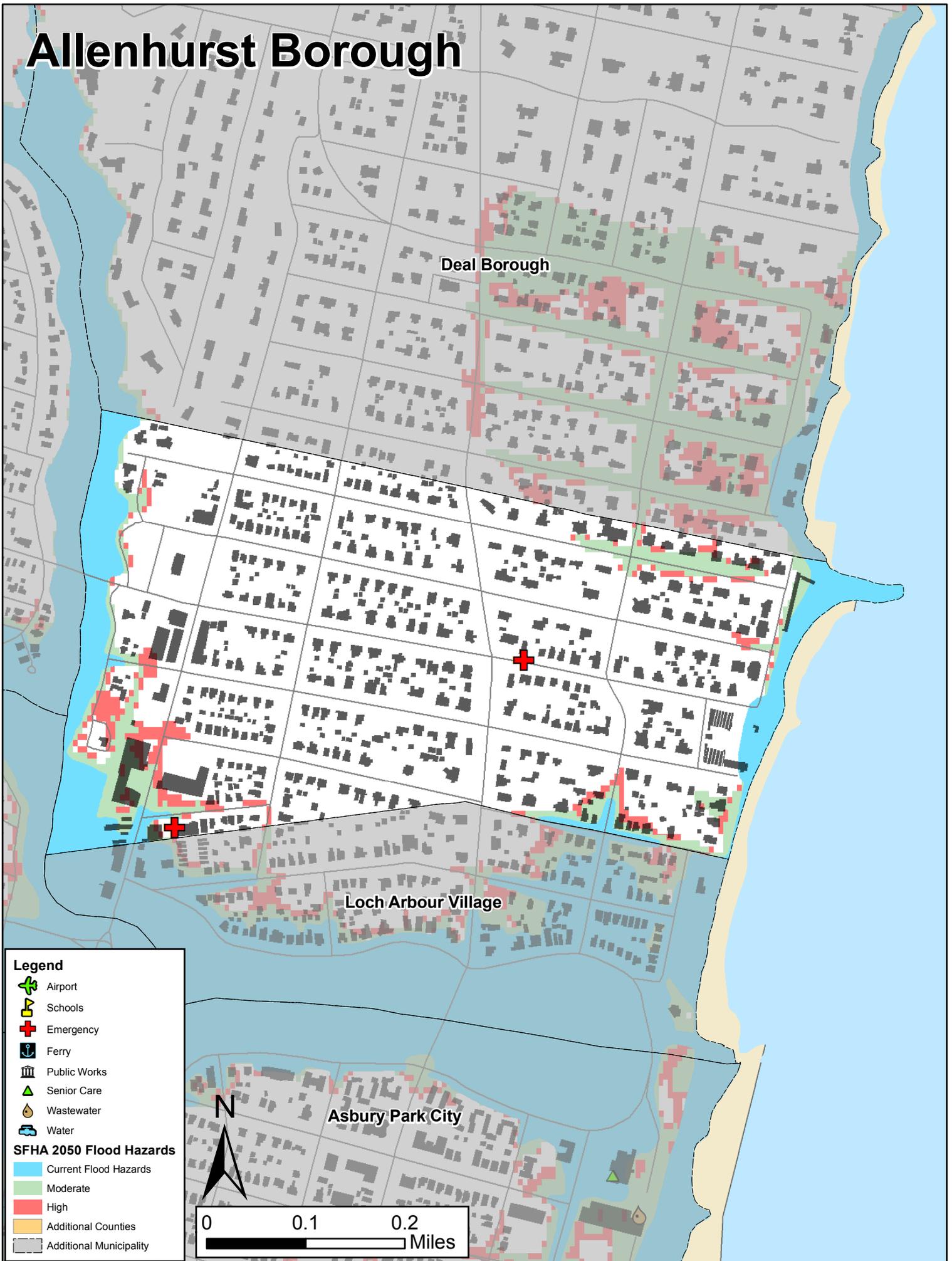
-  Airport
-  Schools
-  Emergency
-  Ferry
-  Public Works
-  Senior Care
-  Wastewater
-  Water

## SFHA 2050 Flood Hazards

-  Current Flood Hazards
-  Moderate
-  High
-  Additional Counties
-  Additional Municipality



# Allenhurst Borough



# Allentown Borough

Mercer County

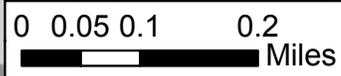
Upper Freehold Township

### Legend

-  Airport
-  Schools
-  Emergency
-  Ferry
-  Public Works
-  Senior Care
-  Wastewater
-  Water

### SFHA 2050 Flood Hazards

-  Current Flood Hazards
-  Moderate
-  High
-  Additional Counties
-  Additional Municipality

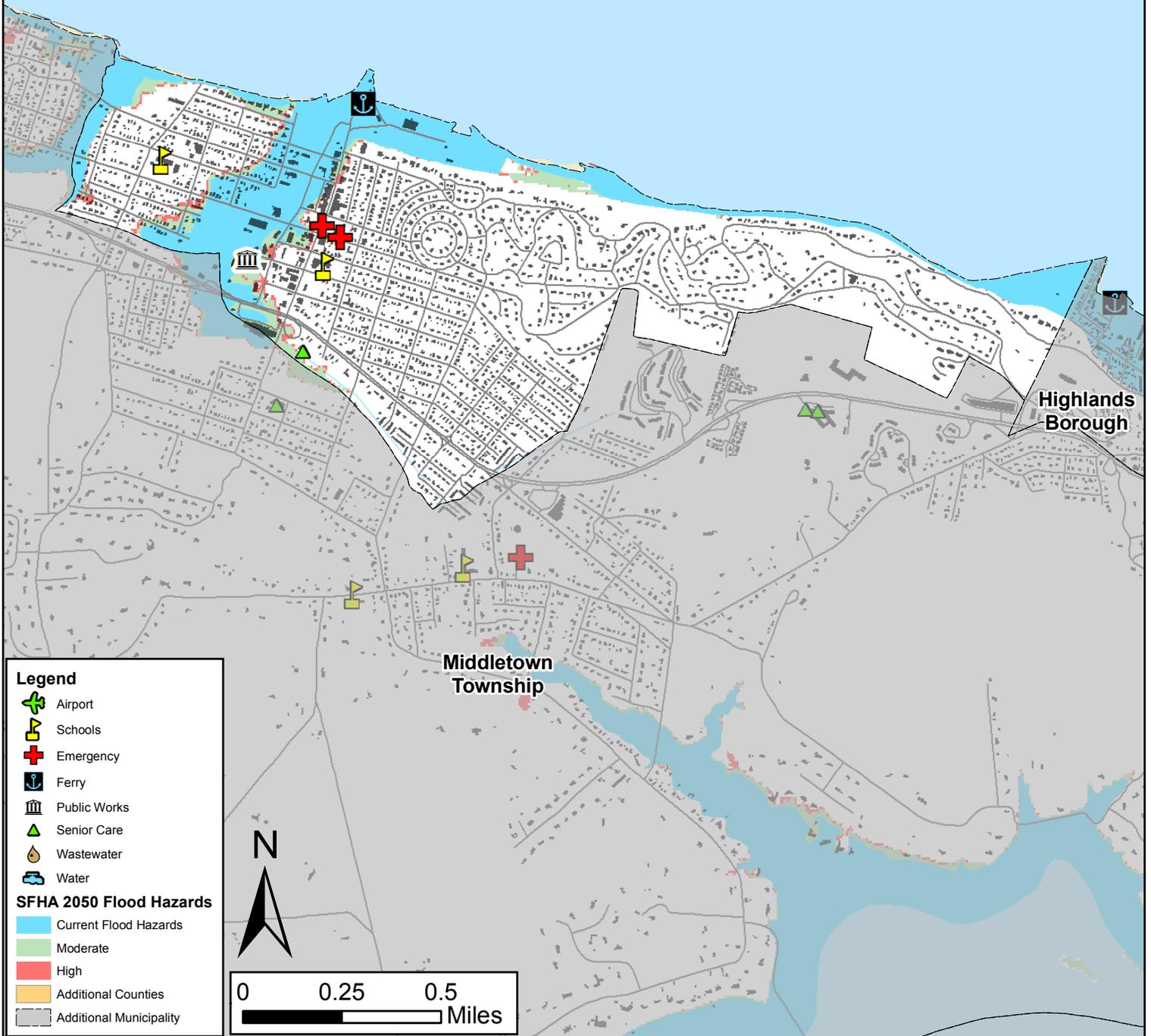


# Asbury Park City

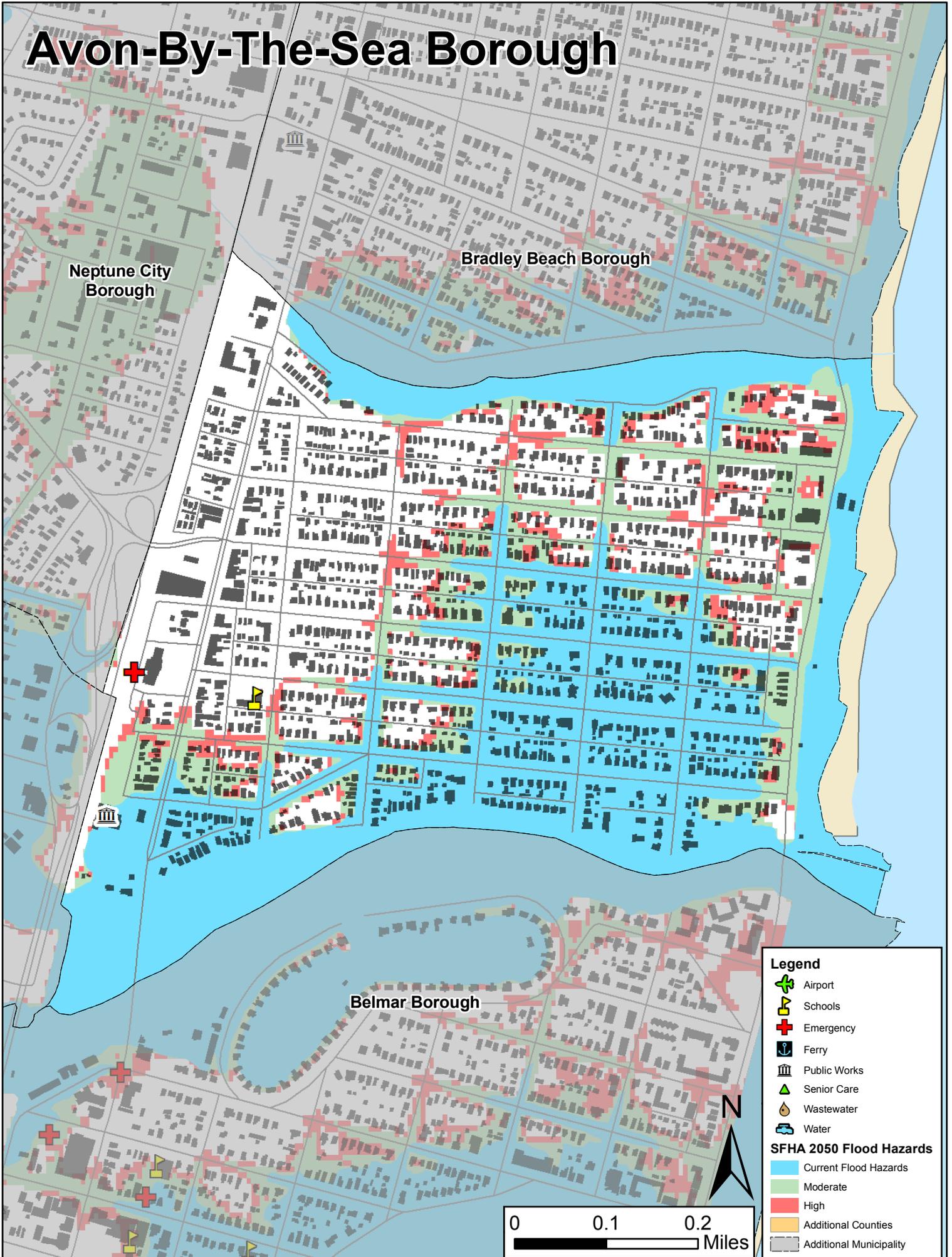


# Atlantic Highlands Borough

Atlantic  
Ocean



# Avon-By-The-Sea Borough



Neptune City  
Borough

Bradley Beach Borough

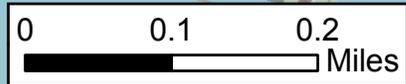
Belmar Borough

**Legend**

- Airport
- Schools
- Emergency
- Ferry
- Public Works
- Senior Care
- Wastewater
- Water

**SFHA 2050 Flood Hazards**

- Current Flood Hazards
- Moderate
- High
- Additional Counties
- Additional Municipality



# Belmar Borough



# Bradley Beach Borough

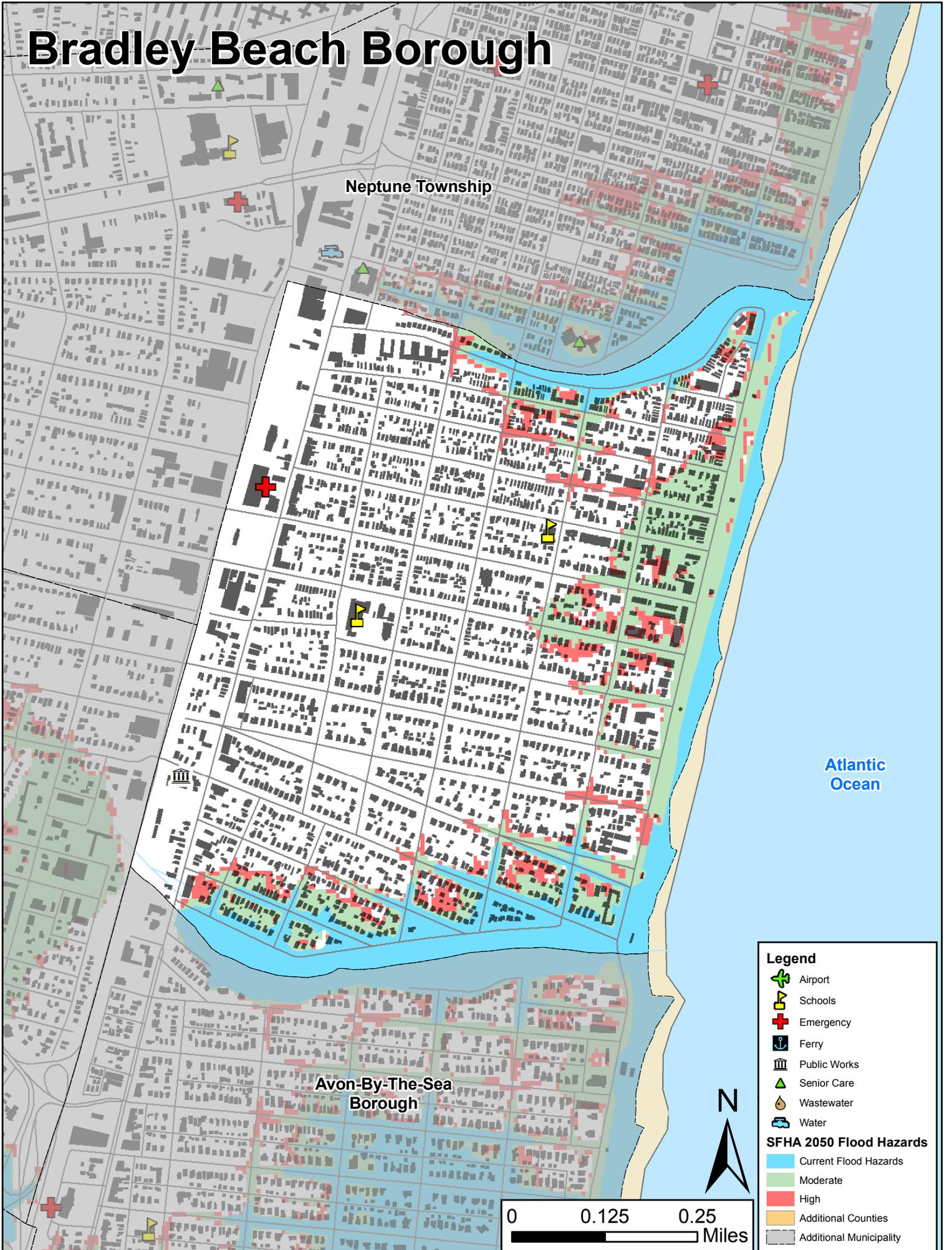
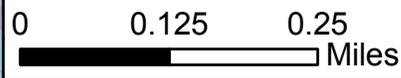
Neptune Township

Avon-By-The-Sea  
Borough

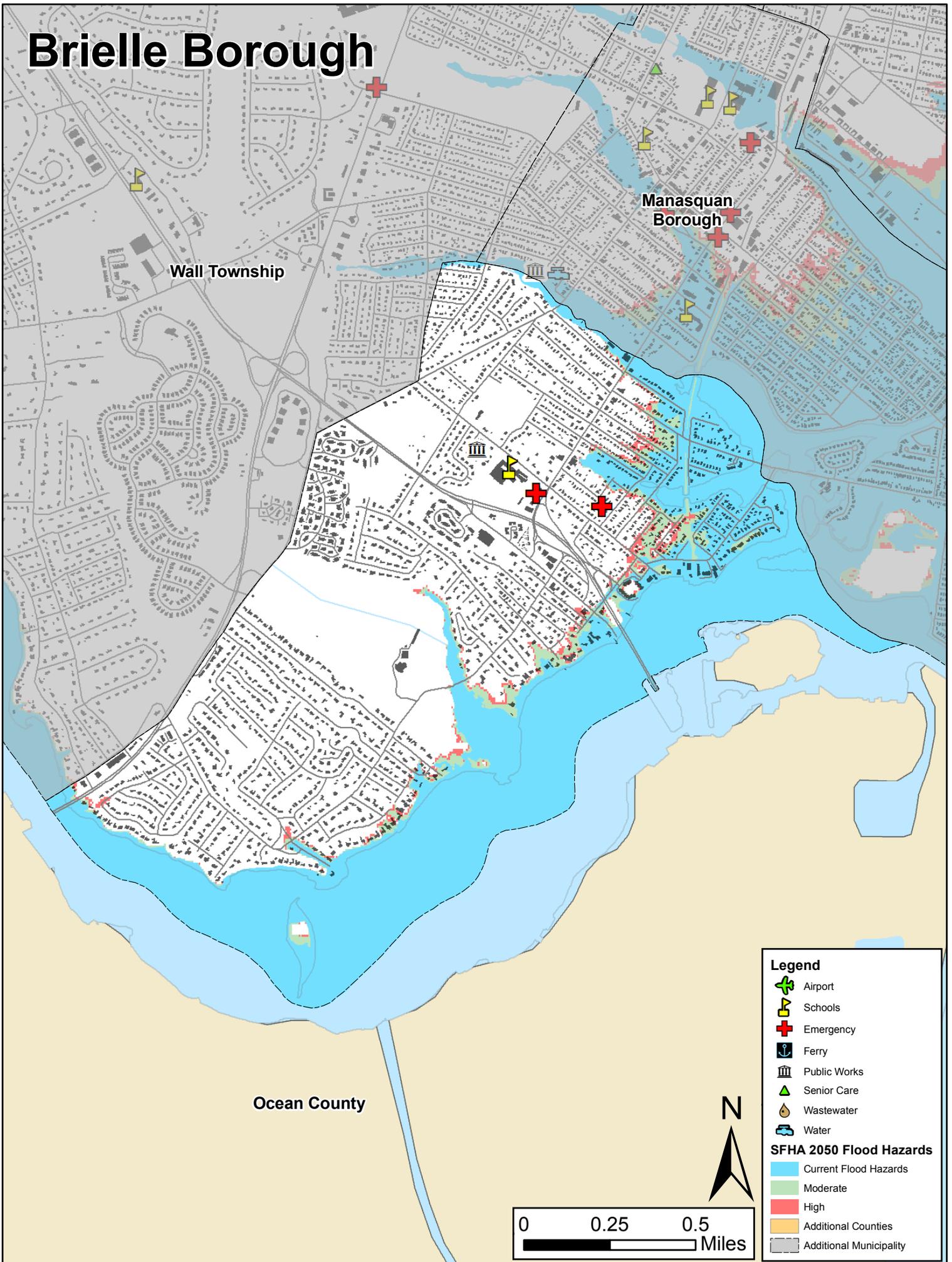
Atlantic  
Ocean

### Legend

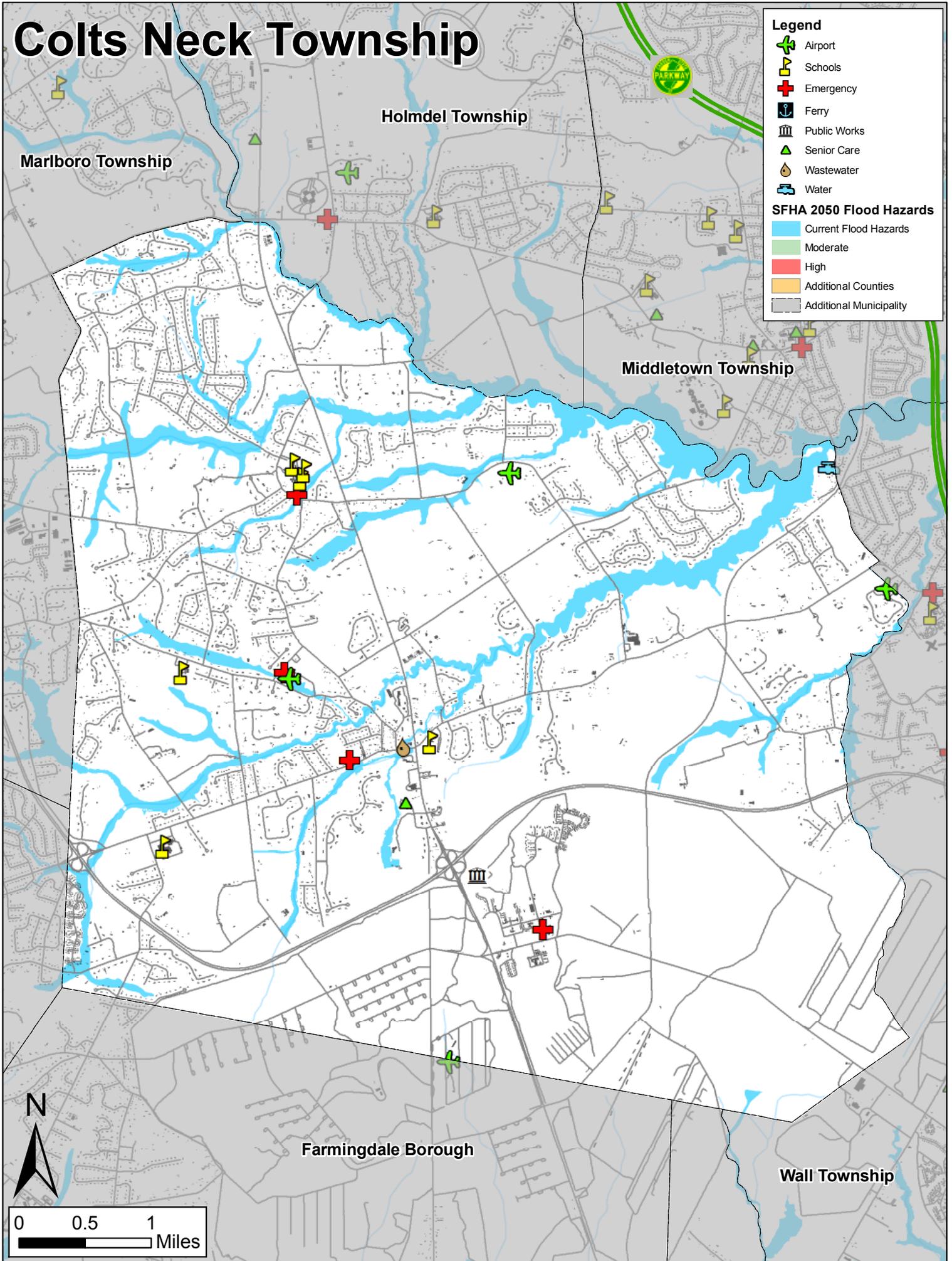
- Airport
  - Schools
  - Emergency
  - Ferry
  - Public Works
  - Senior Care
  - Wastewater
  - Water
- SFHA 2050 Flood Hazards**
- Current Flood Hazards
  - Moderate
  - High
  - Additional Counties
  - Additional Municipality



# Brielle Borough



# Colts Neck Township

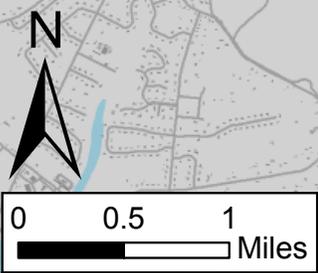


**Legend**

- Airport
- Schools
- Emergency
- Ferry
- Public Works
- Senior Care
- Wastewater
- Water

**SFHA 2050 Flood Hazards**

- Current Flood Hazards
- Moderate
- High
- Additional Counties
- Additional Municipality



# Deal Borough

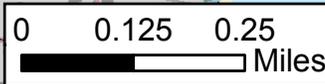


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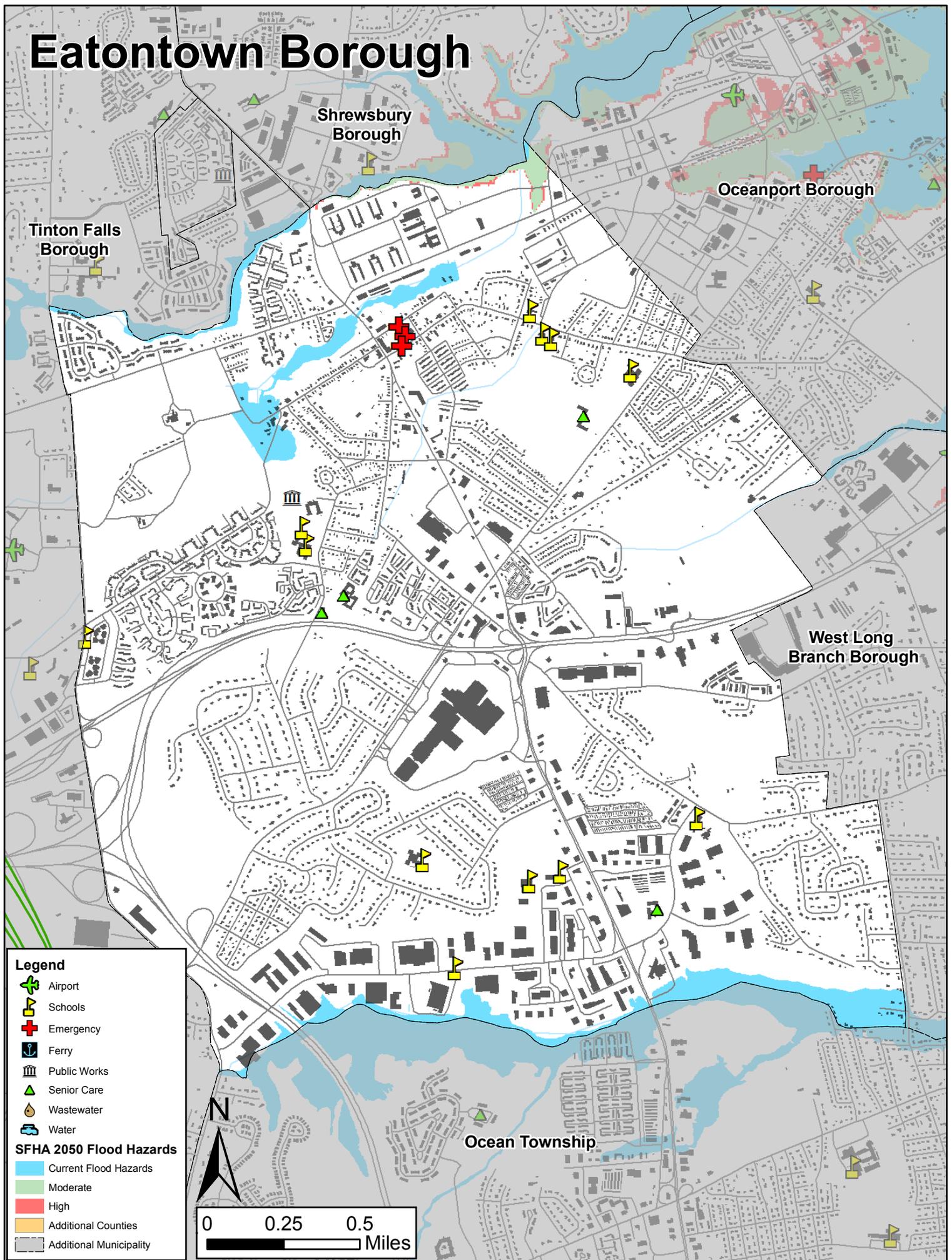
- Airport
- Schools
- Emergency
- Ferry
- Public Works
- Senior Care
- Wastewater
- Water

**SFHA 2050 Flood Hazards**

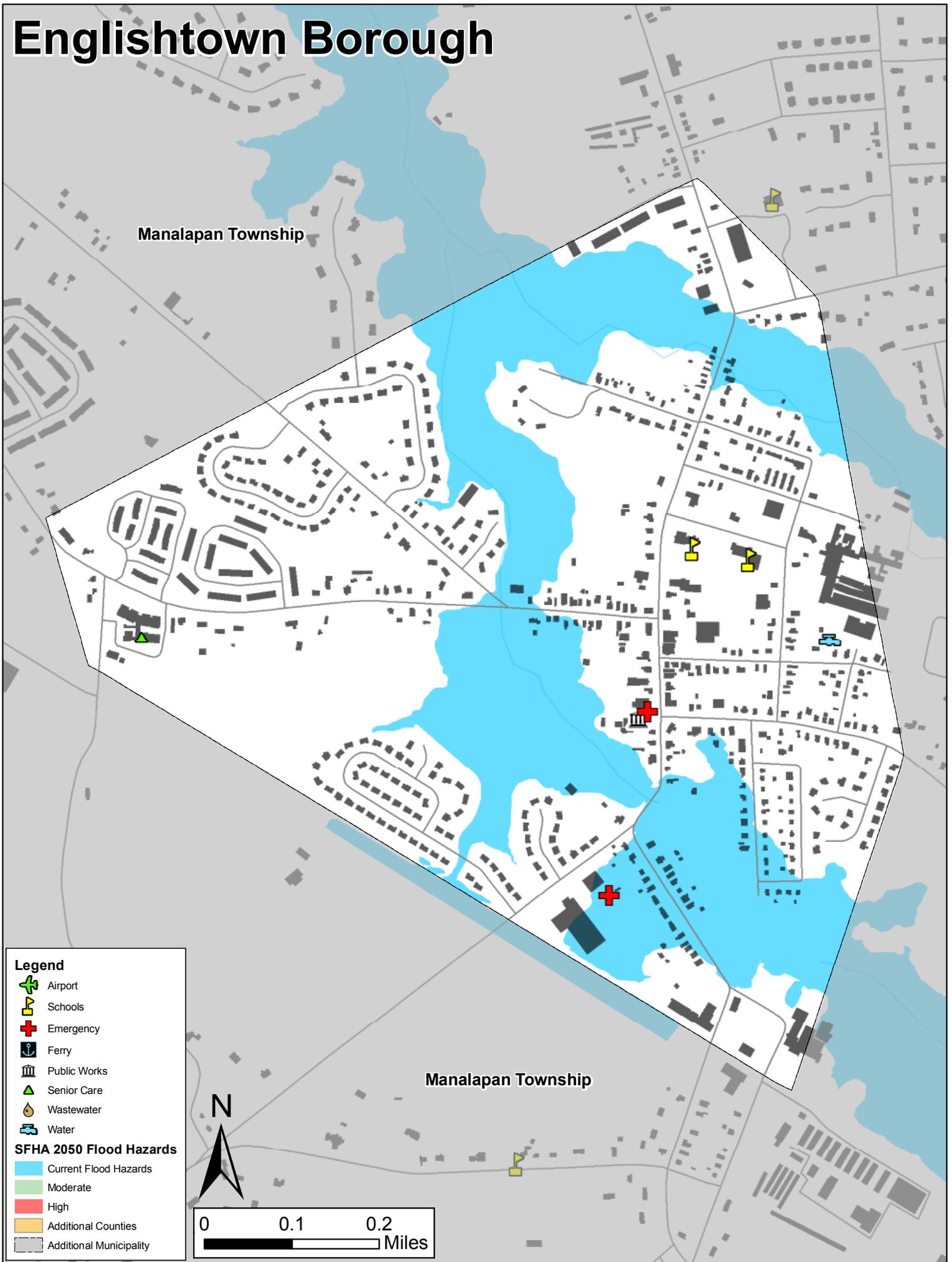
- Current Flood Hazards
- Moderate
- High
- Additional Counties
- Additional Municipality



# Eatontown Borough



# Englishtown Borough

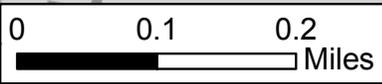


## Legend

- Airport
- Schools
- Emergency
- Ferry
- Public Works
- Senior Care
- Wastewater
- Water

## SFHA 2050 Flood Hazards

- Current Flood Hazards
- Moderate
- High
- Additional Counties
- Additional Municipality



# Fair Haven Borough



# Farmingdale Borough

Howell Township

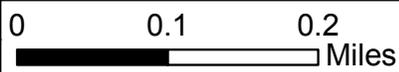
Howell Township

## Legend

-  Airport
-  Schools
-  Emergency
-  Ferry
-  Public Works
-  Senior Care
-  Wastewater
-  Water

## SFHA 2050 Flood Hazards

-  Current Flood Hazards
-  Moderate
-  High
-  Additional Counties
-  Additional Municipality



# Freehold Borough

Freehold Township

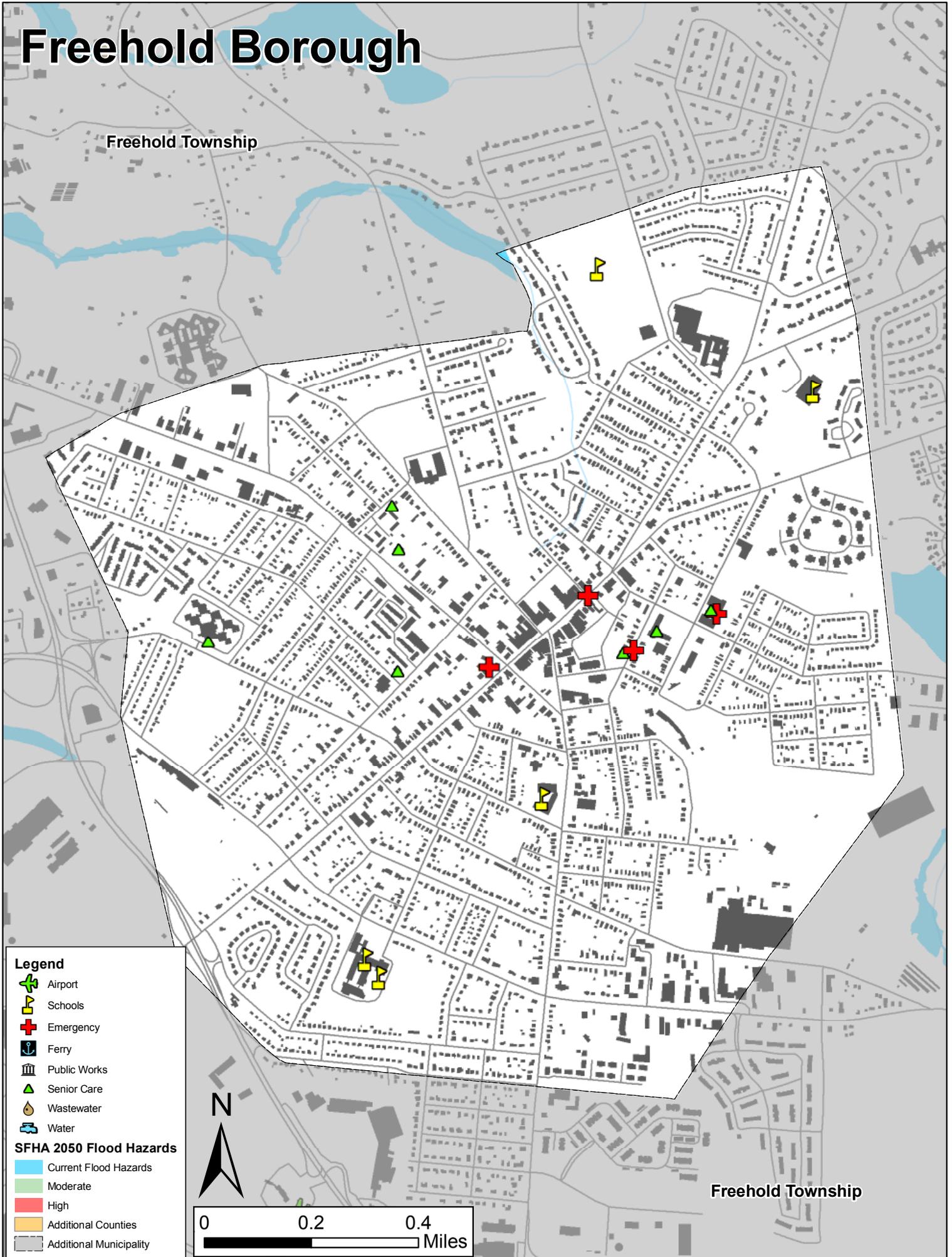
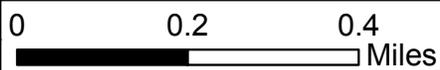
Freehold Township

## Legend

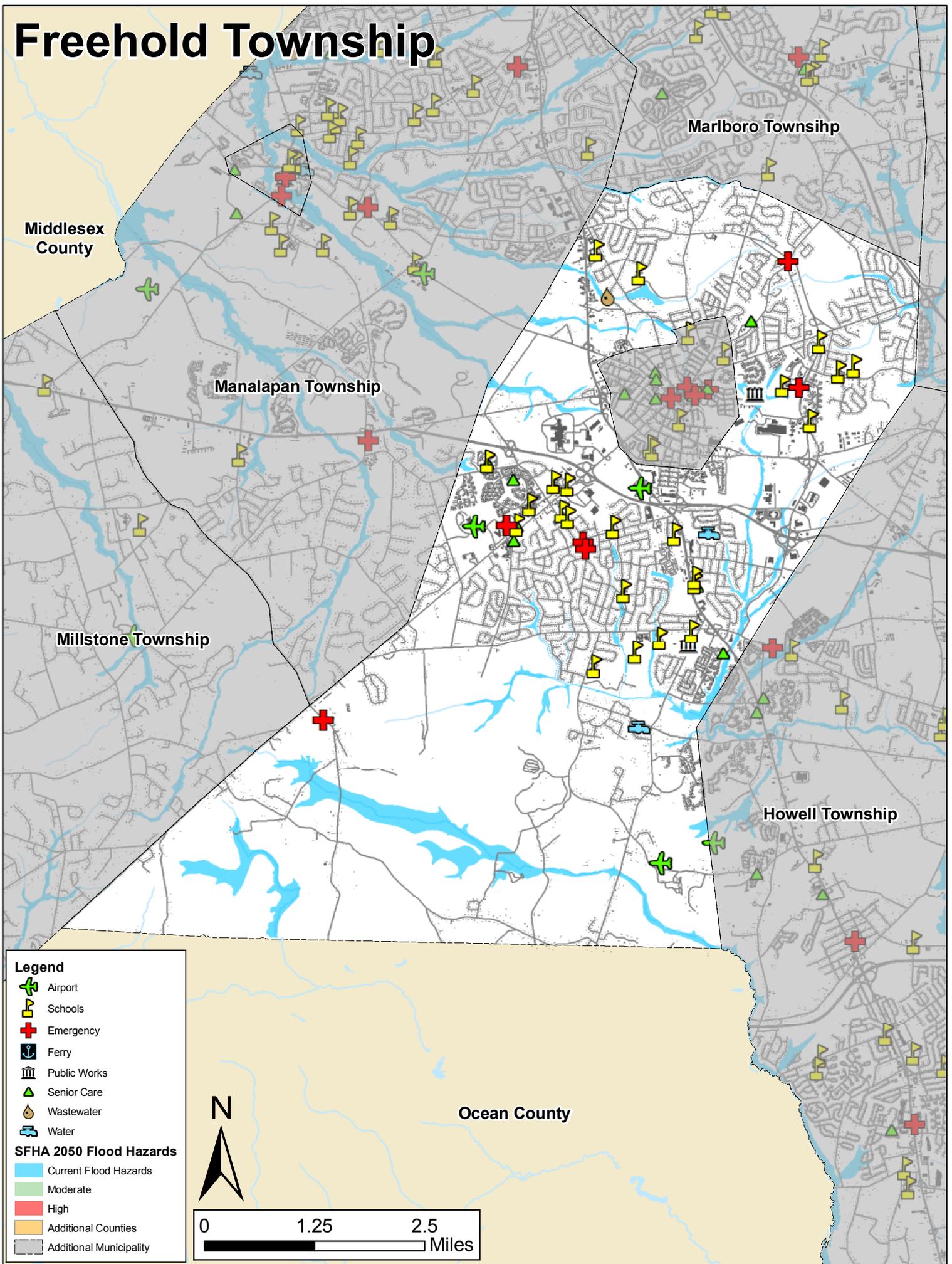
-  Airport
-  Schools
-  Emergency
-  Ferry
-  Public Works
-  Senior Care
-  Wastewater
-  Water

## SFHA 2050 Flood Hazards

-  Current Flood Hazards
-  Moderate
-  High
-  Additional Counties
-  Additional Municipality



# Freehold Township

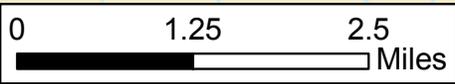


## Legend

- Airport
- Schools
- Emergency
- Ferry
- Public Works
- Senior Care
- Wastewater
- Water

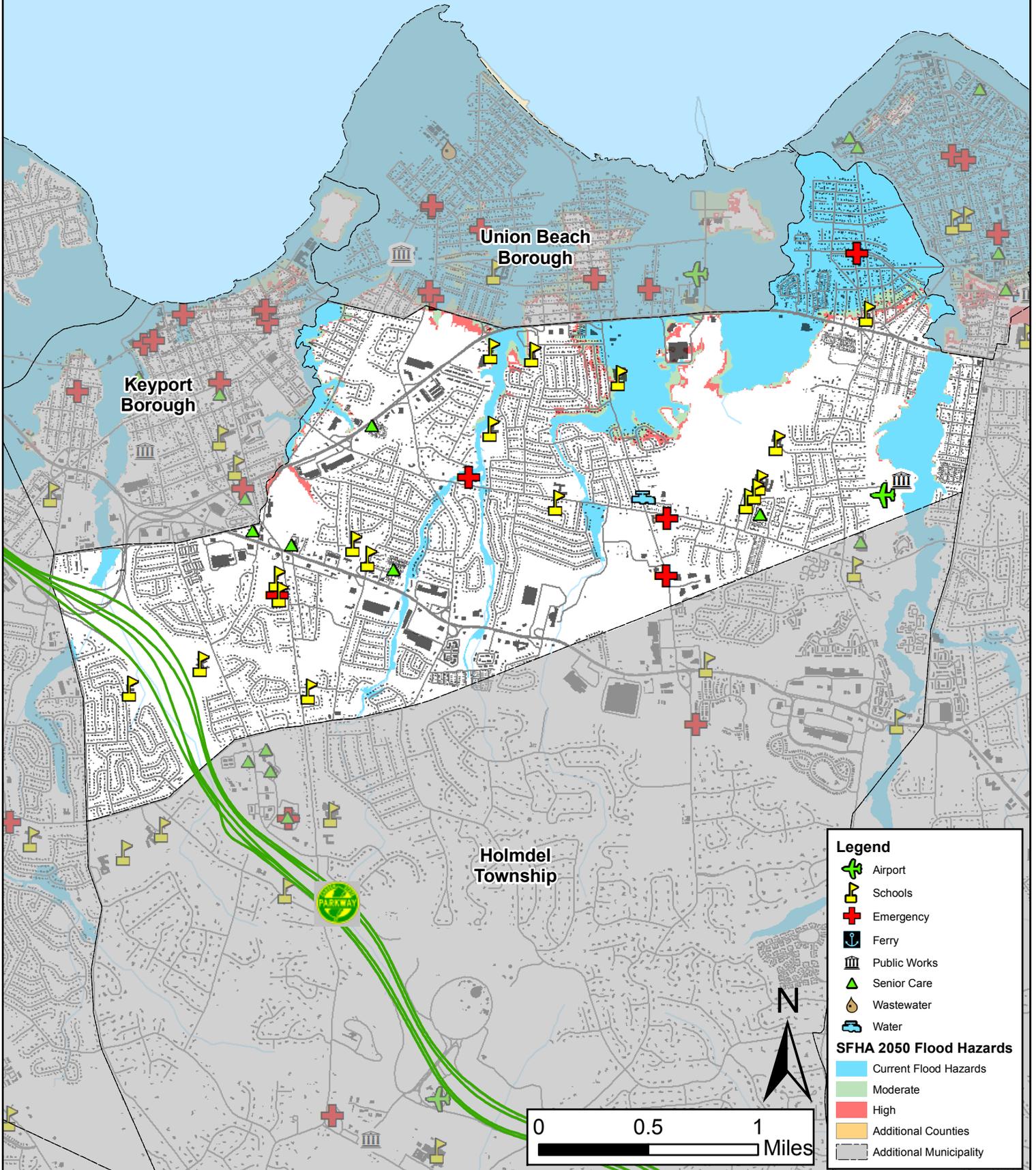
## SFHA 2050 Flood Hazards

- Current Flood Hazards
- Moderate
- High
- Additional Counties
- Additional Municipality



# Hazlet Township

Atlantic Ocean



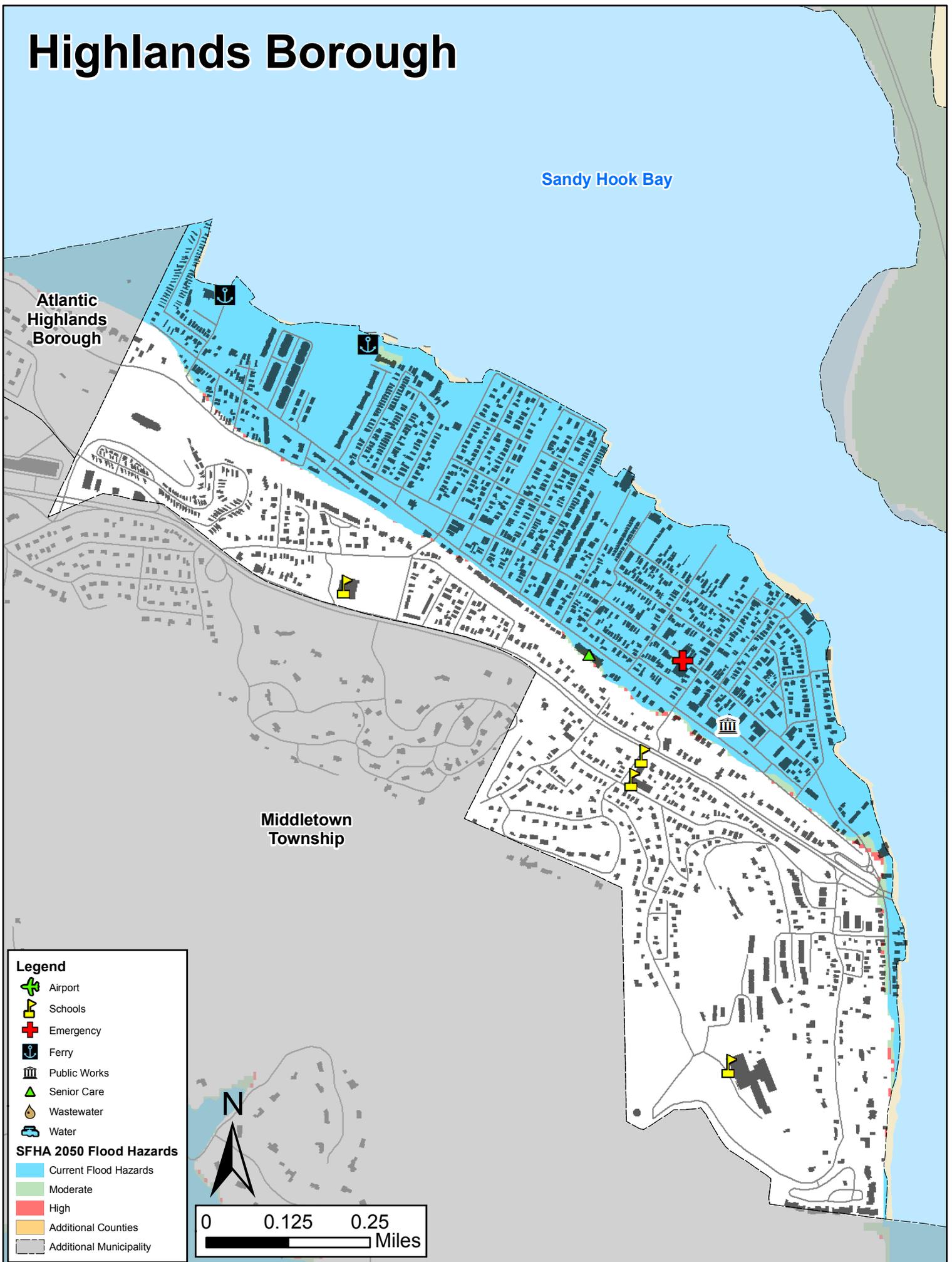
**Legend**

- Airport
- Schools
- Emergency
- Ferry
- Public Works
- Senior Care
- Wastewater
- Water

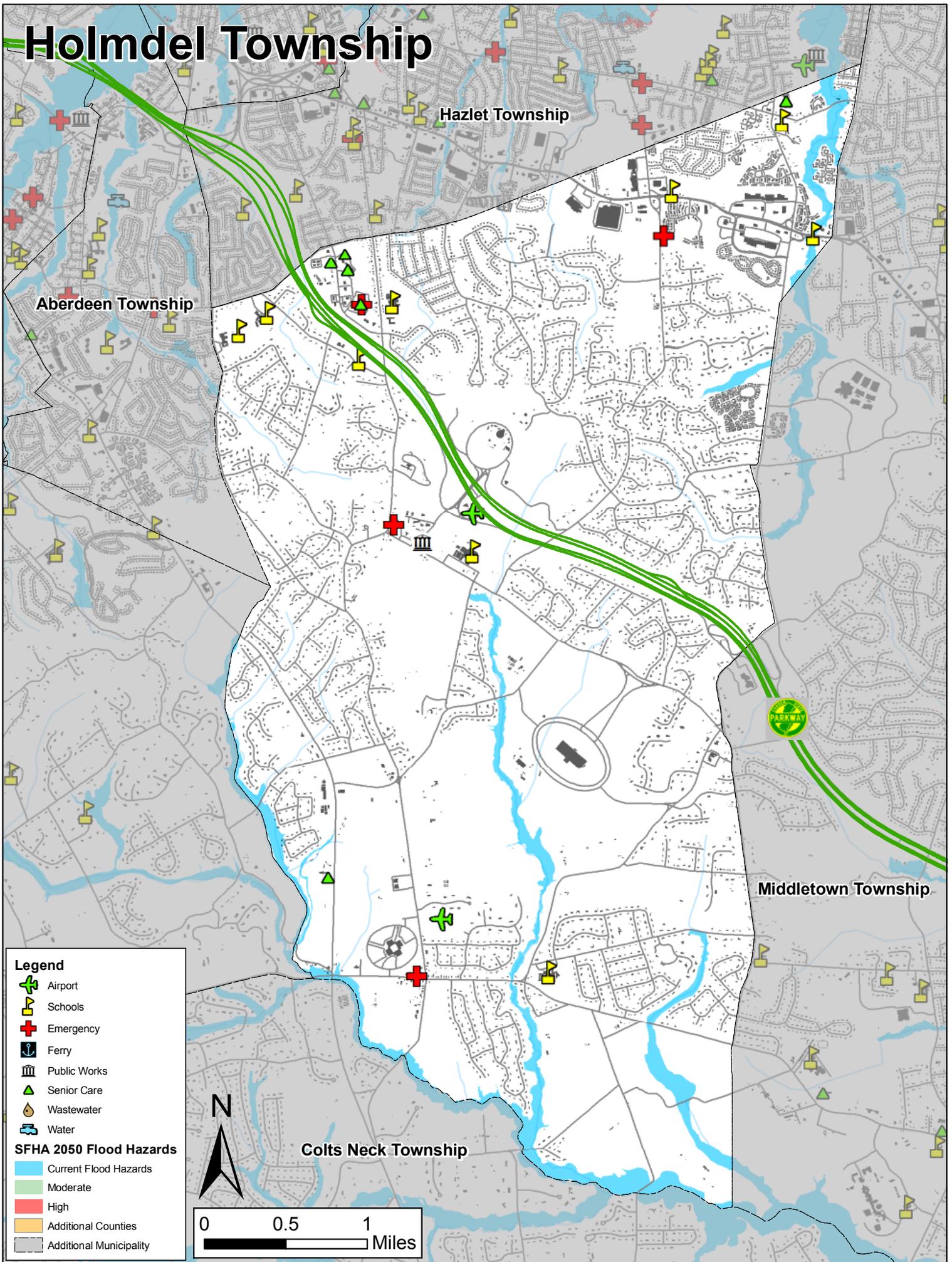
**SFHA 2050 Flood Hazards**

- Current Flood Hazards
- Moderate
- High
- Additional Counties
- Additional Municipality

# Highlands Borough



# Holmdel Township

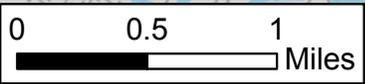


### Legend

- Airport
- Schools
- Emergency
- Ferry
- Public Works
- Senior Care
- Wastewater
- Water

### SFHA 2050 Flood Hazards

- Current Flood Hazards
- Moderate
- High
- Additional Counties
- Additional Municipality



# Howell Township

Colts Neck Township

Freehold Township

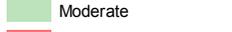
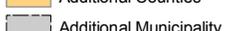
Ocean County

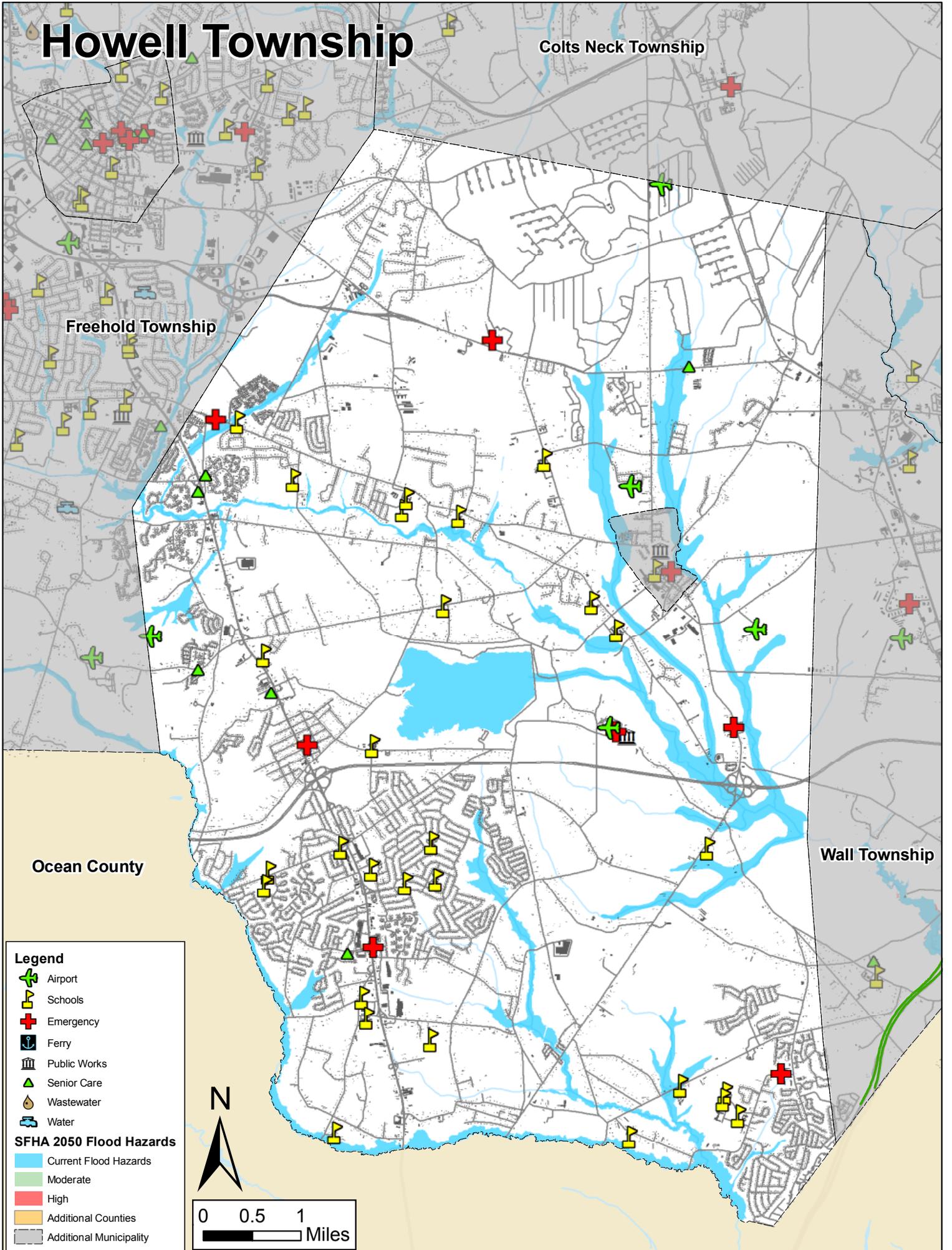
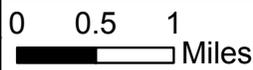
Wall Township

## Legend

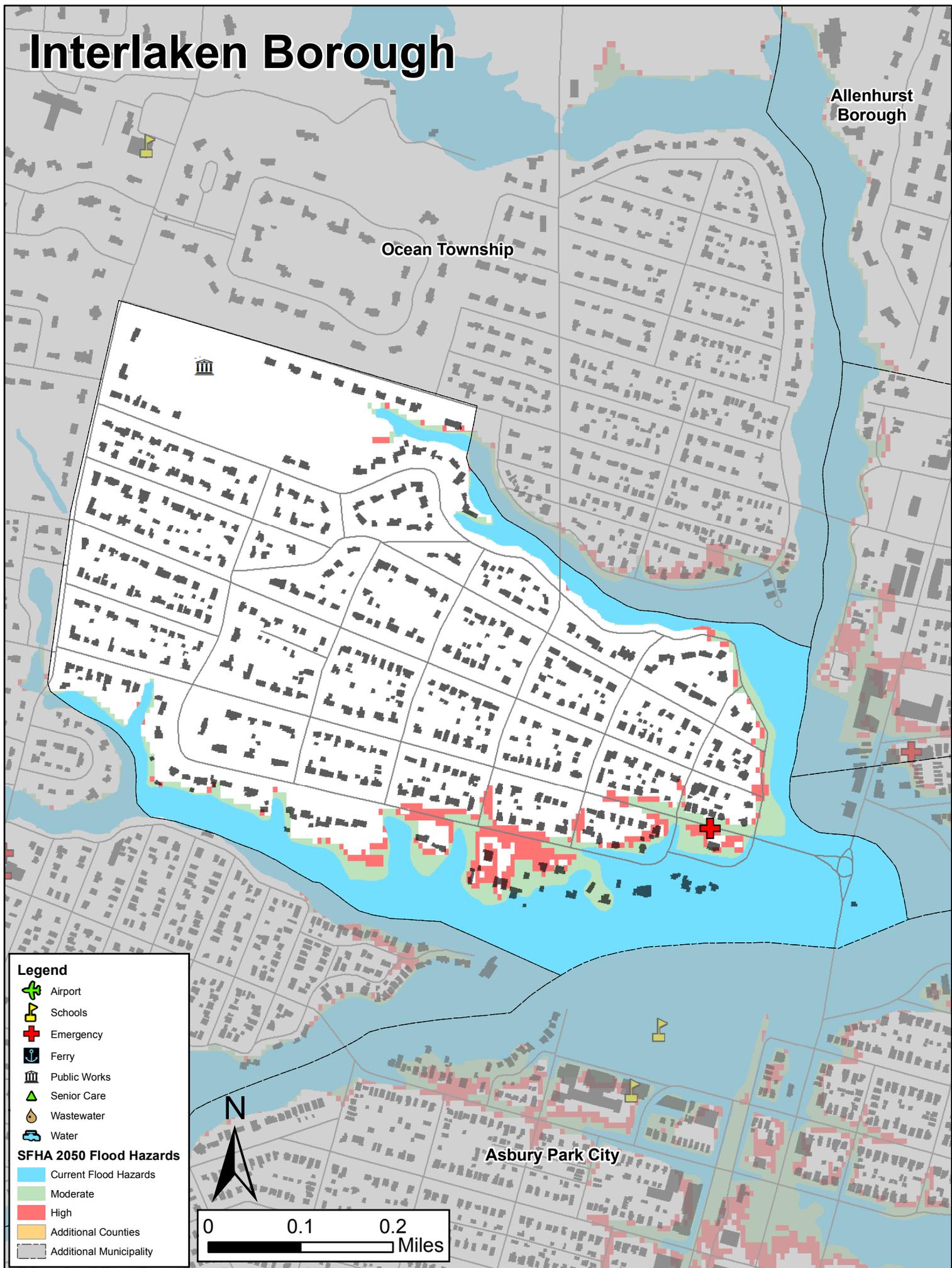
-  Airport
-  Schools
-  Emergency
-  Ferry
-  Public Works
-  Senior Care
-  Wastewater
-  Water

## SFHA 2050 Flood Hazards

-  Current Flood Hazards
-  Moderate
-  High
-  Additional Counties
-  Additional Municipality

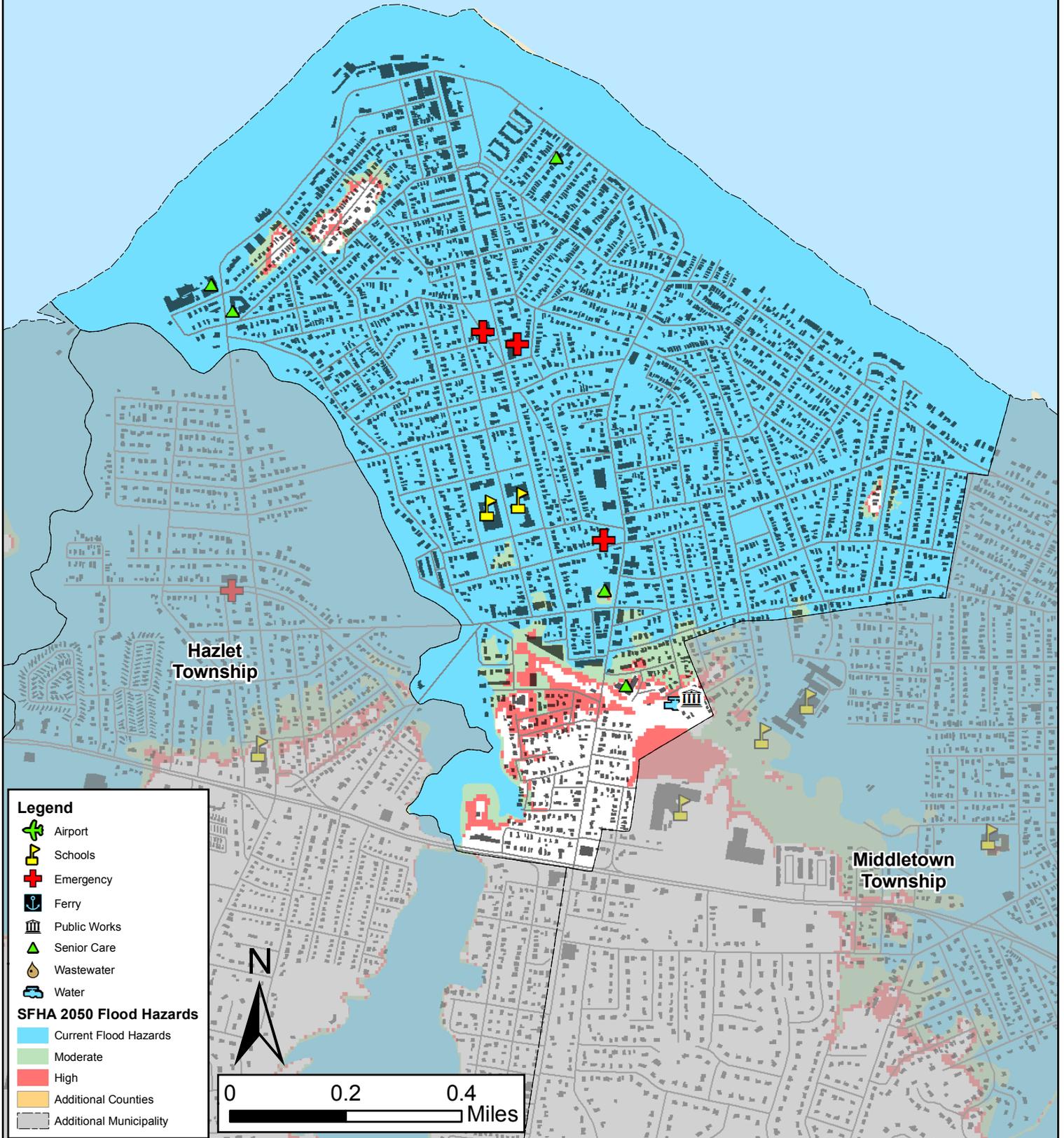


# Interlaken Borough

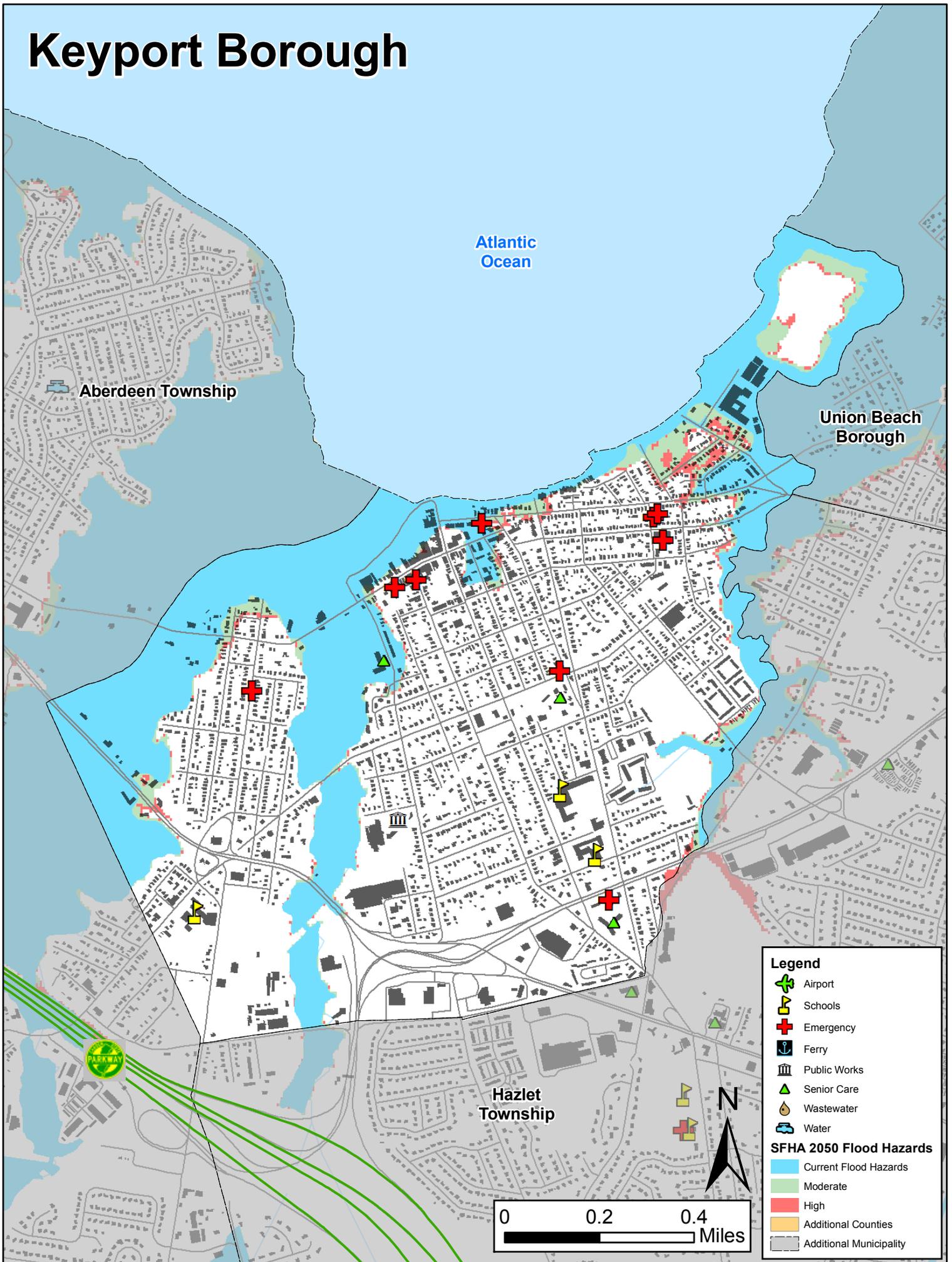


# Keansburg Borough

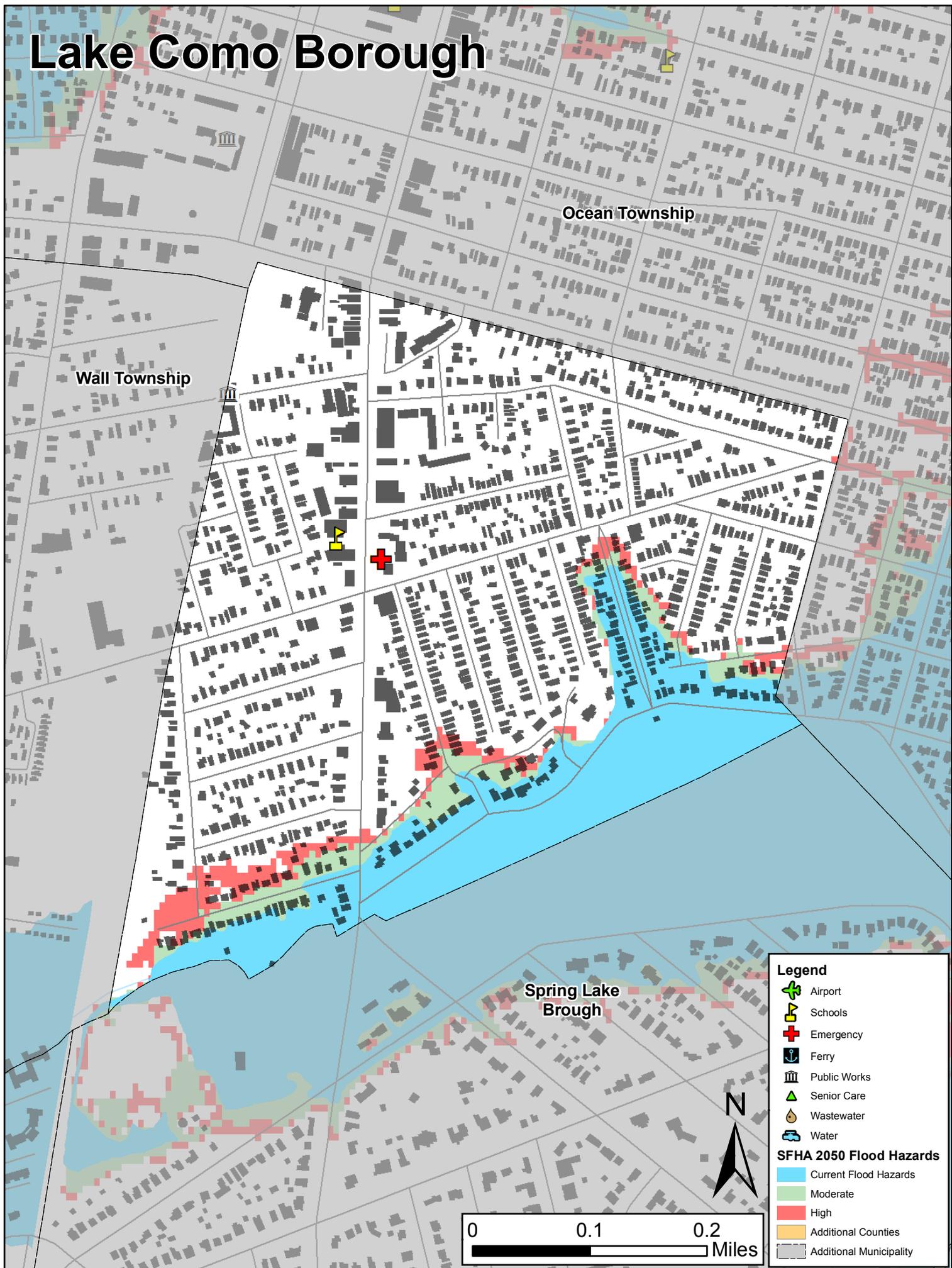
Sandy Hook Bay



# Keyport Borough



# Lake Como Borough



Wall Township

Ocean Township

Spring Lake  
Borough

### Legend

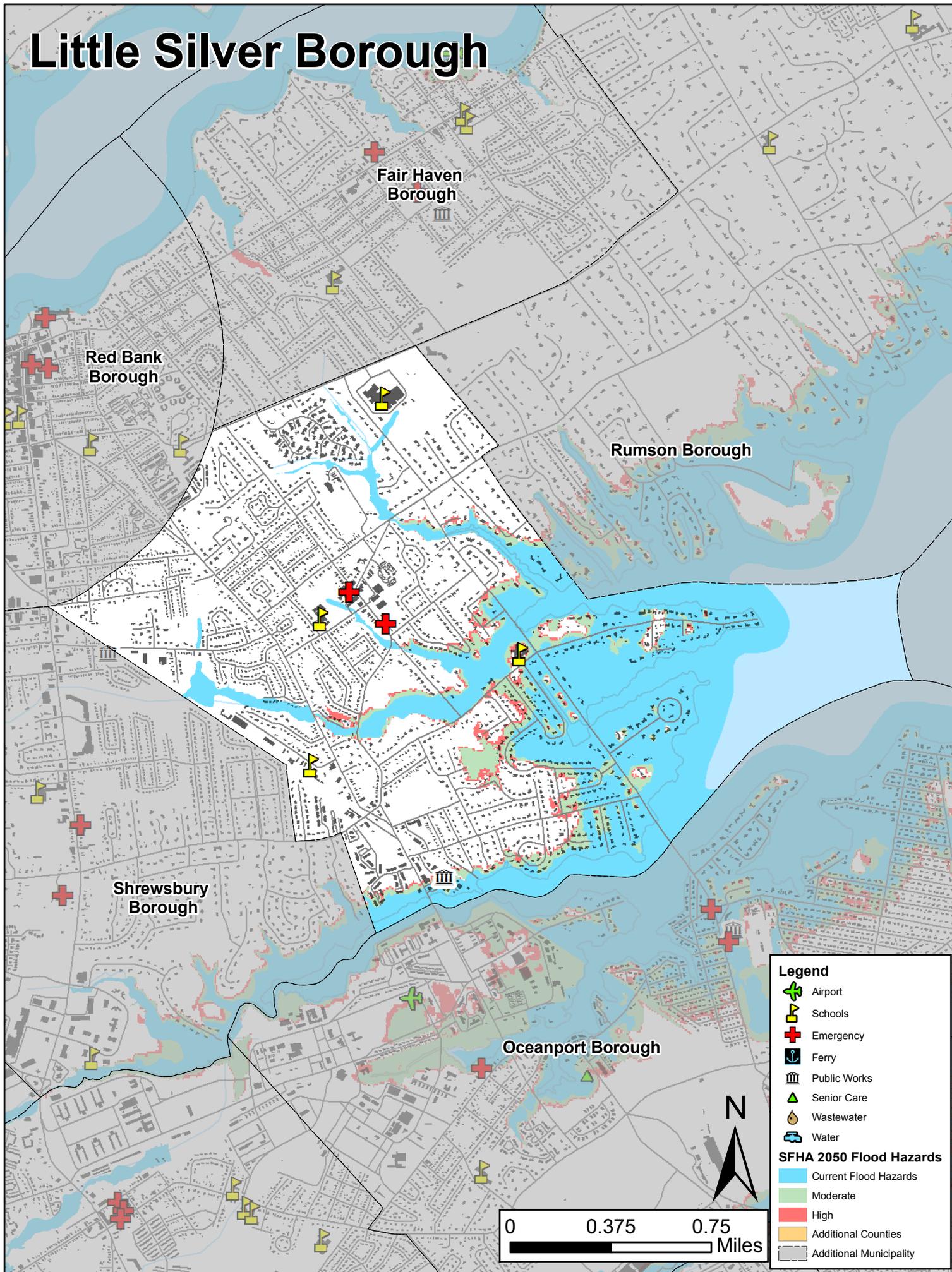
- Airport
- Schools
- Emergency
- Ferry
- Public Works
- Senior Care
- Wastewater
- Water

### SFHA 2050 Flood Hazards

- Current Flood Hazards
- Moderate
- High
- Additional Counties
- Additional Municipality

0 0.1 0.2  
Miles

# Little Silver Borough



### Legend

- Airport
- Schools
- Emergency
- Ferry
- Public Works
- Senior Care
- Wastewater
- Water

### SFHA 2050 Flood Hazards

- Current Flood Hazards
- Moderate
- High
- Additional Counties
- Additional Municipality



# Loch Arbour Village



Alленhurst  
Borough

Interlaken  
Borough

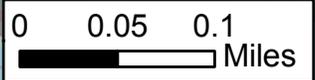
Asbury Park City

### Legend

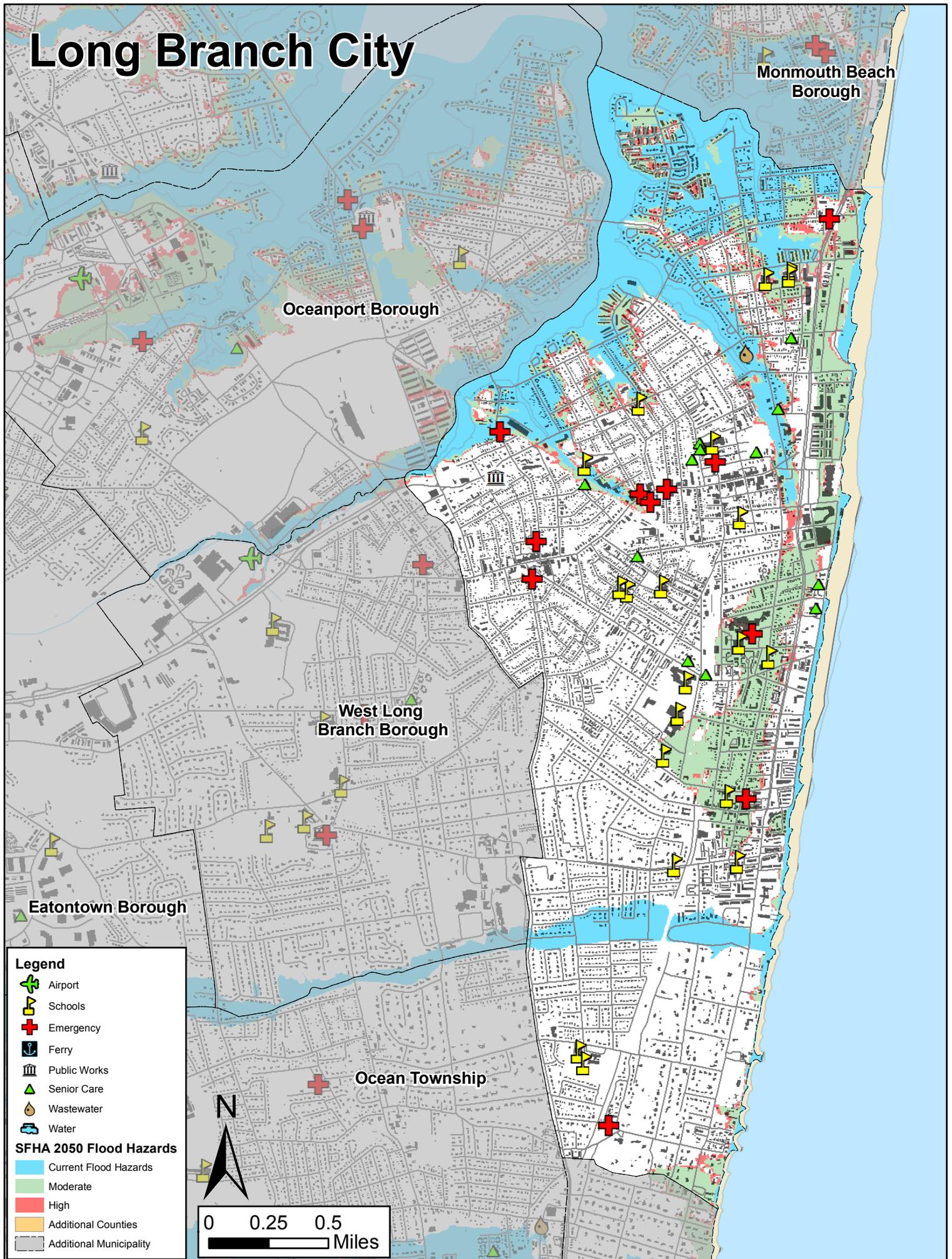
- Airport
- Schools
- Emergency
- Ferry
- Public Works
- Senior Care
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- Water

### SFHA 2050 Flood Hazards

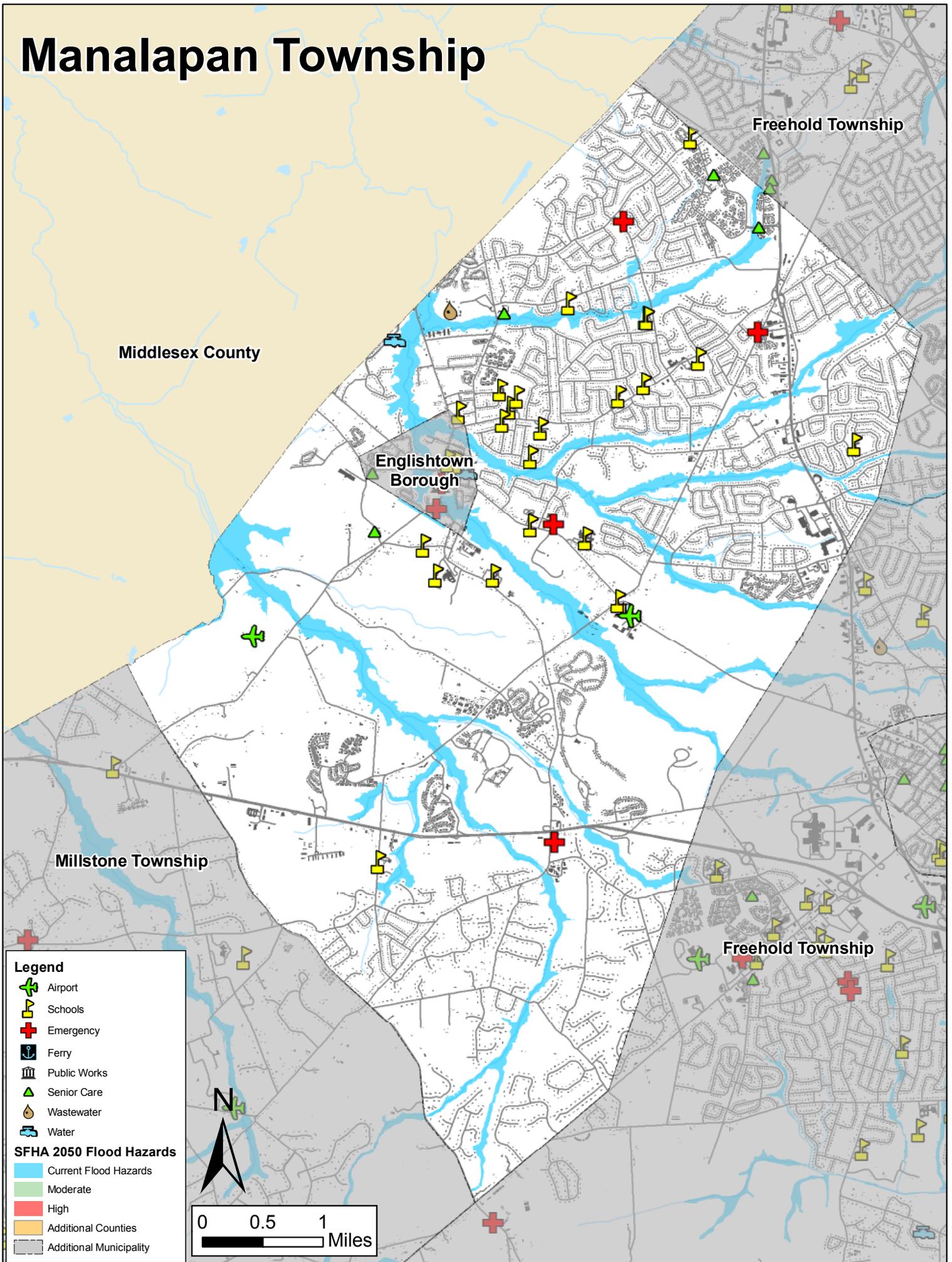
- Current Flood Hazards
- Moderate
- High
- Additional Counties
- Additional Municipality



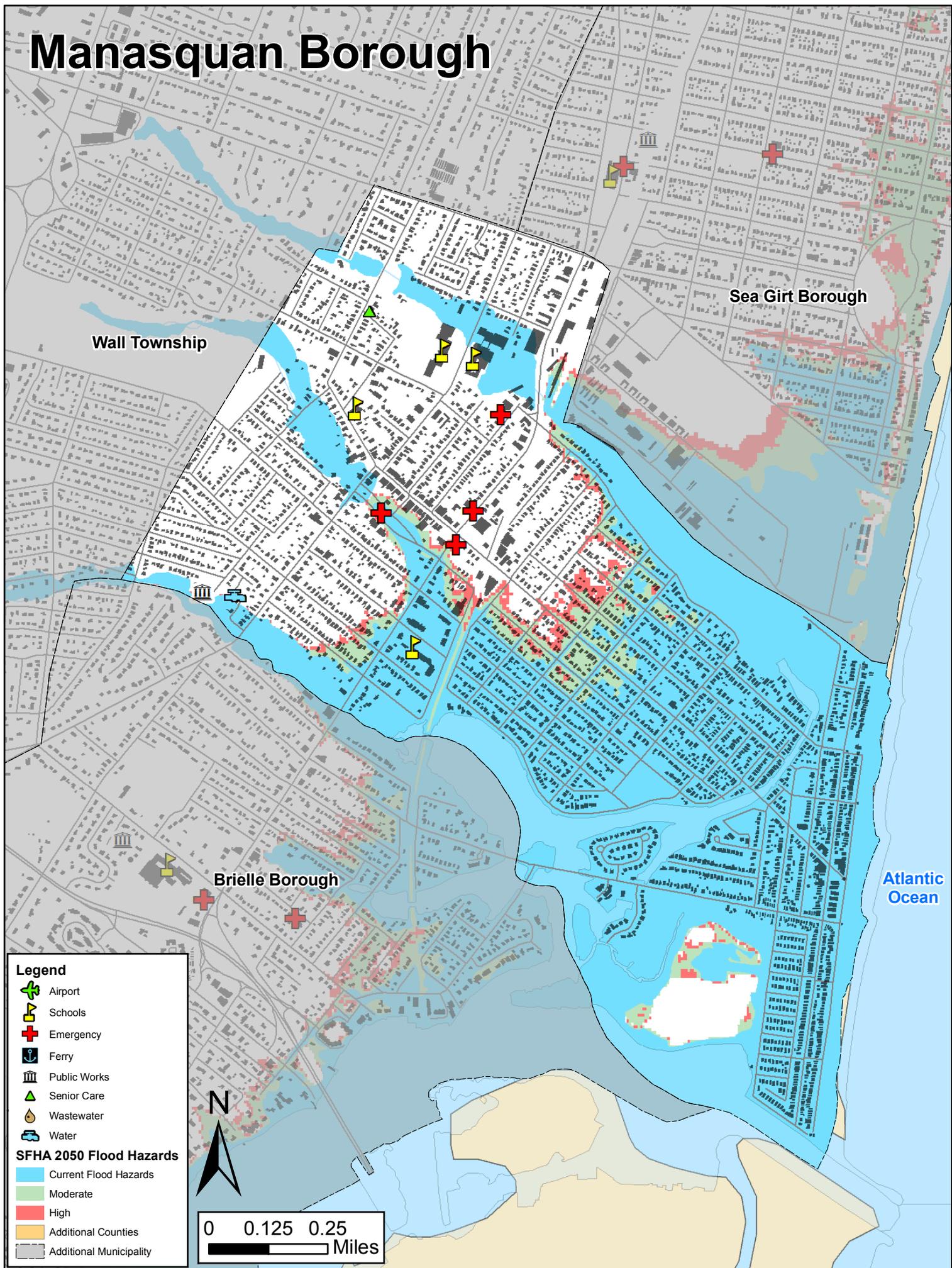
# Long Branch City



# Manalapan Township



# Manasquan Borough



Wall Township

Sea Girt Borough

Brielle Borough

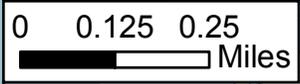
Atlantic Ocean

### Legend

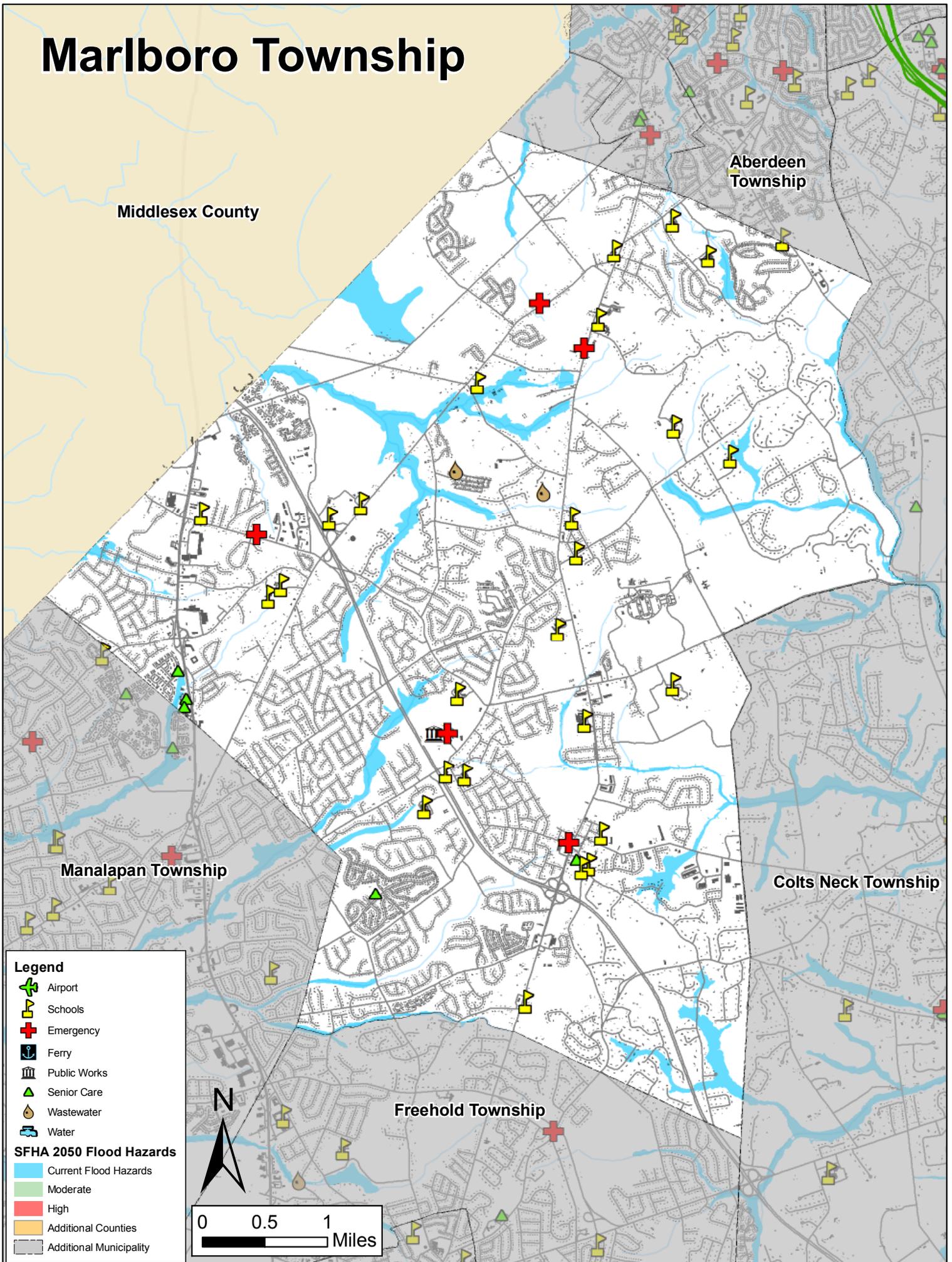
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- Public Works
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- Wastewater
- Water

### SFHA 2050 Flood Hazards

- Current Flood Hazards
- Moderate
- High
- Additional Counties
- Additional Municipality



# Marlboro Township



Middlesex County

Aberdeen Township

Manalapan Township

Colts Neck Township

Freehold Township

## Legend

- Airport
- Schools
- Emergency
- Ferry
- Public Works
- Senior Care
- Wastewater
- Water

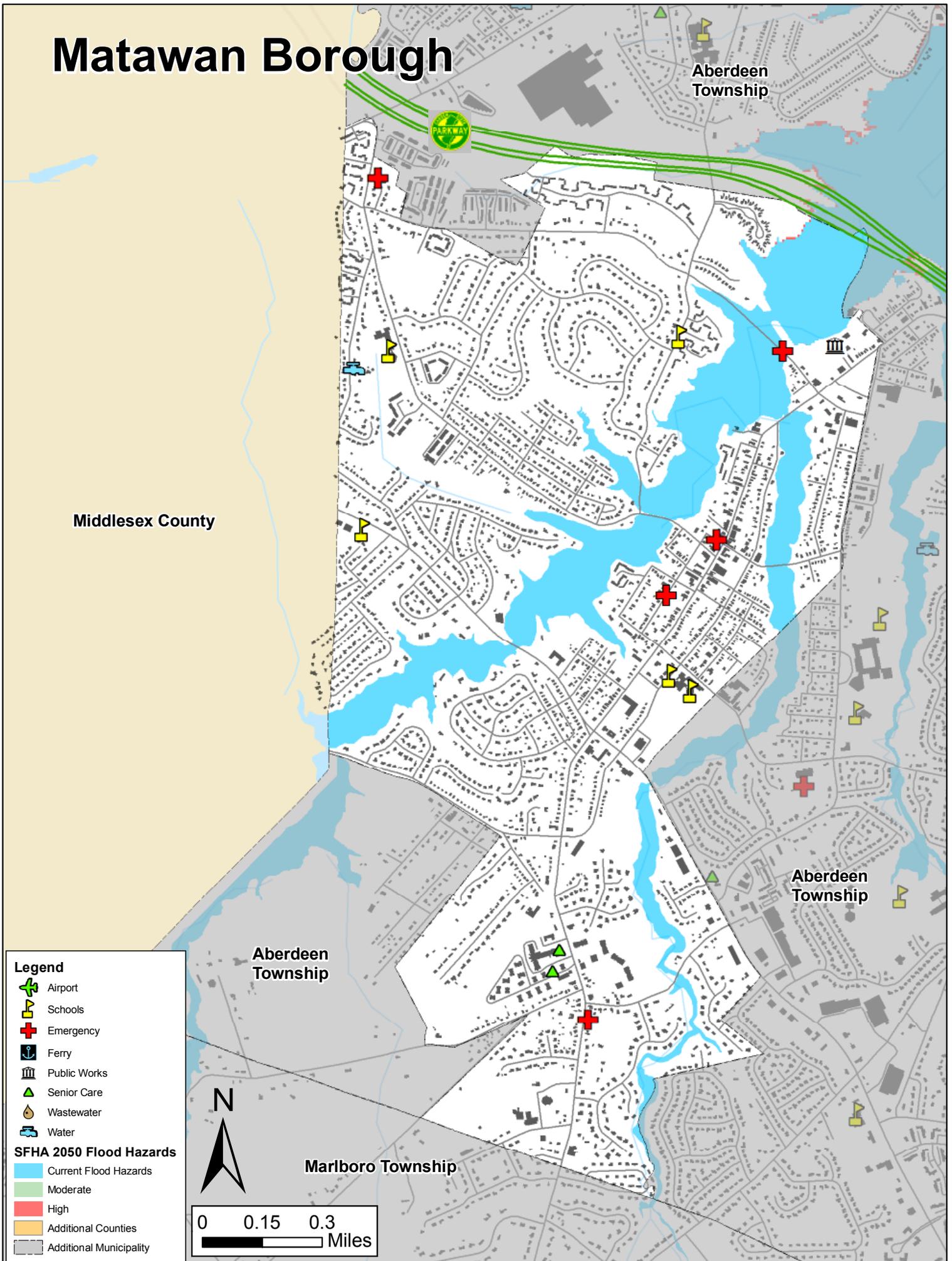
## SFHA 2050 Flood Hazards

- Current Flood Hazards
- Moderate
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- Additional Counties
- Additional Municipality



0 0.5 1 Miles

# Matawan Borough



Aberdeen Township

Middlesex County

Aberdeen Township

Aberdeen Township

Marlboro Township

## Legend

- Airport
- Schools
- Emergency
- Ferry
- Public Works
- Senior Care
- Wastewater
- Water

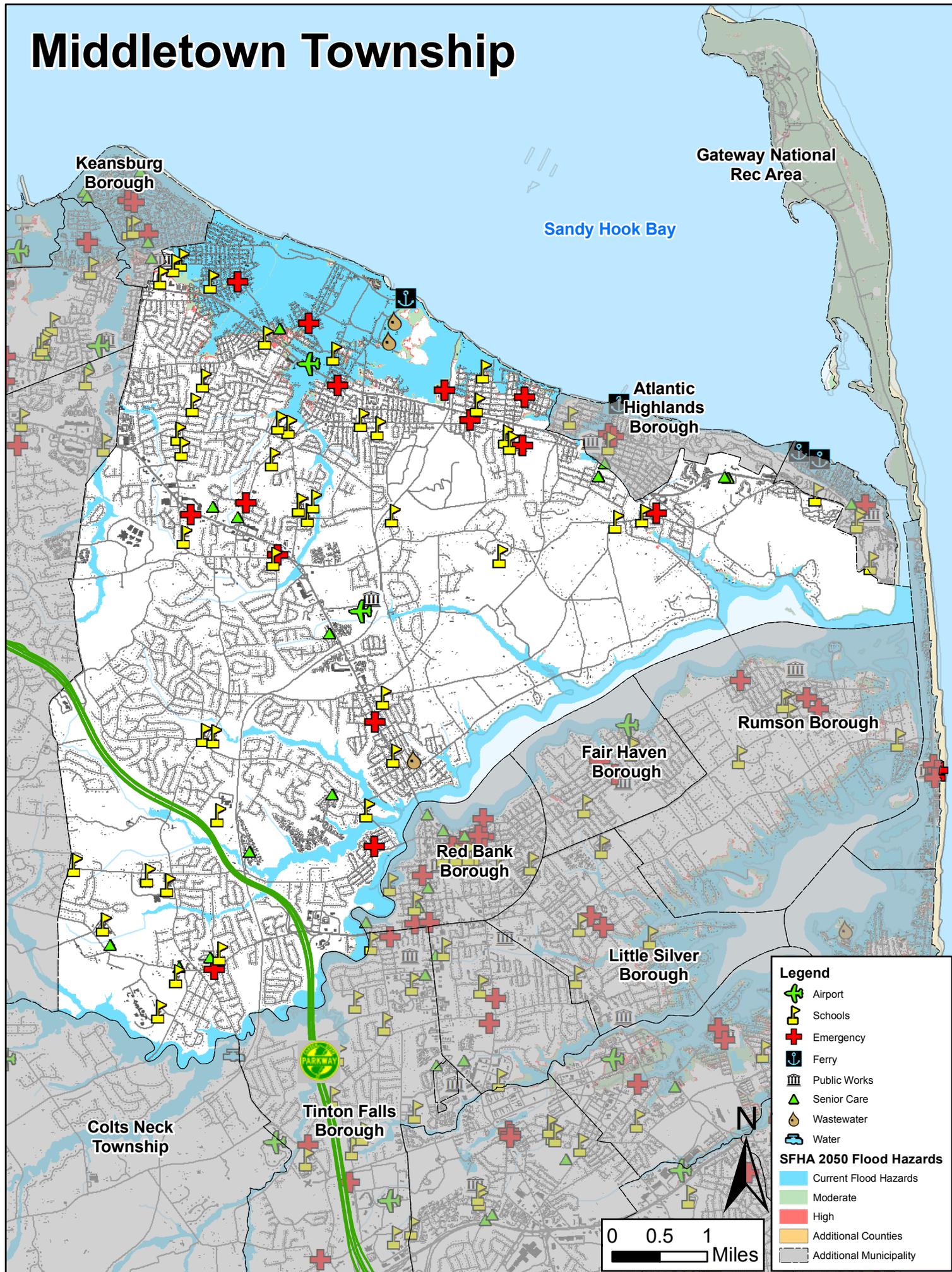
## SFHA 2050 Flood Hazards

- Current Flood Hazards
- Moderate
- High
- Additional Counties
- Additional Municipality

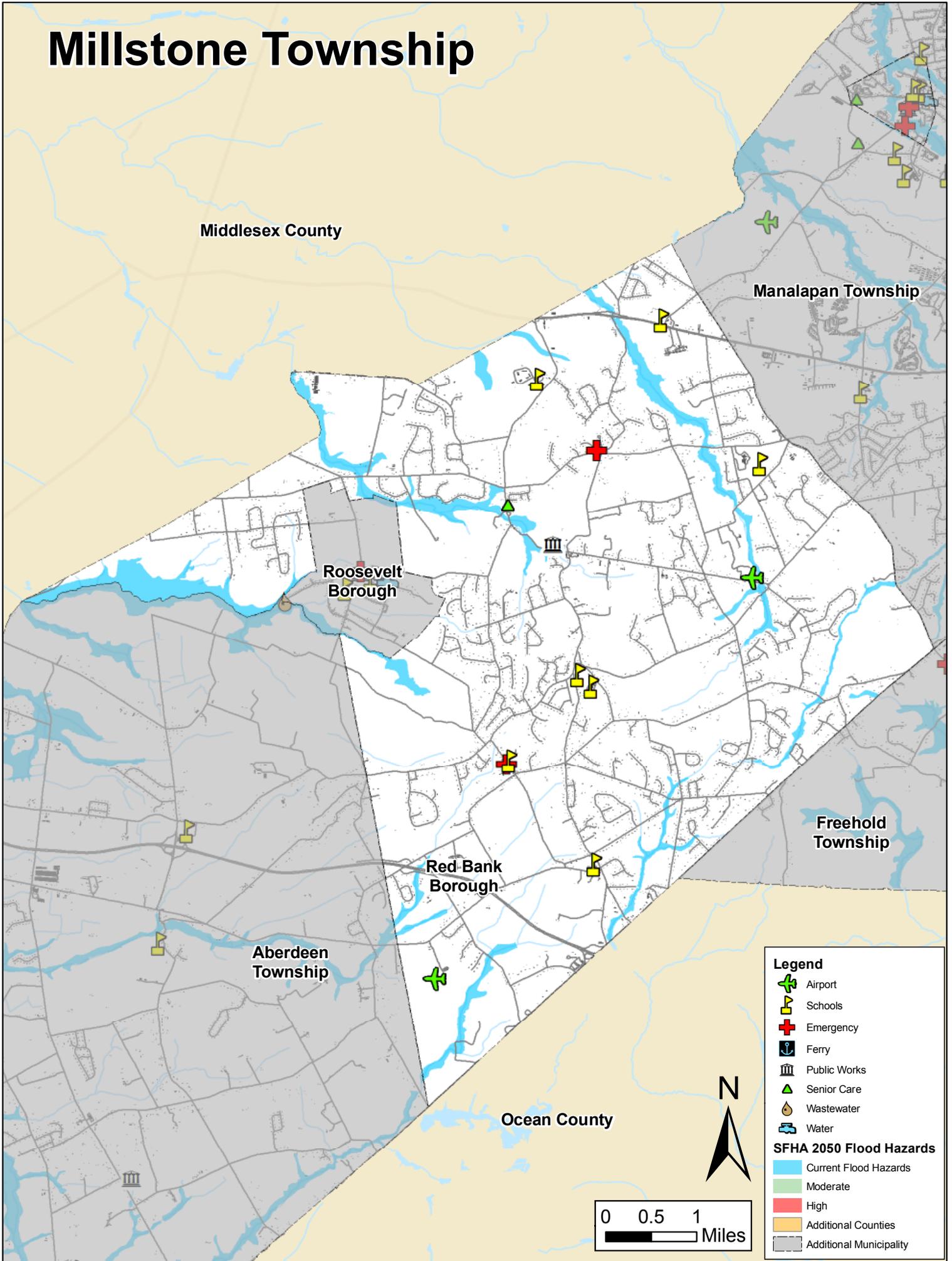


0 0.15 0.3 Miles

# Middletown Township



# Millstone Township



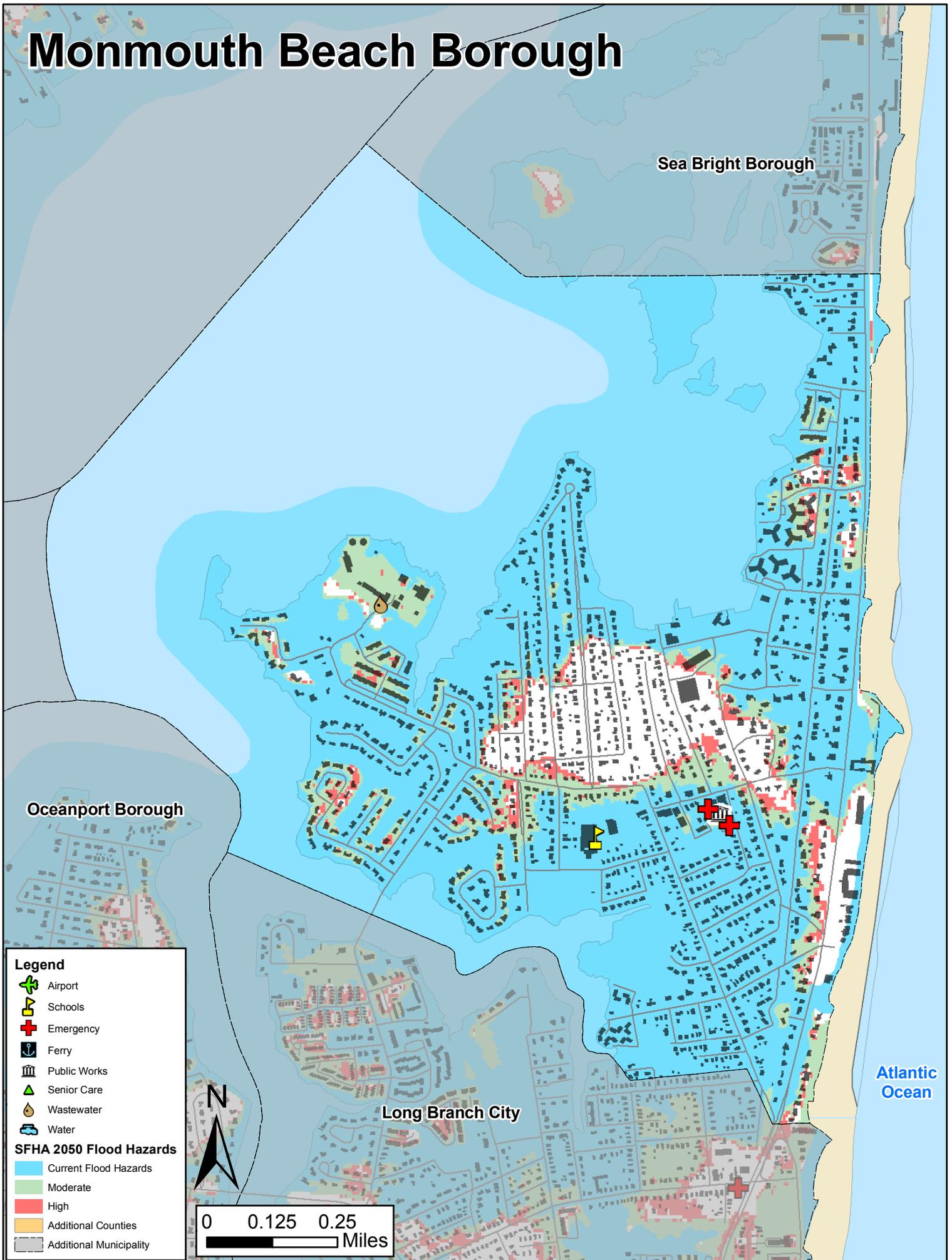
**Legend**

- Airport
- Schools
- Emergency
- Ferry
- Public Works
- Senior Care
- Wastewater
- Water

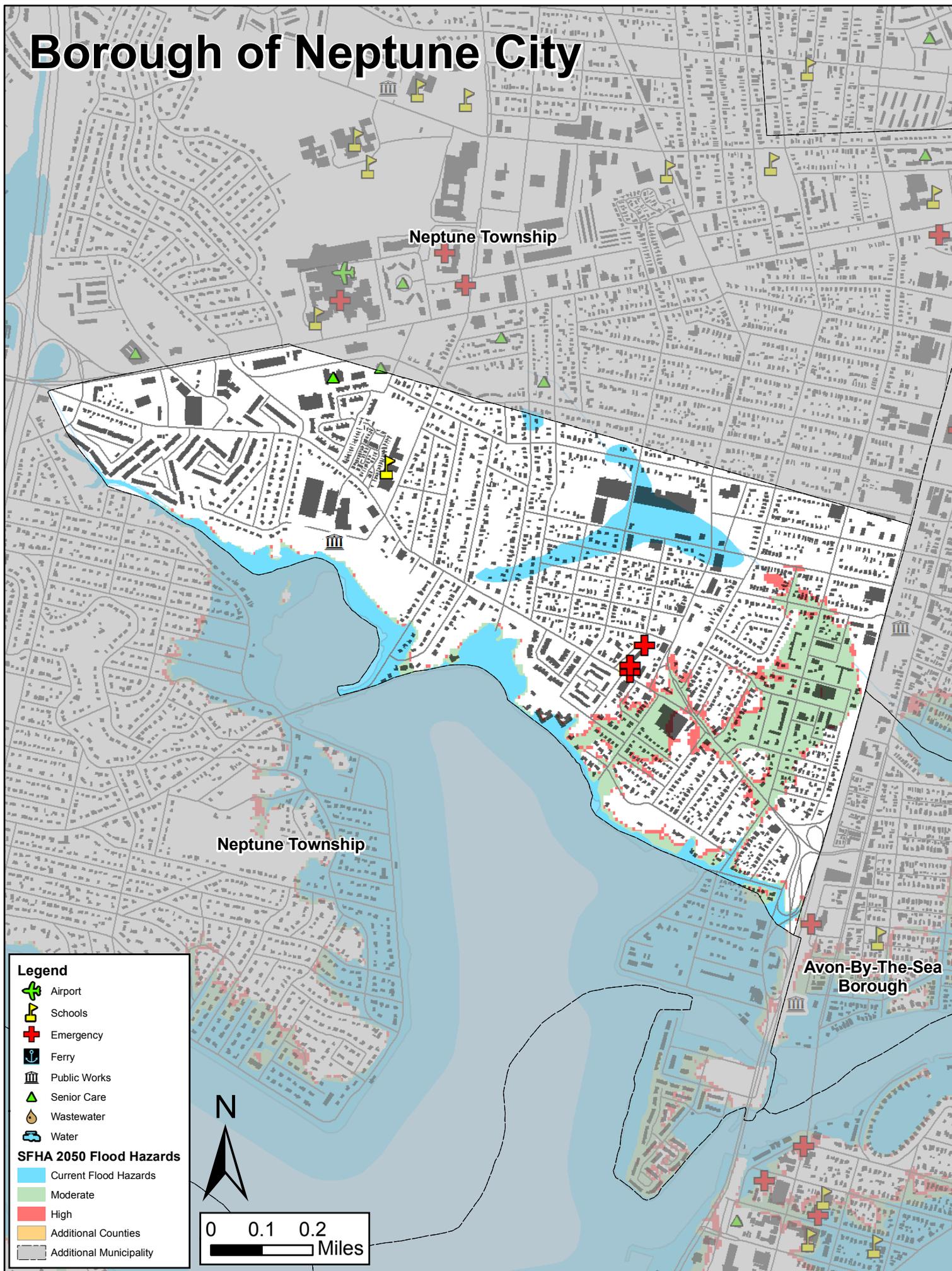
**SFHA 2050 Flood Hazards**

- Current Flood Hazards
- Moderate
- High
- Additional Counties
- Additional Municipality

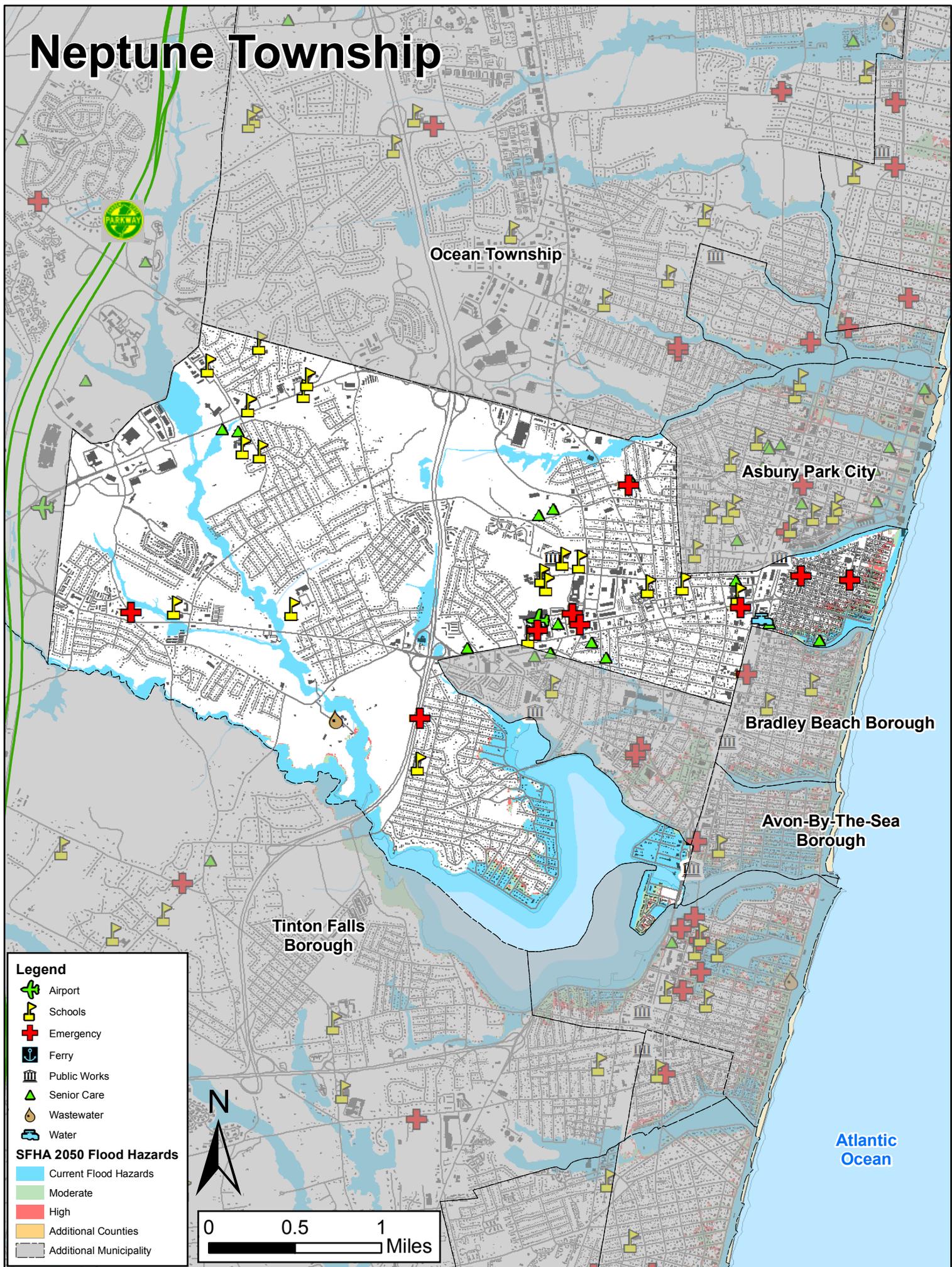
# Monmouth Beach Borough



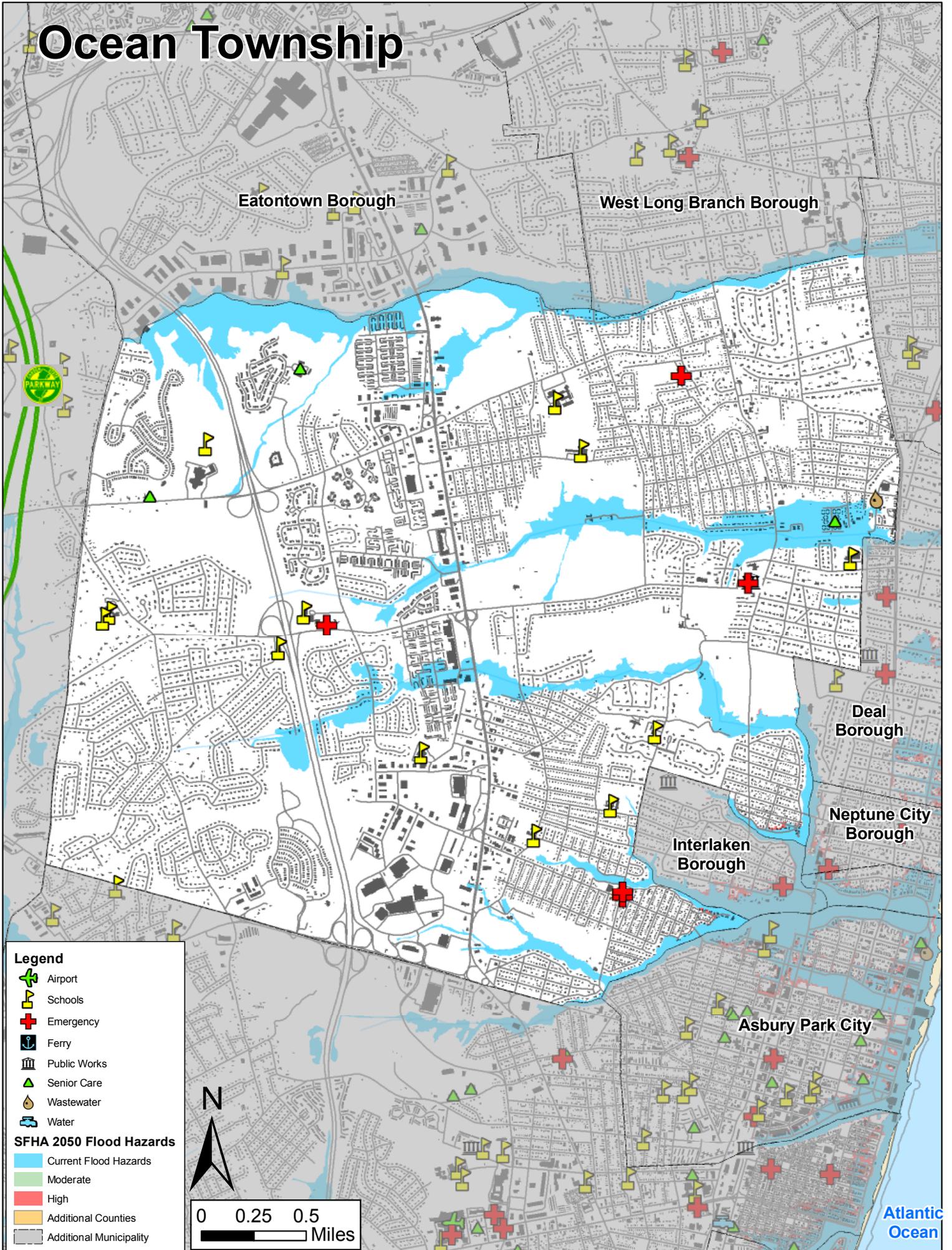
# Borough of Neptune City



# Neptune Township



# Ocean Township

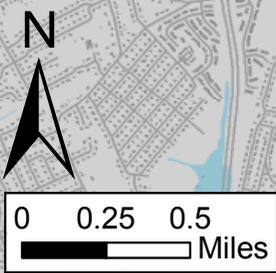


**Legend**

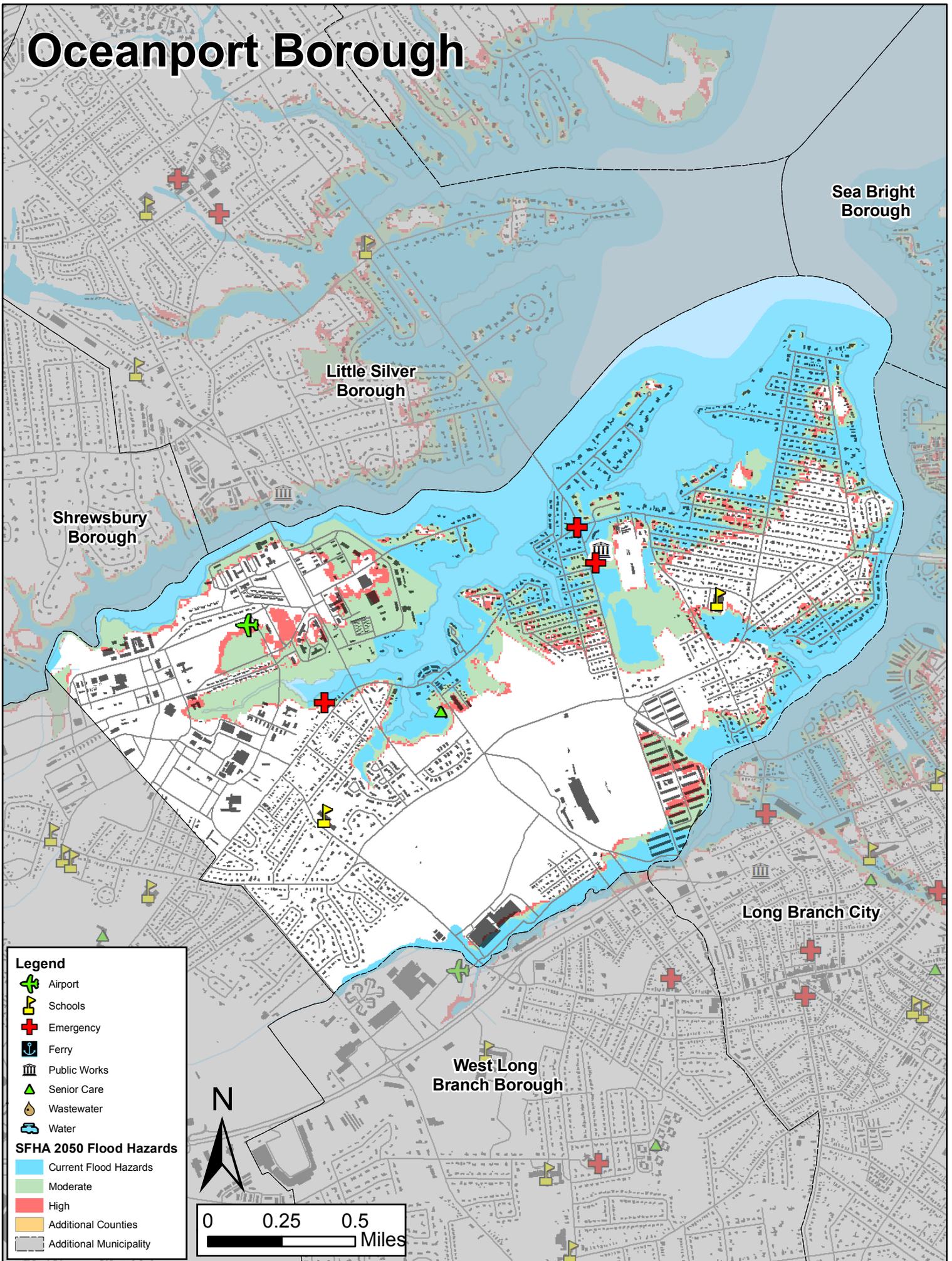
- Airport
- Schools
- Emergency
- Ferry
- Public Works
- Senior Care
- Wastewater
- Water

**SFHA 2050 Flood Hazards**

- Current Flood Hazards
- Moderate
- High
- Additional Counties
- Additional Municipality



# Oceanport Borough



Sea Bright  
Borough

Little Silver  
Borough

Shrewsbury  
Borough

Long Branch City

West Long  
Branch Borough

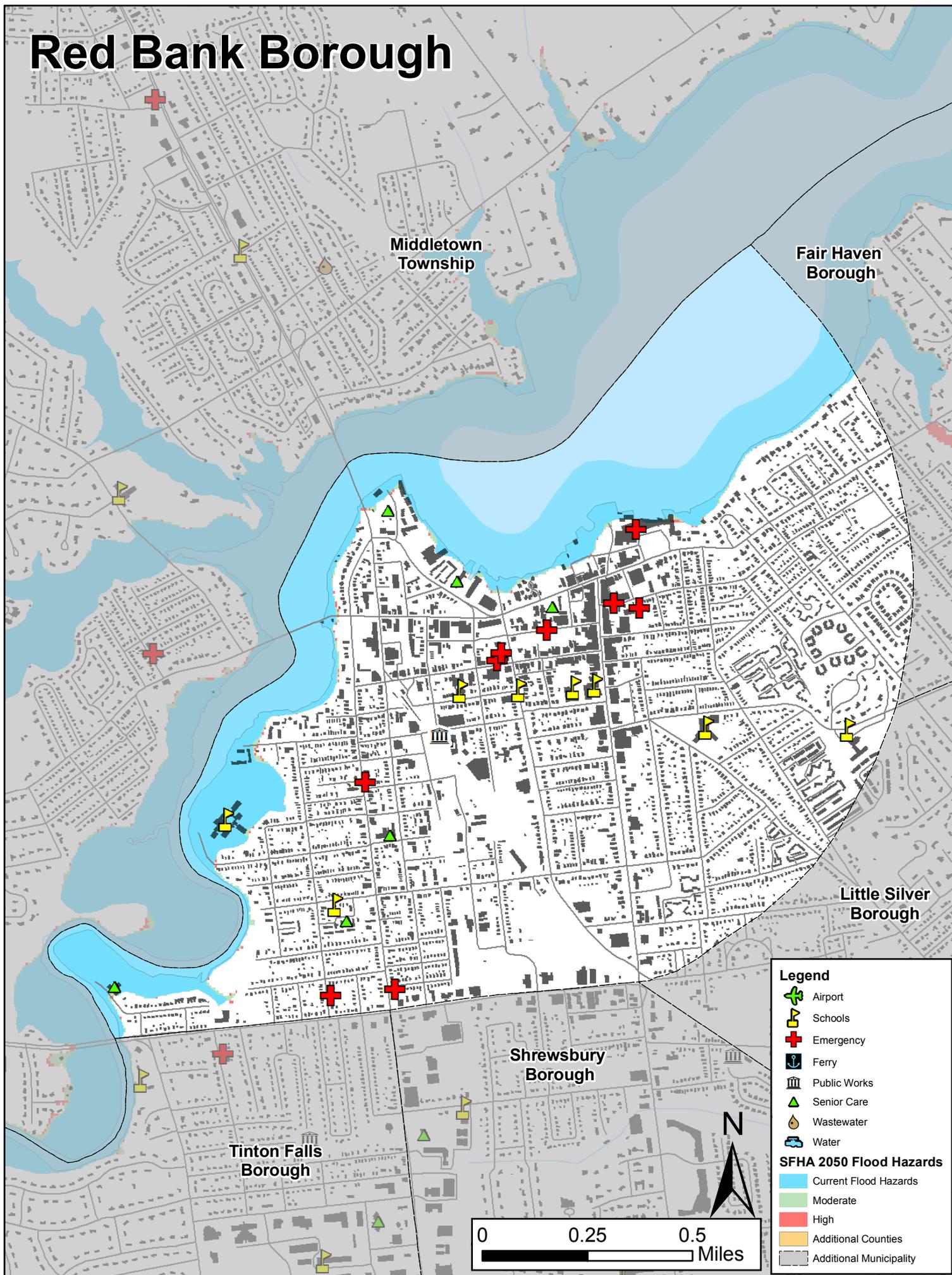
## Legend

- Airport
- Schools
- Emergency
- Ferry
- Public Works
- Senior Care
- Wastewater
- Water

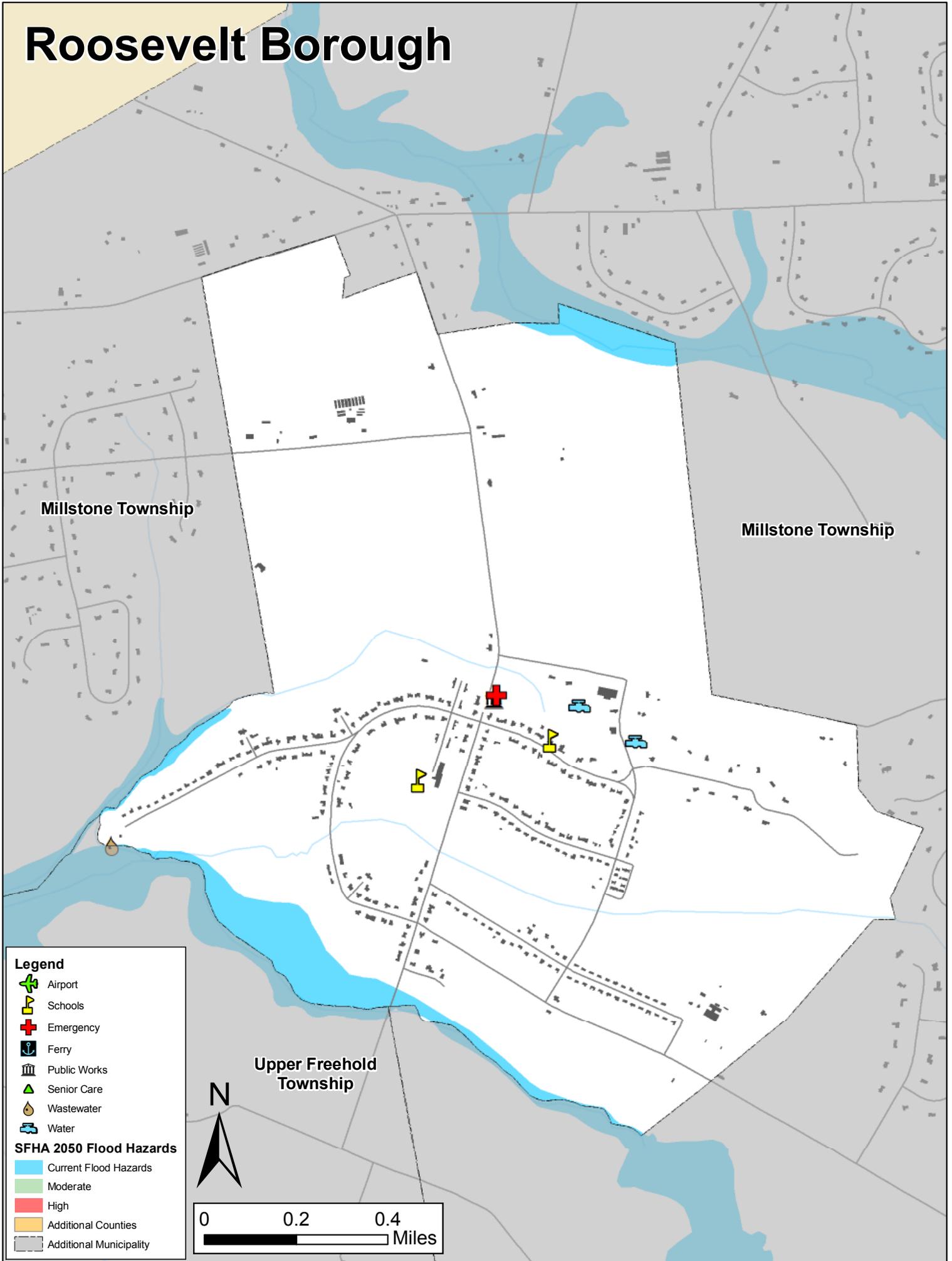
## SFHA 2050 Flood Hazards

- Current Flood Hazards
- Moderate
- High
- Additional Counties
- Additional Municipality

# Red Bank Borough



# Roosevelt Borough



Millstone Township

Millstone Township

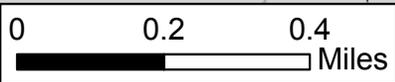
Upper Freehold  
Township

### Legend

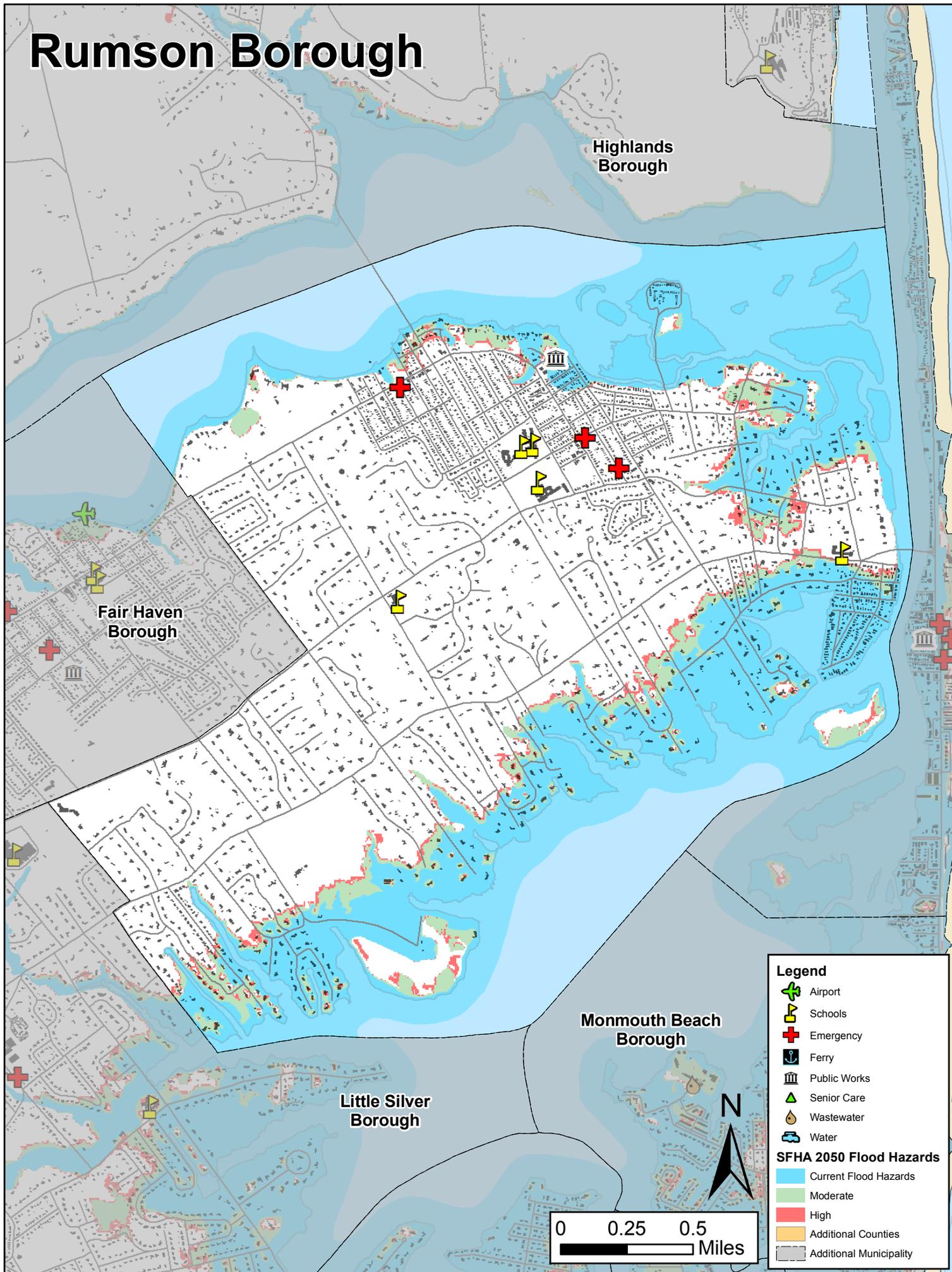
- Airport
- Schools
- Emergency
- Ferry
- Public Works
- Senior Care
- Wastewater
- Water

### SFHA 2050 Flood Hazards

- Current Flood Hazards
- Moderate
- High
- Additional Counties
- Additional Municipality



# Rumson Borough



Highlands Borough

Fair Haven Borough

Monmouth Beach Borough

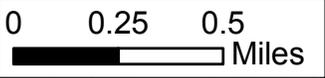
Little Silver Borough

### Legend

- Airport
- Schools
- Emergency
- Ferry
- Public Works
- Senior Care
- Wastewater
- Water

### SFHA 2050 Flood Hazards

- Current Flood Hazards
- Moderate
- High
- Additional Counties
- Additional Municipality



# Sea Bright Borough



Middletown Township

Highlands Borough

Atlantic Ocean

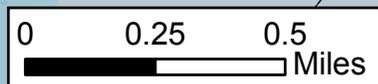
Rumson Borough

### Legend

- Airport
- Schools
- Emergency
- Ferry
- Public Works
- Senior Care
- Wastewater
- Water

### SFHA 2050 Flood Hazards

- Current Flood Hazards
- Moderate
- High
- Additional Counties
- Additional Municipality



# Sea Girt Borough

Spring Lake Heights Brough

Belmar Borough

Wall Township

Manasquan Borough

## Legend

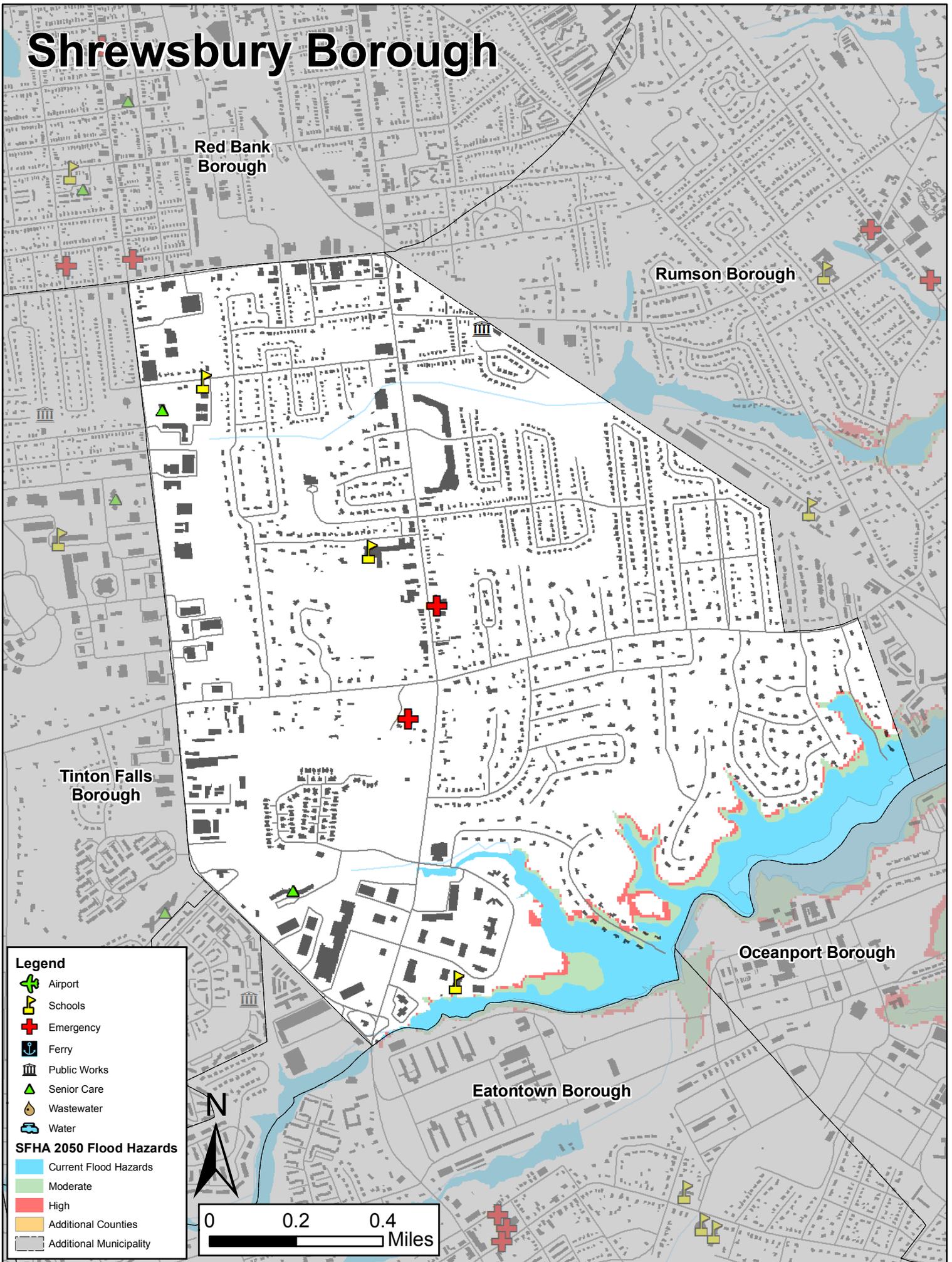
-  Airport
-  Schools
-  Emergency
-  Ferry
-  Public Works
-  Senior Care
-  Wastewater
-  Water

## SFHA 2050 Flood Hazards

-  Current Flood Hazards
-  Moderate
-  High
-  Additional Counties
-  Additional Municipality



# Shrewsbury Borough



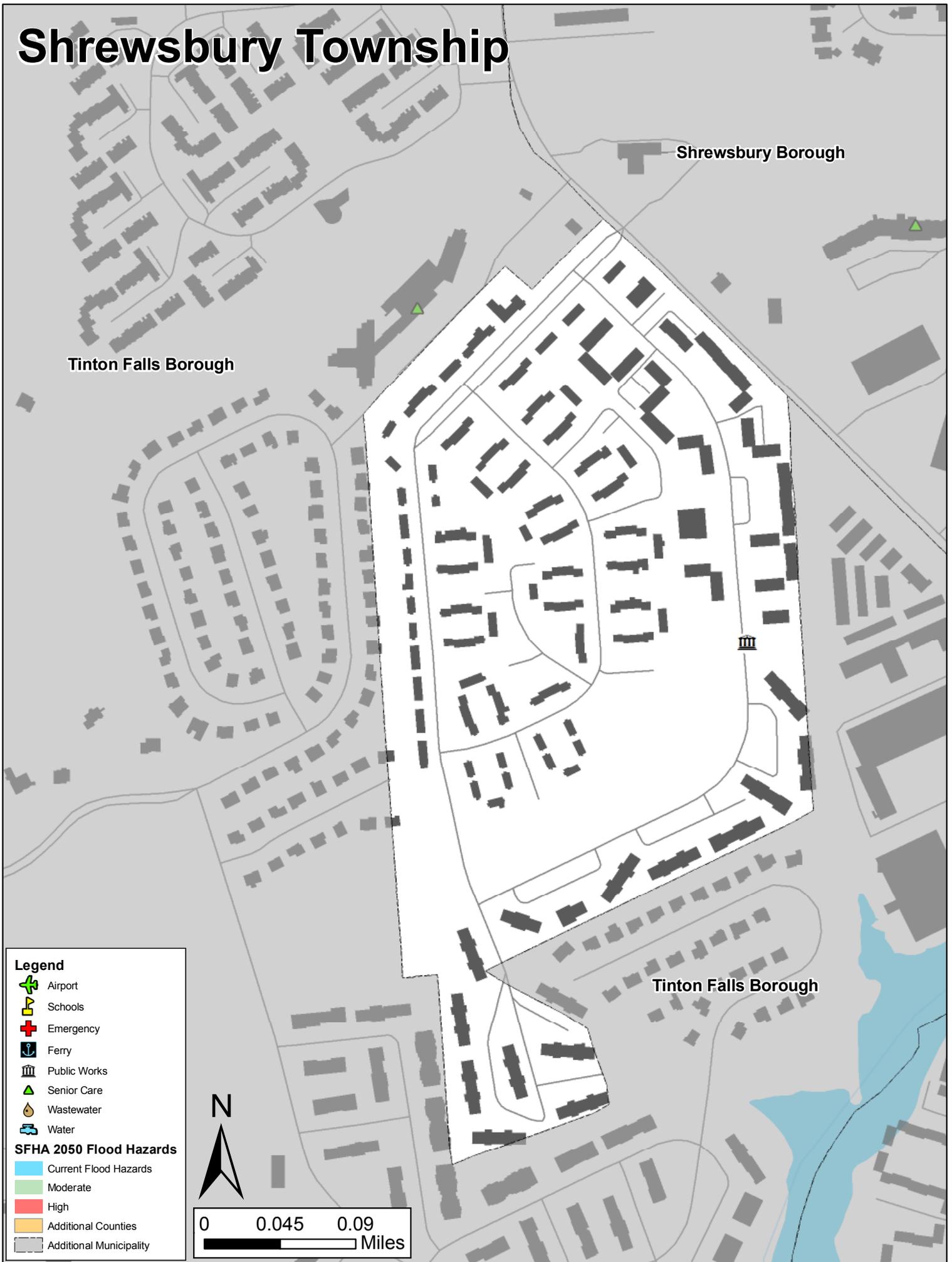
## Legend

- Airport
- Schools
- Emergency
- Ferry
- Public Works
- Senior Care
- Wastewater
- Water

## SFHA 2050 Flood Hazards

- Current Flood Hazards
- Moderate
- High
- Additional Counties
- Additional Municipality

# Shrewsbury Township



Shrewsbury Borough

Tinton Falls Borough

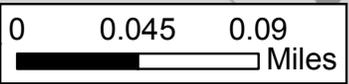
Tinton Falls Borough

### Legend

- Airport
- Schools
- Emergency
- Ferry
- Public Works
- Senior Care
- Wastewater
- Water

### SFHA 2050 Flood Hazards

- Current Flood Hazards
- Moderate
- High
- Additional Counties
- Additional Municipality



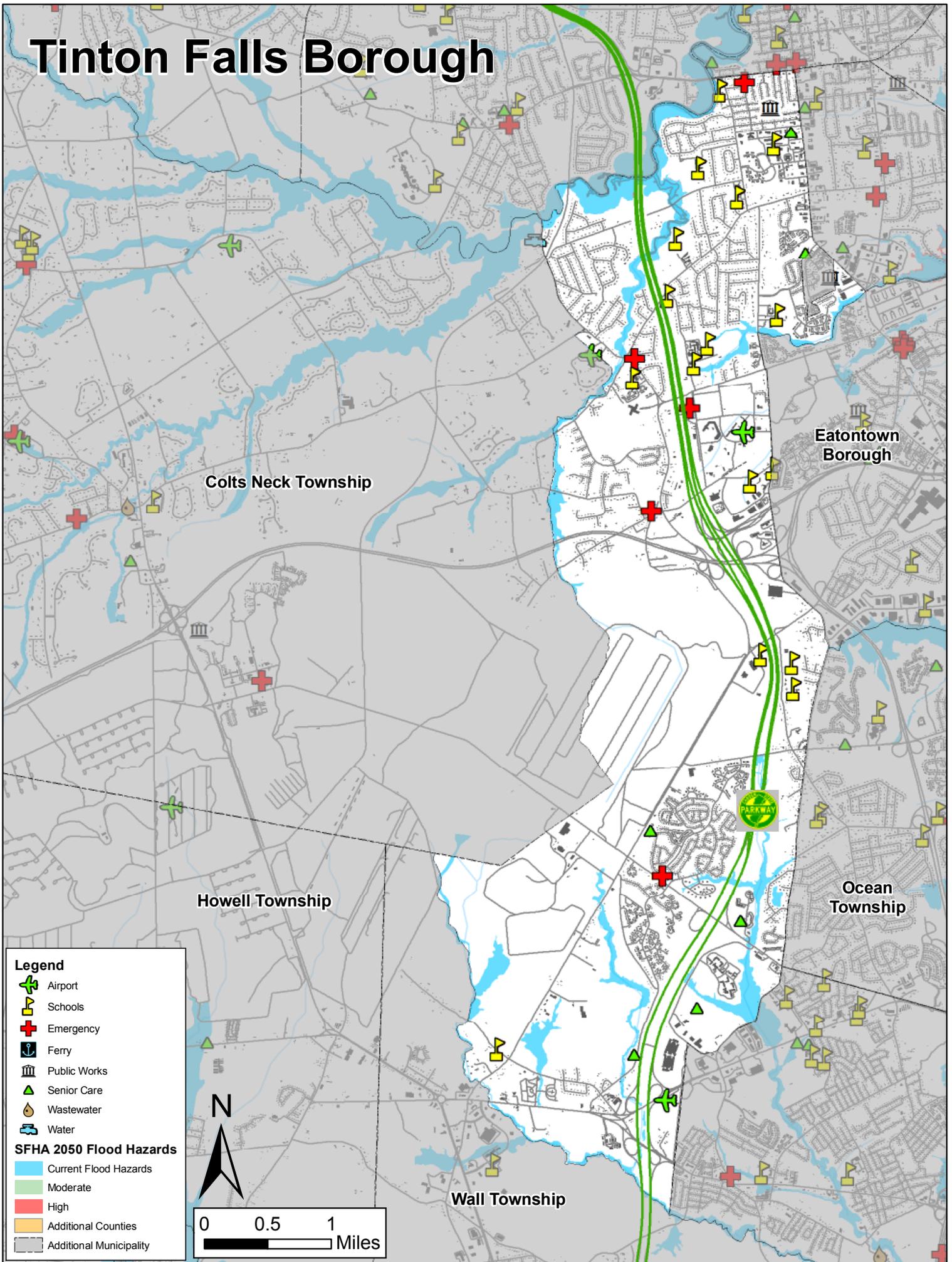
# Spring Lake Borough



# Spring Lake Heights



# Tinton Falls Borough

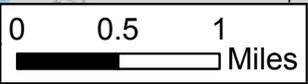


## Legend

- Airport
- Schools
- Emergency
- Ferry
- Public Works
- Senior Care
- Wastewater
- Water

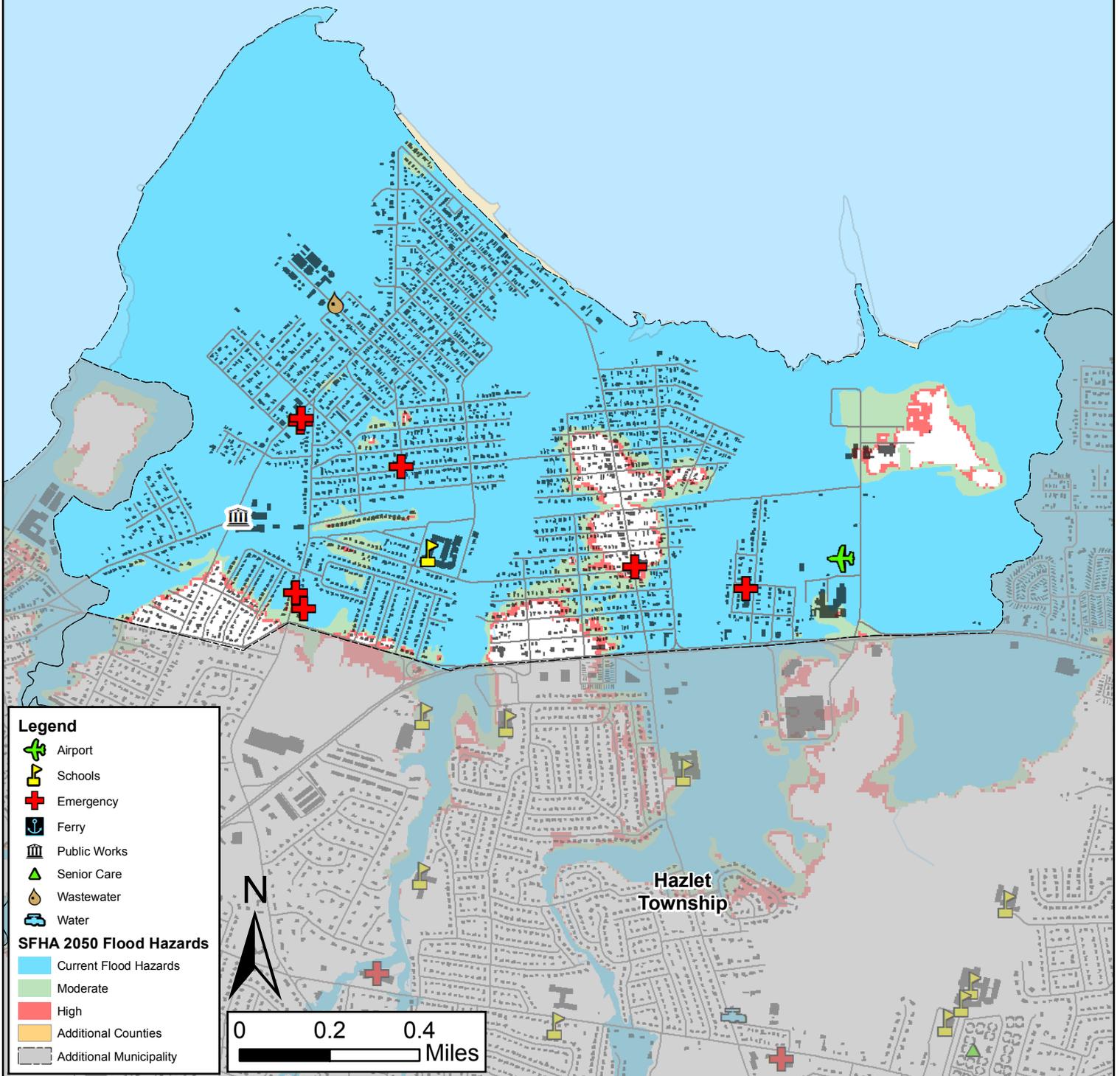
## SFHA 2050 Flood Hazards

- Current Flood Hazards
- Moderate
- High
- Additional Counties
- Additional Municipality



# Union Beach Borough

Atlantic  
Ocean

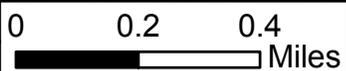


## Legend

- Airport
- Schools
- Emergency
- Ferry
- Public Works
- Senior Care
- Wastewater
- Water

## SFHA 2050 Flood Hazards

- Current Flood Hazards
- Moderate
- High
- Additional Counties
- Additional Municipality



# Upper Freehold Township

Mercer County

Millstone Township

Roosevelt Borough

Millstone Township

Allentown Borough

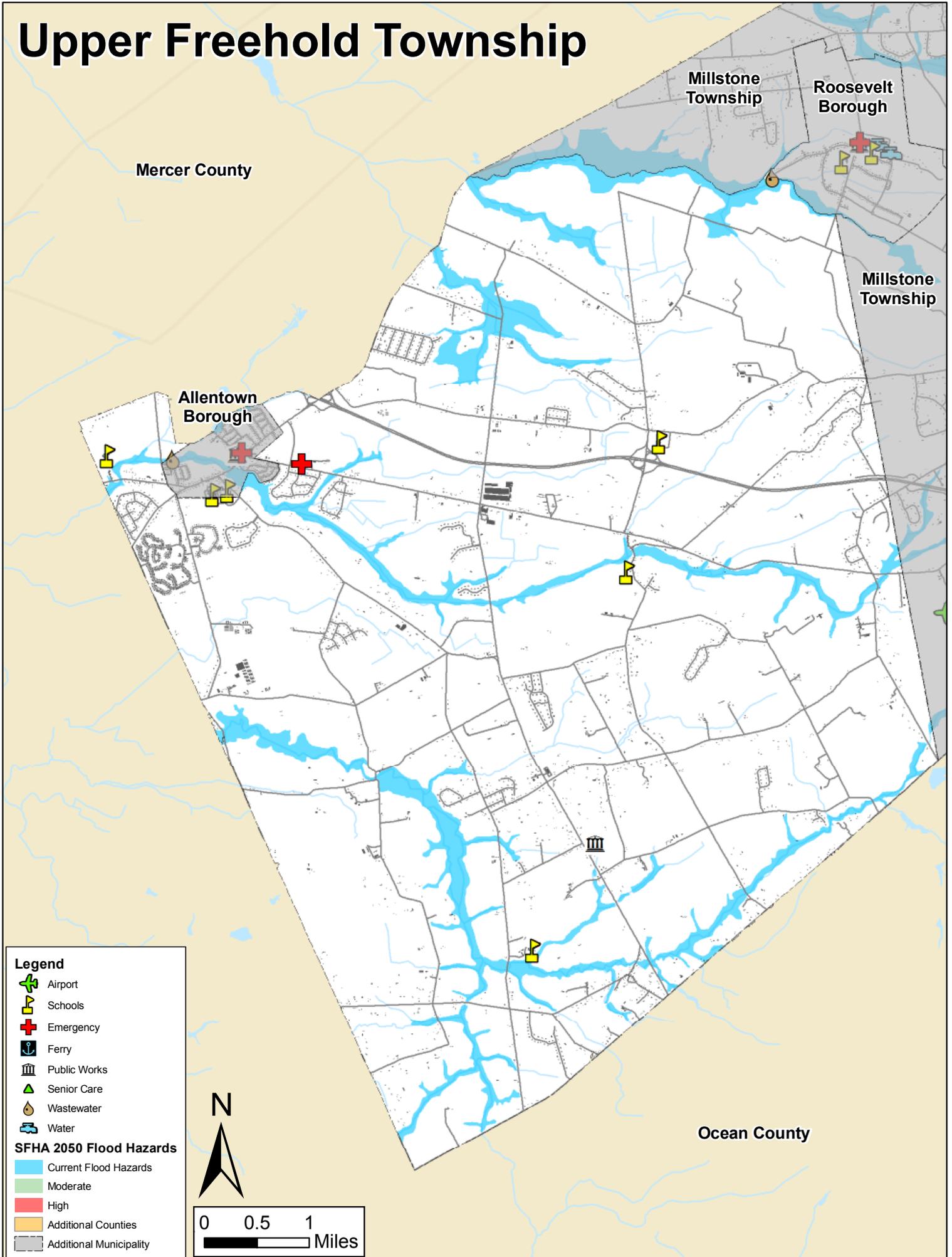
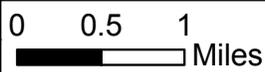
Ocean County

## Legend

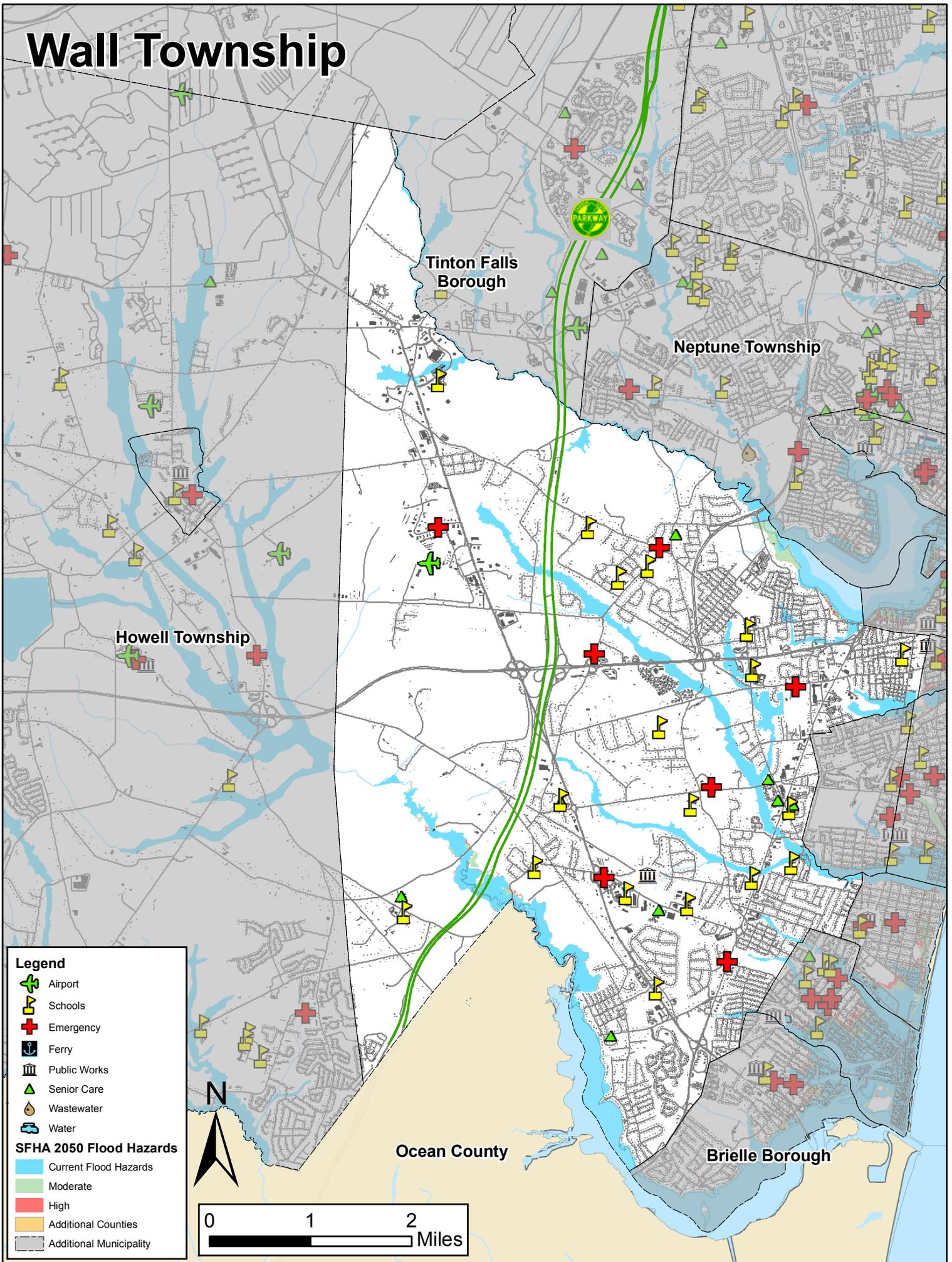
-  Airport
-  Schools
-  Emergency
-  Ferry
-  Public Works
-  Senior Care
-  Wastewater
-  Water

## SFHA 2050 Flood Hazards

-  Current Flood Hazards
-  Moderate
-  High
-  Additional Counties
-  Additional Municipality



# Wall Township

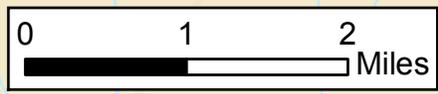


## Legend

- Airport
- Schools
- Emergency
- Ferry
- Public Works
- Senior Care
- Wastewater
- Water

## SFHA 2050 Flood Hazards

- Current Flood Hazards
- Moderate
- High
- Additional Counties
- Additional Municipality



# West Long Branch Borough

Oceanport Borough

Long Branch City

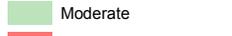
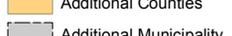
Eatontown Borough

Ocean Township

## Legend

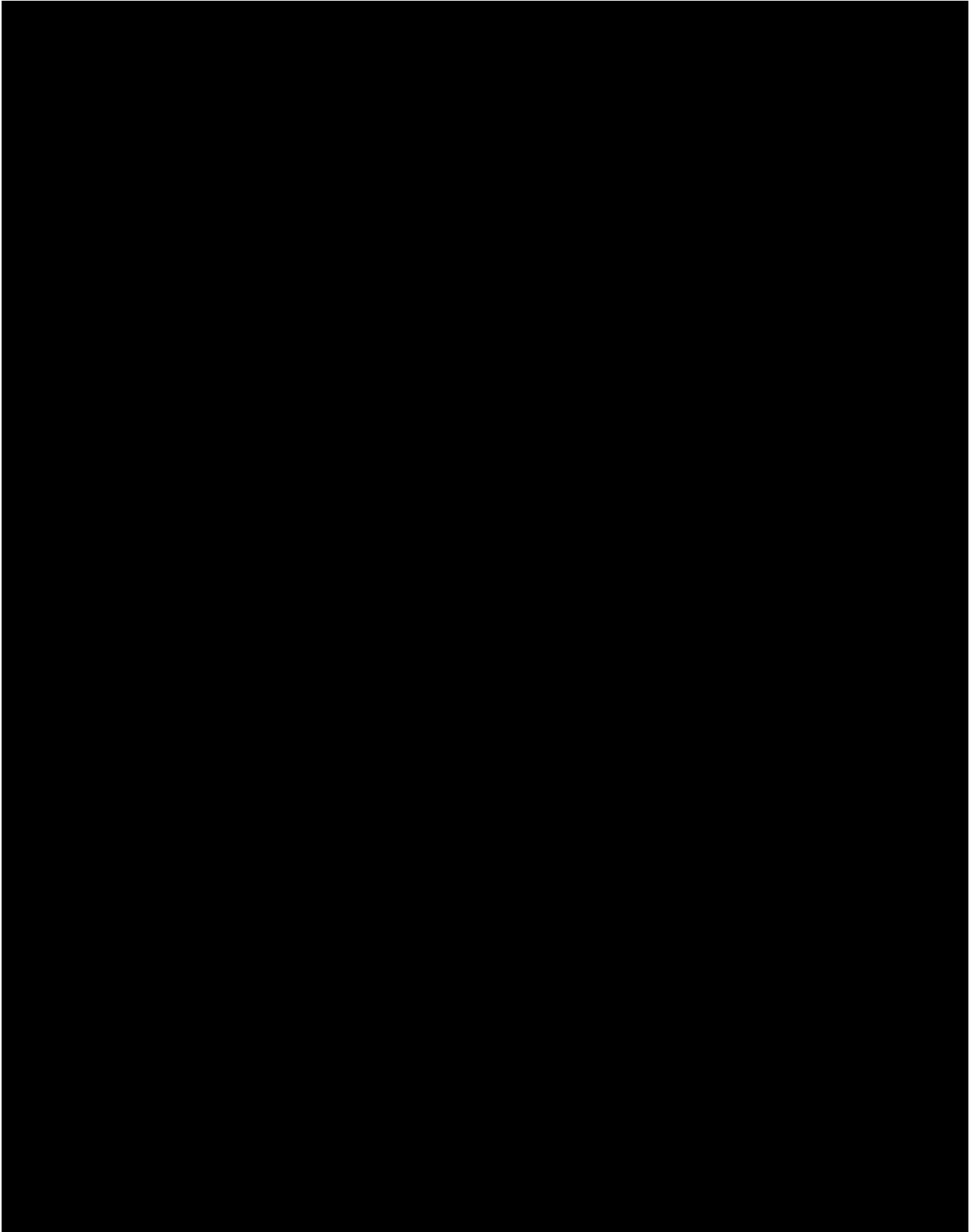
-  Airport
-  Schools
-  Emergency
-  Ferry
-  Public Works
-  Senior Care
-  Wastewater
-  Water

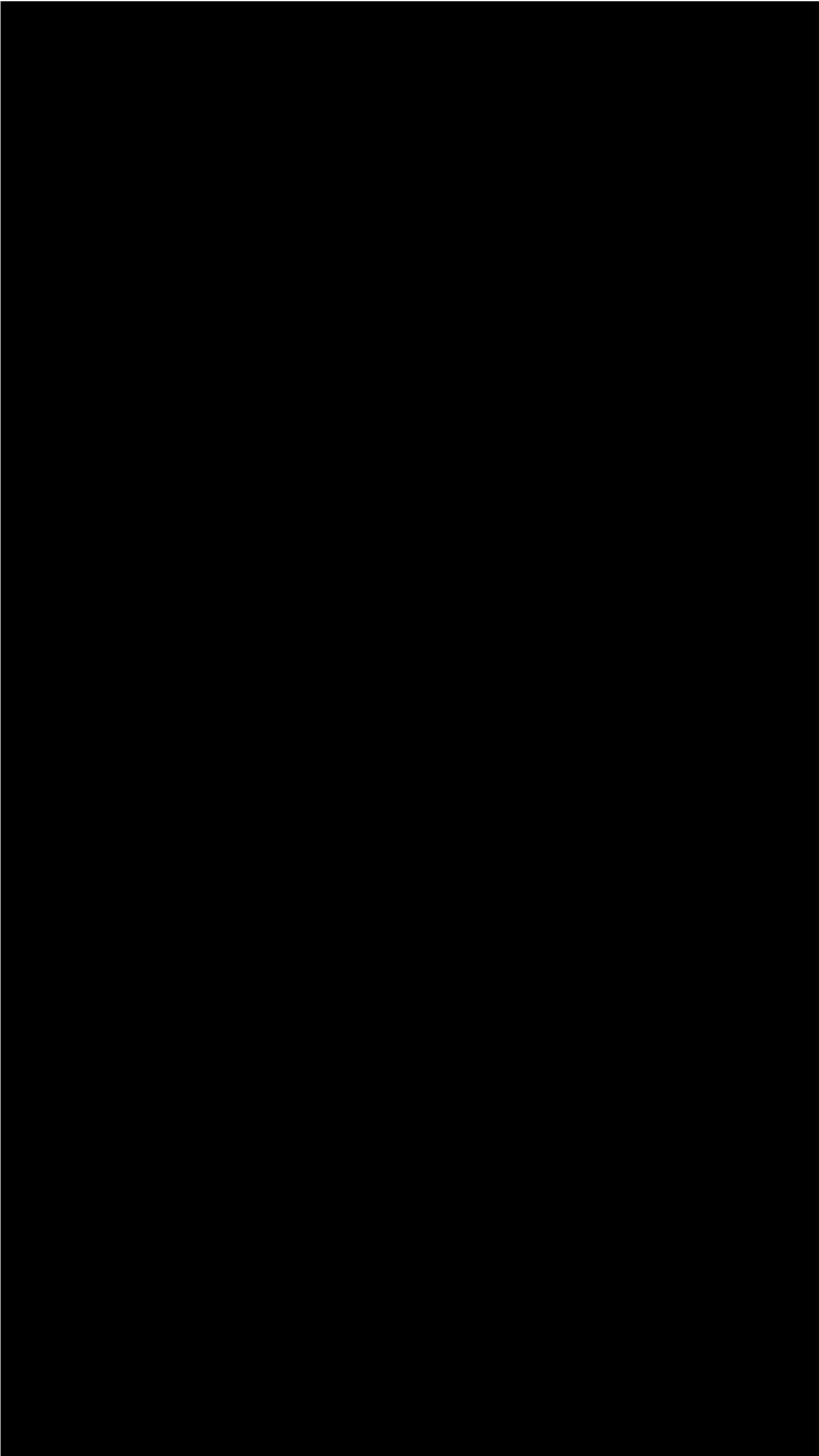
## SFHA 2050 Flood Hazards

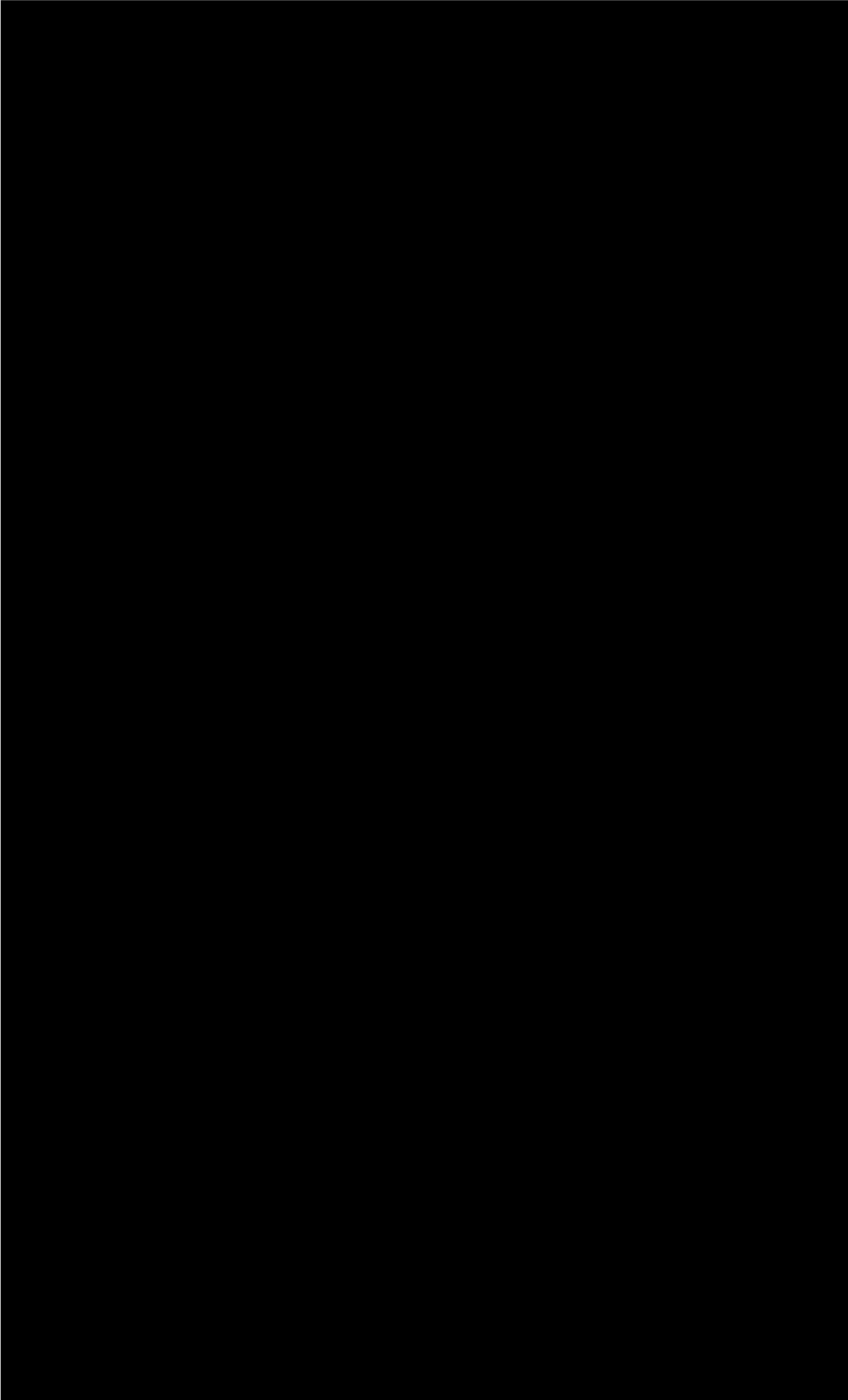
-  Current Flood Hazards
-  Moderate
-  High
-  Additional Counties
-  Additional Municipality

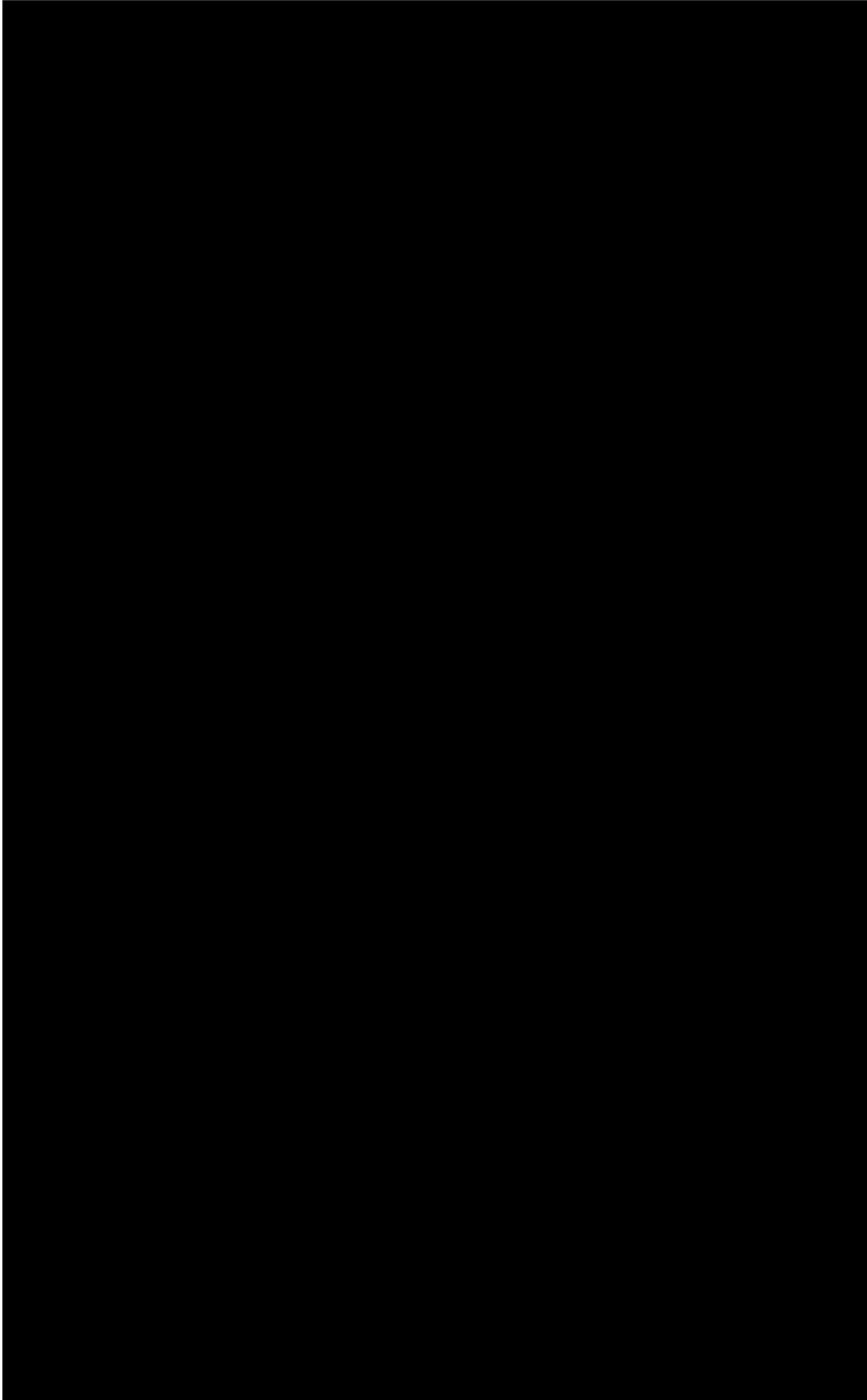


0 0.125 0.25  
Miles

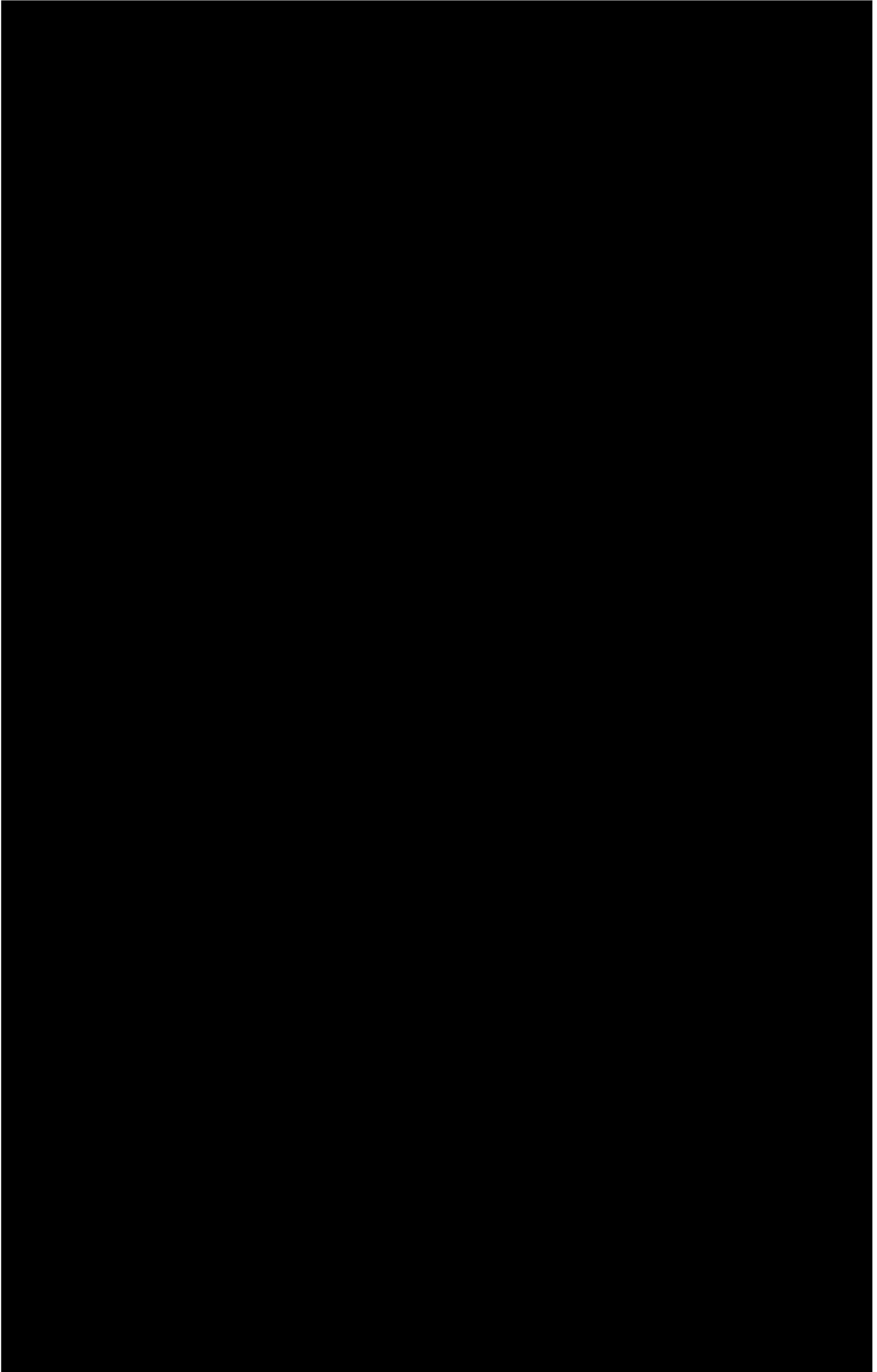


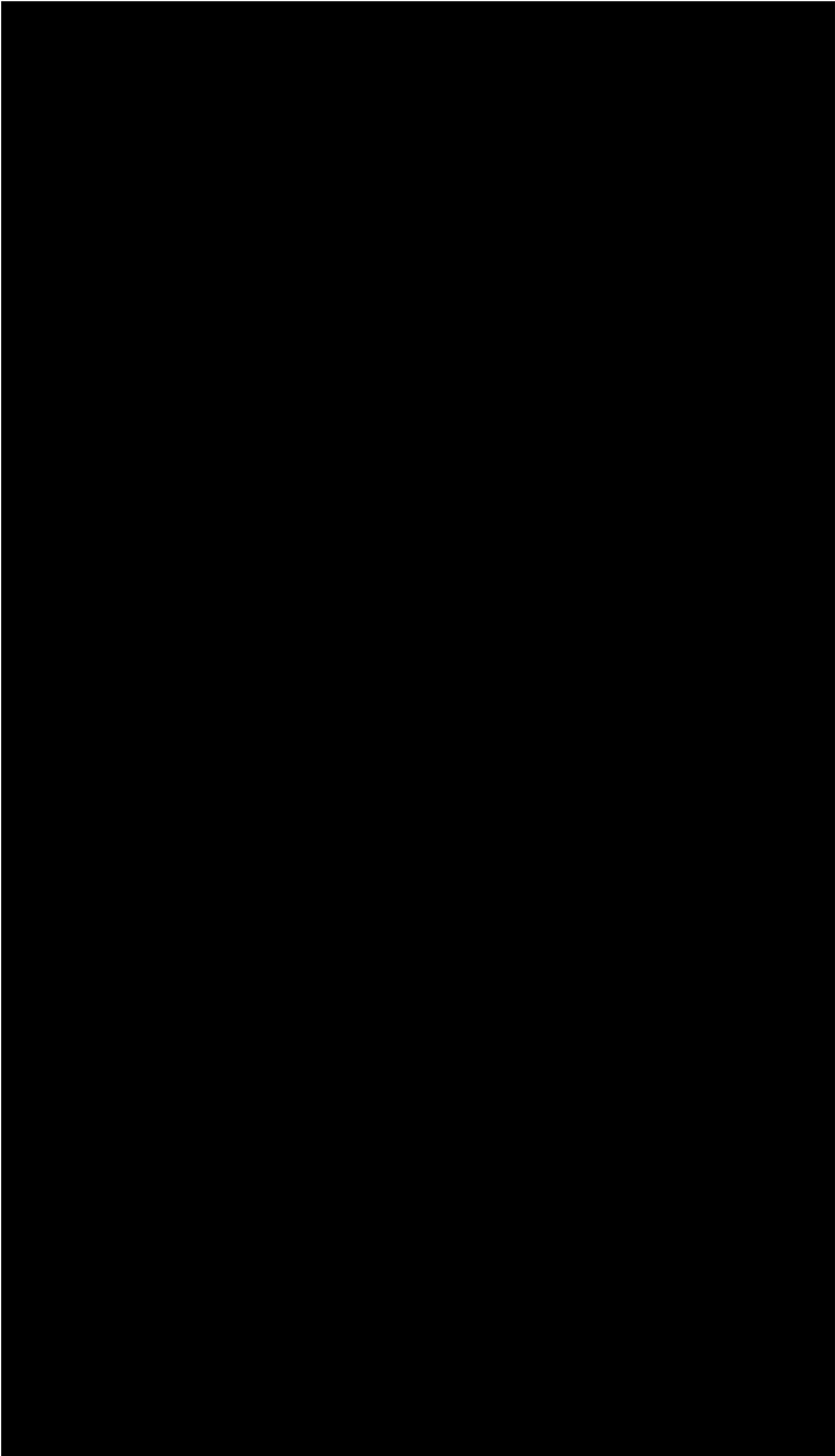


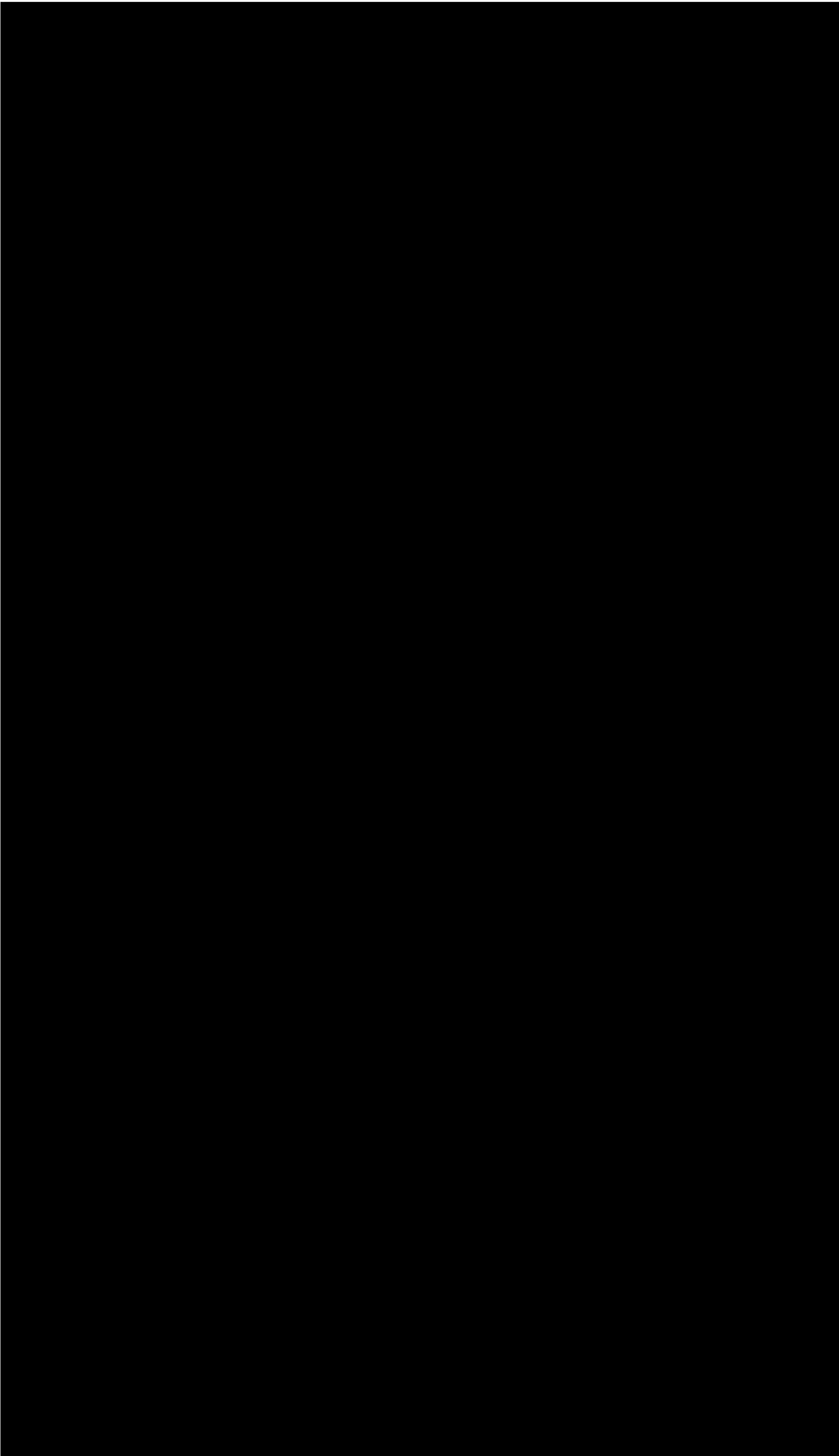


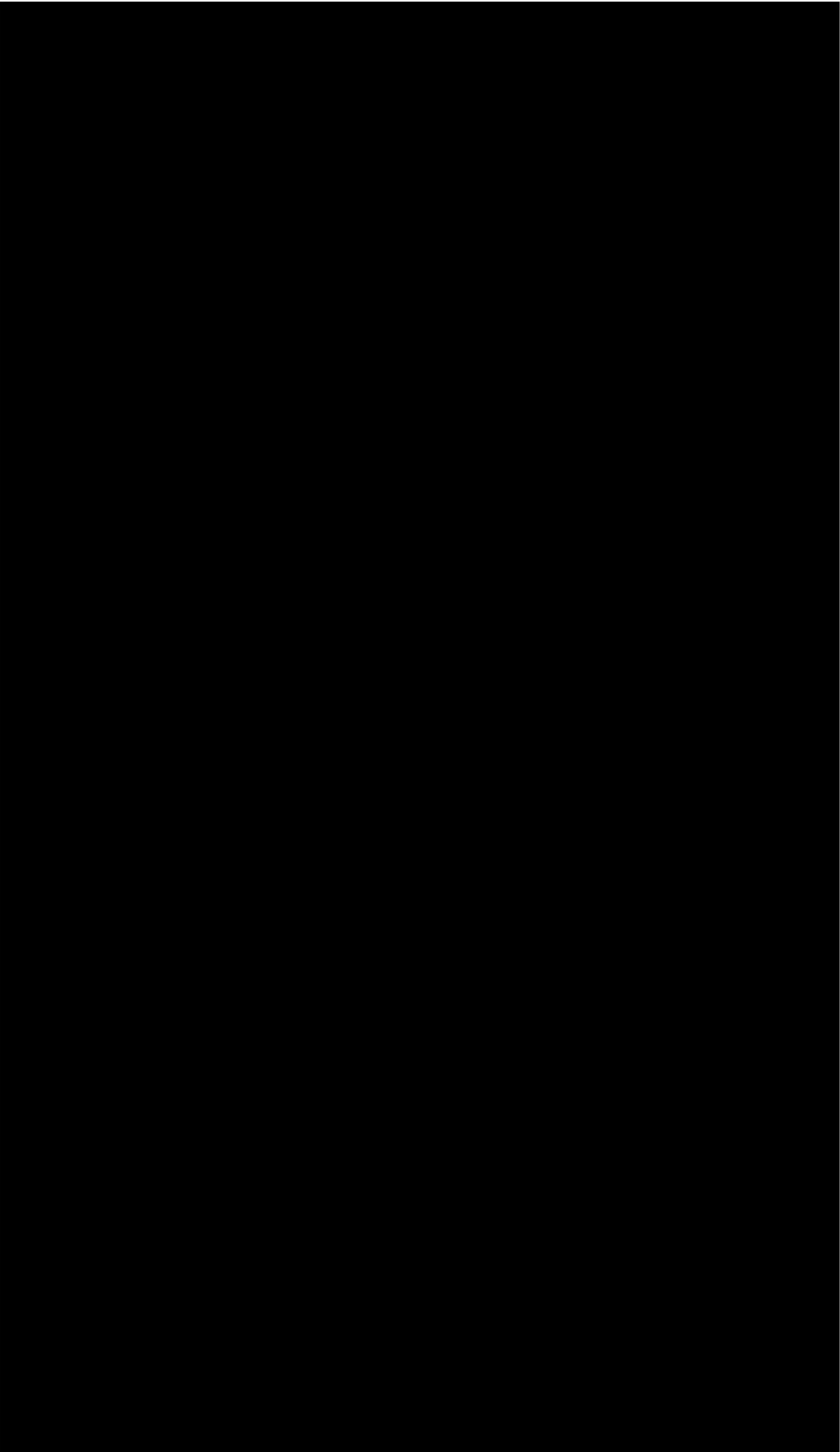


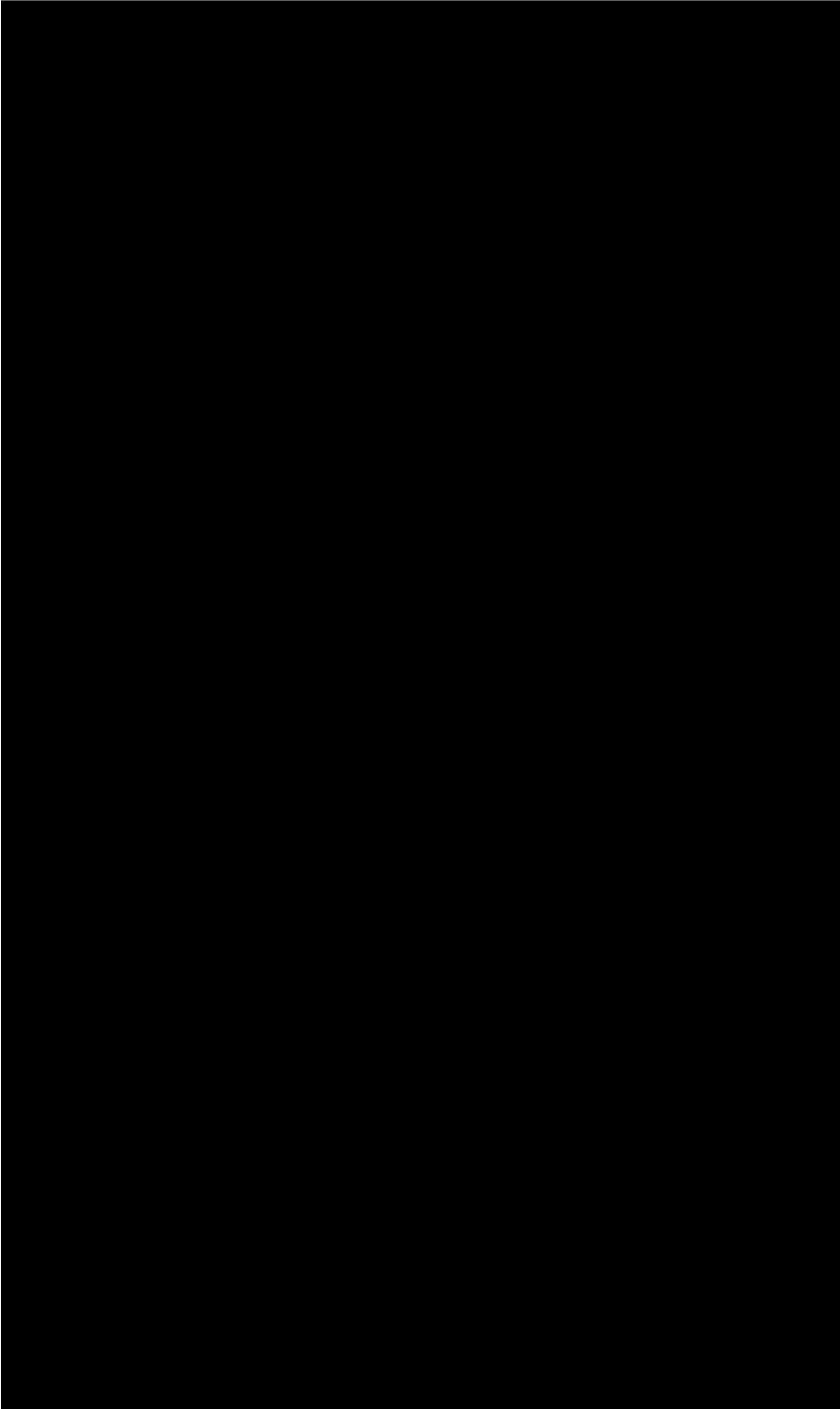


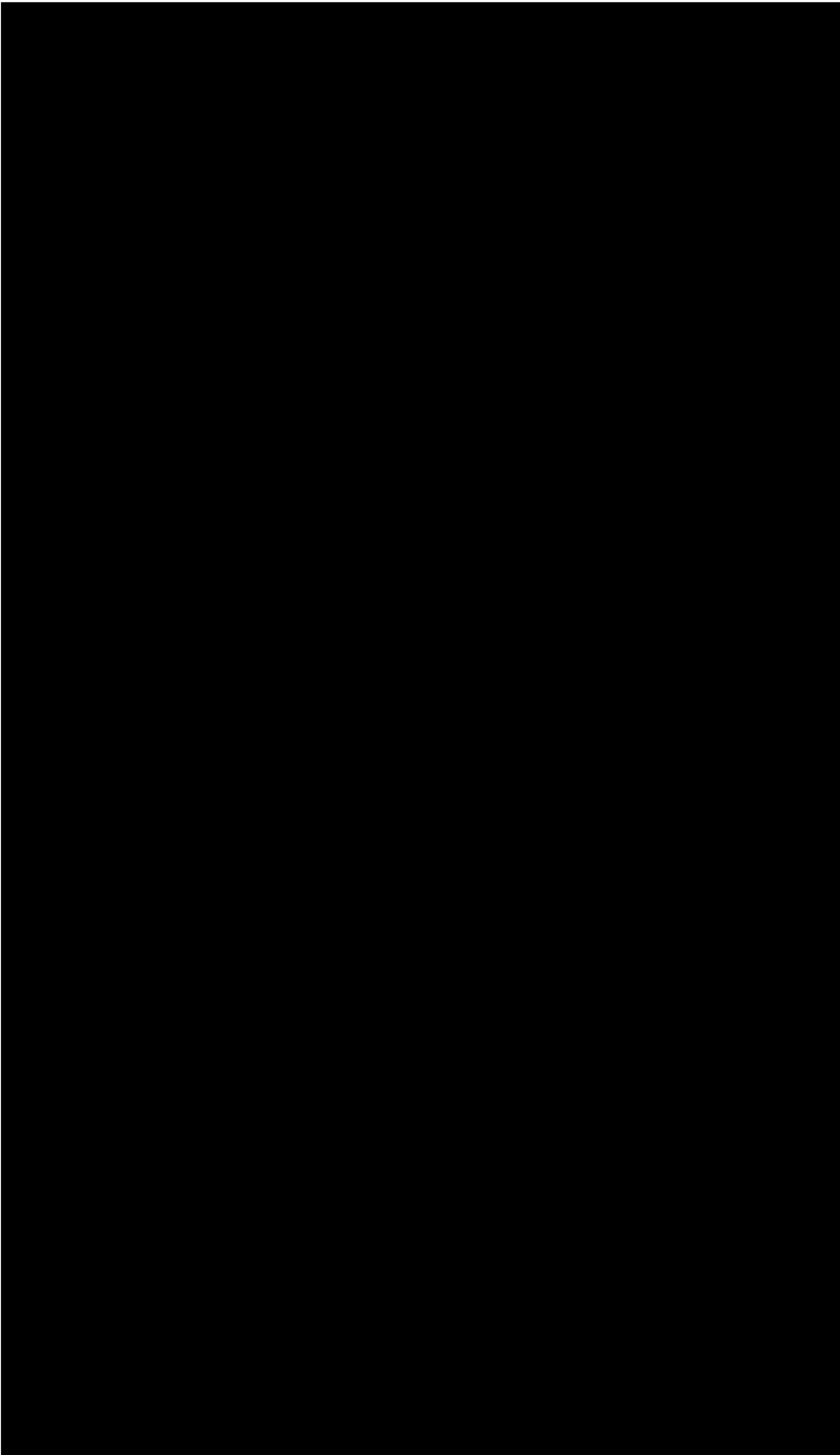


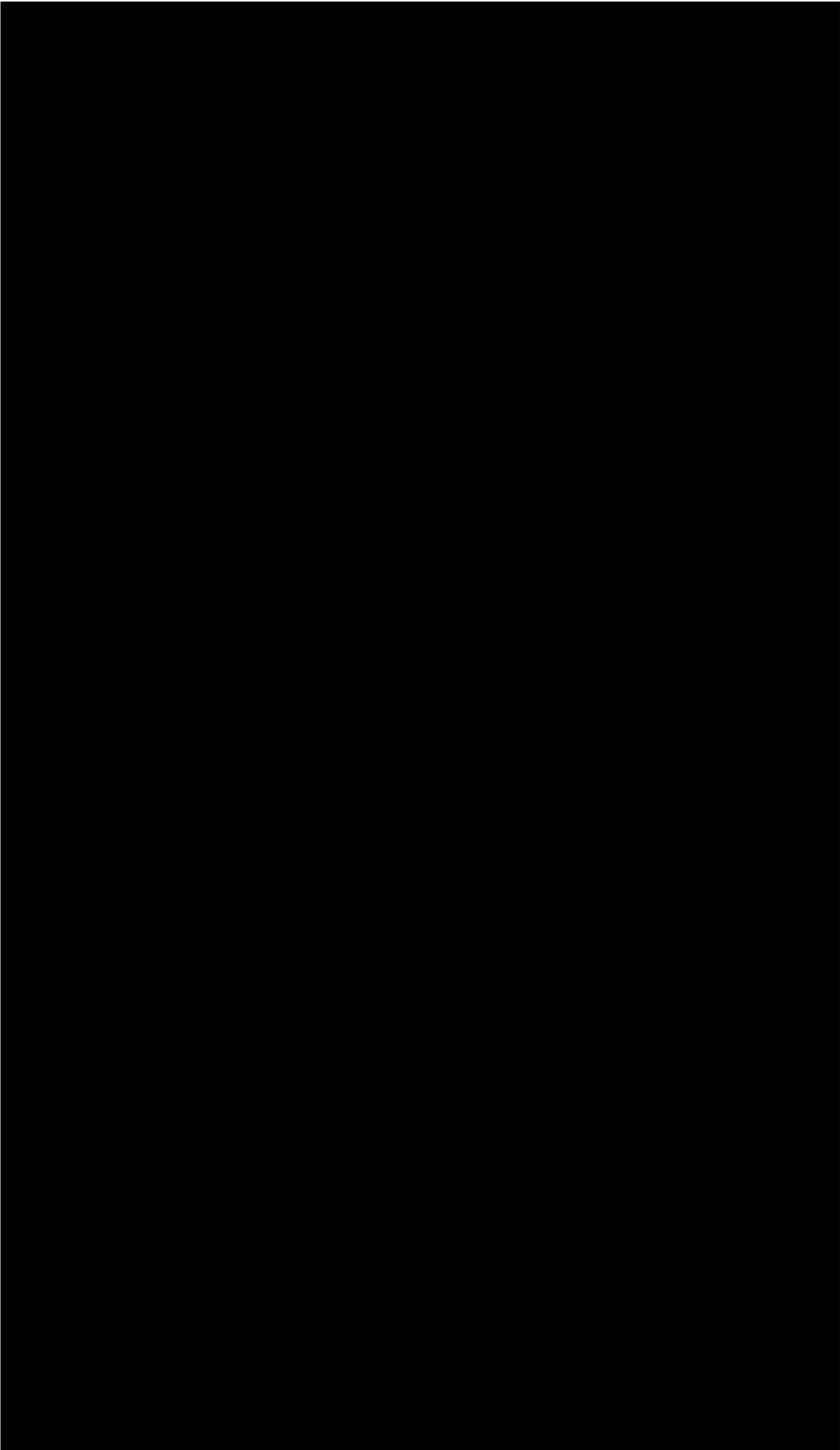


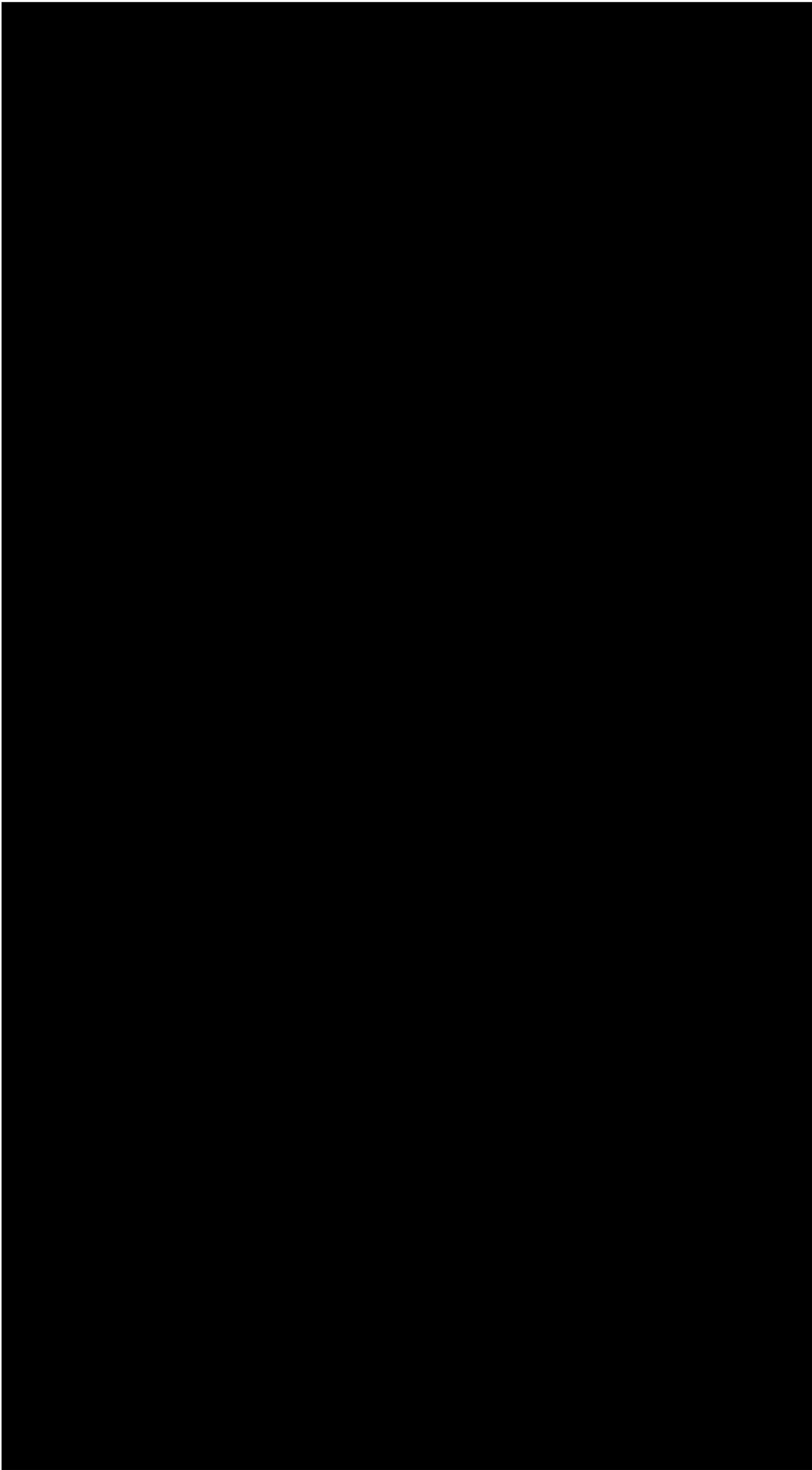


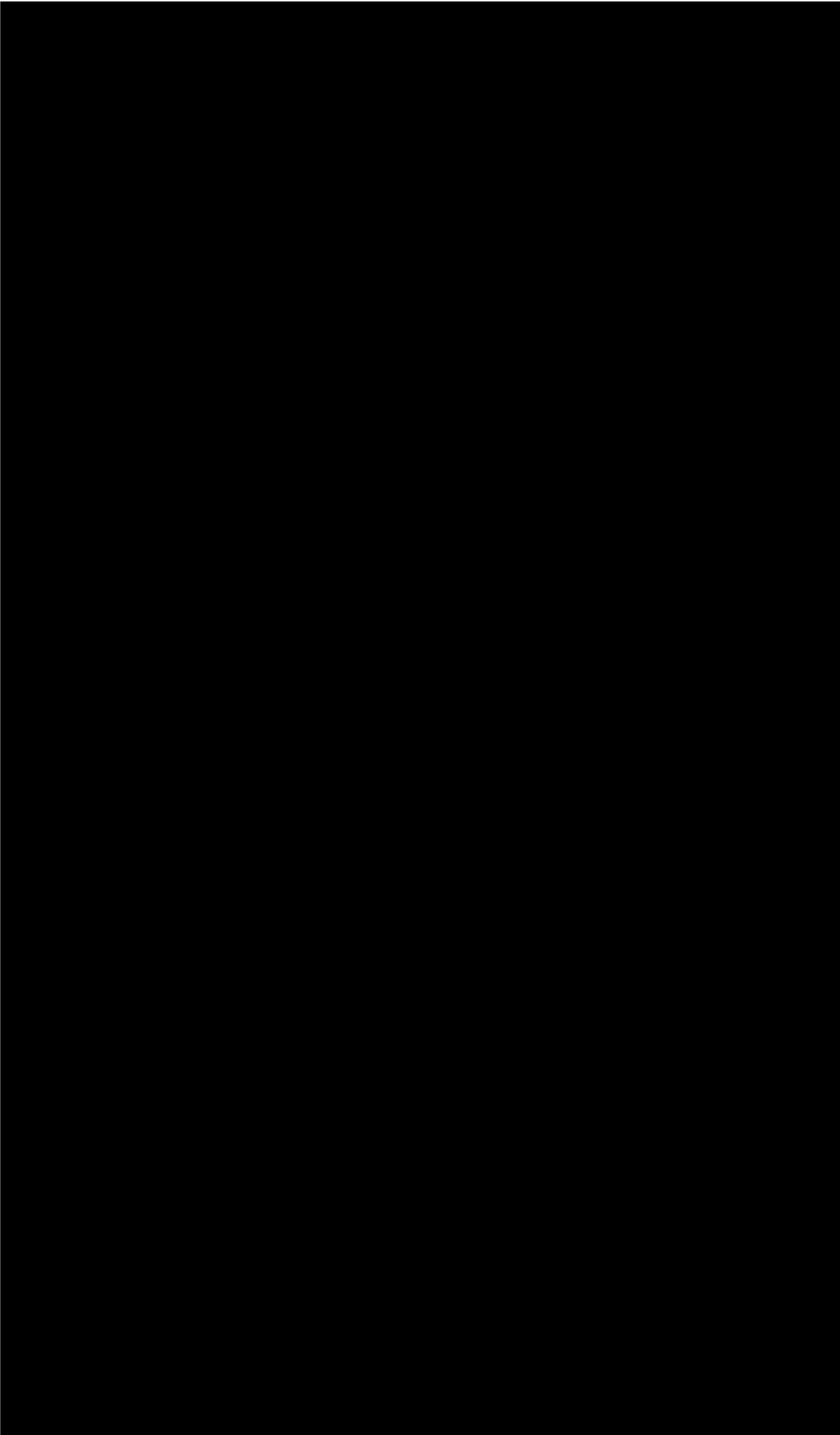


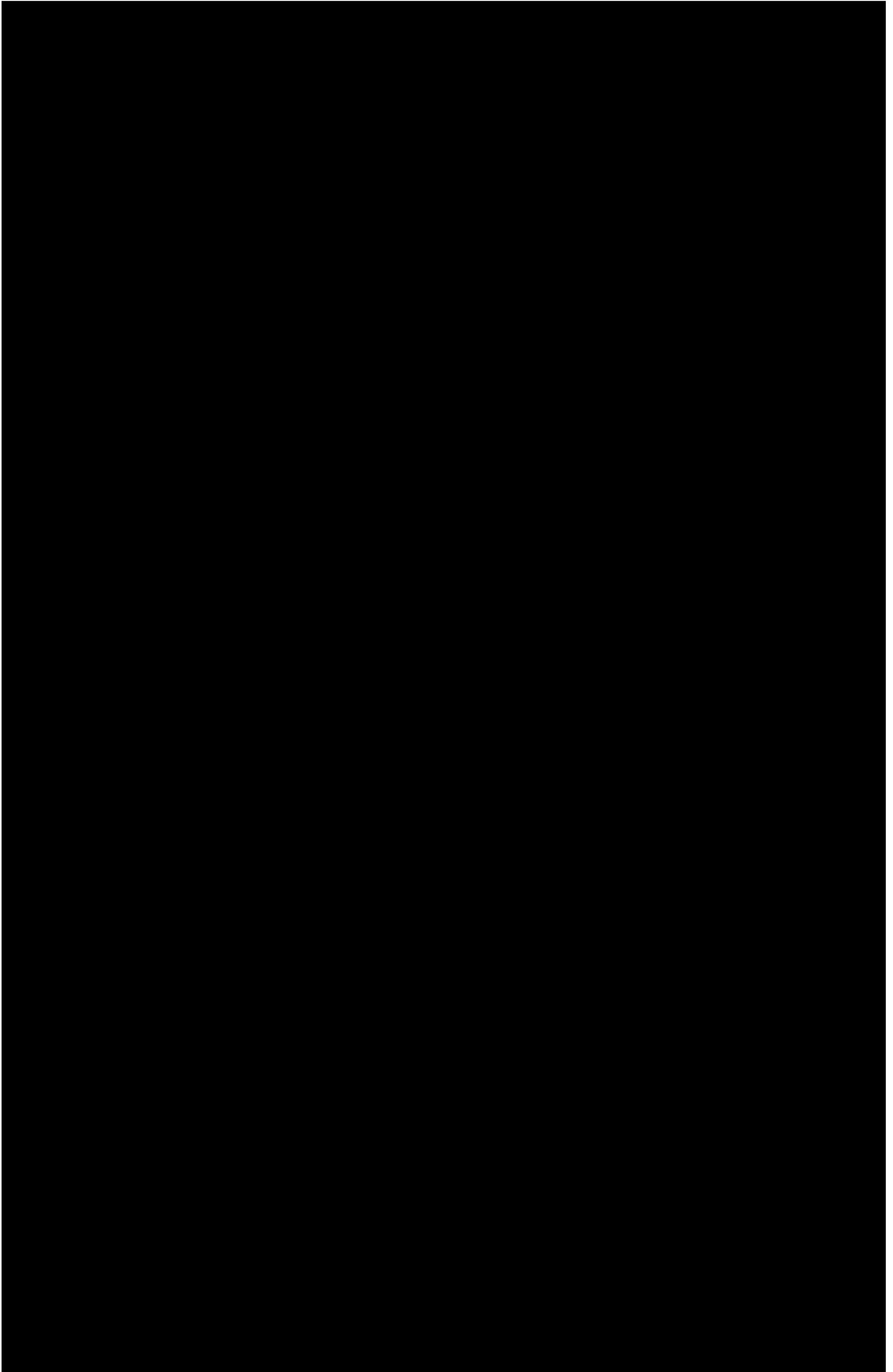






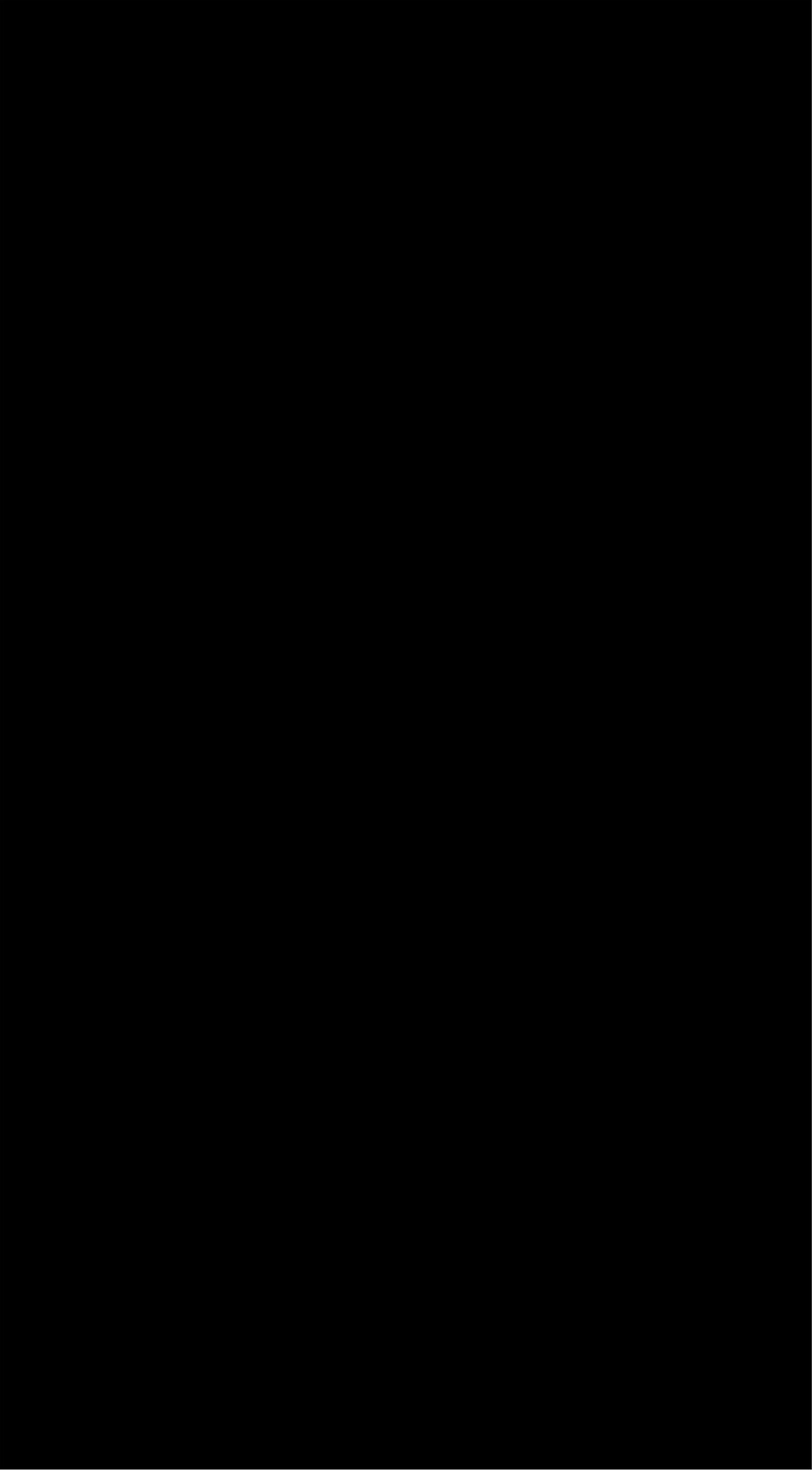


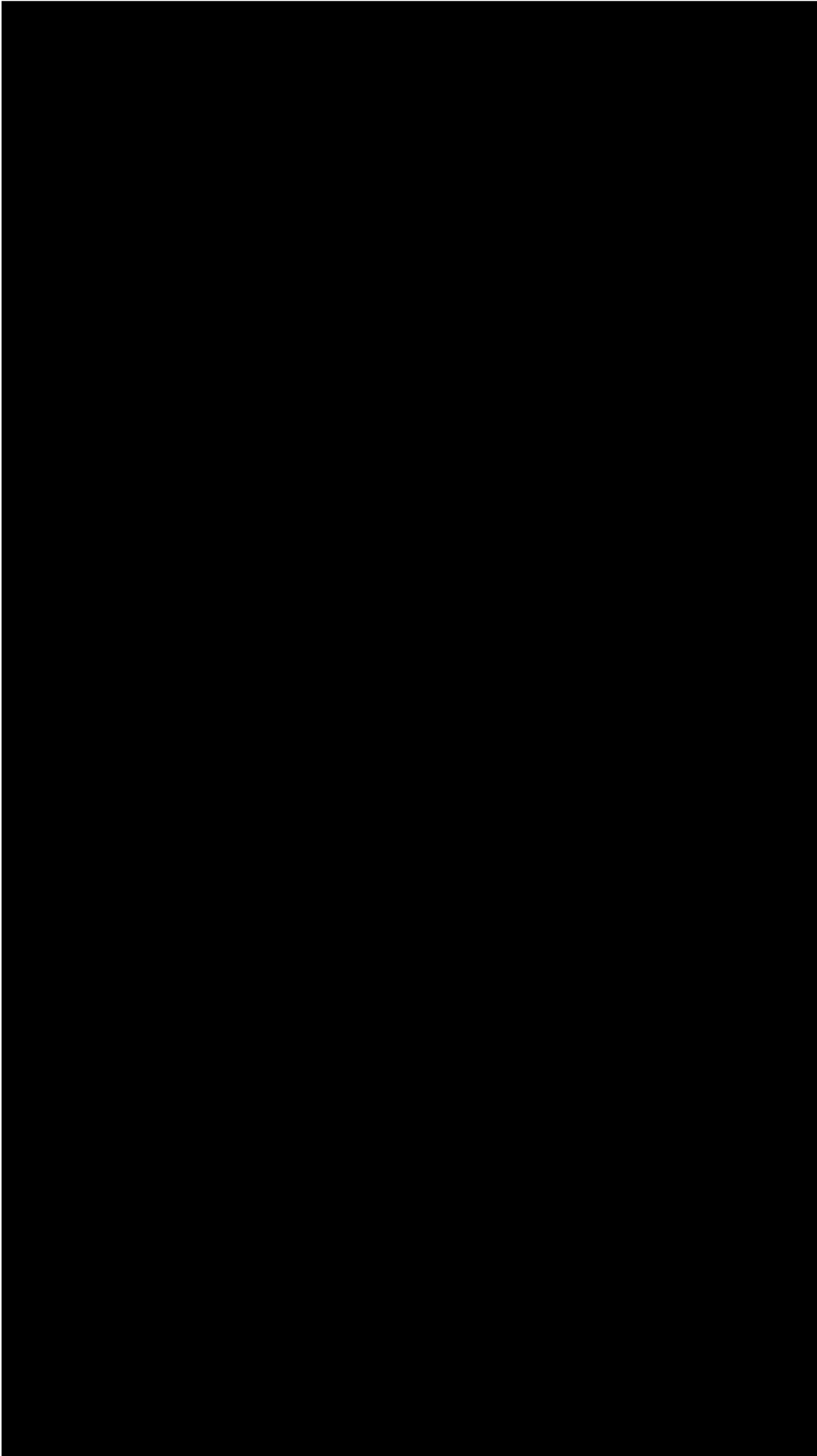


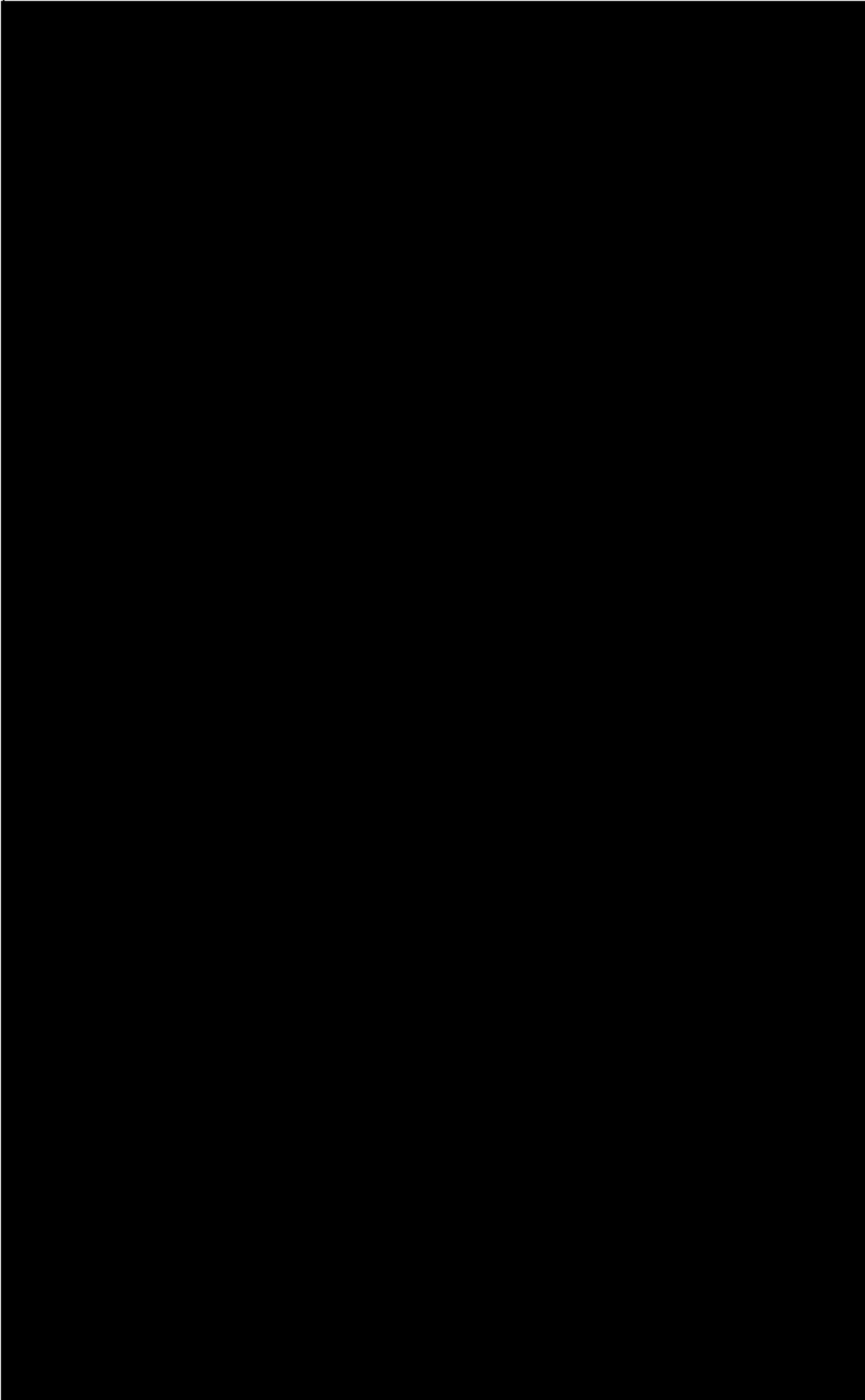


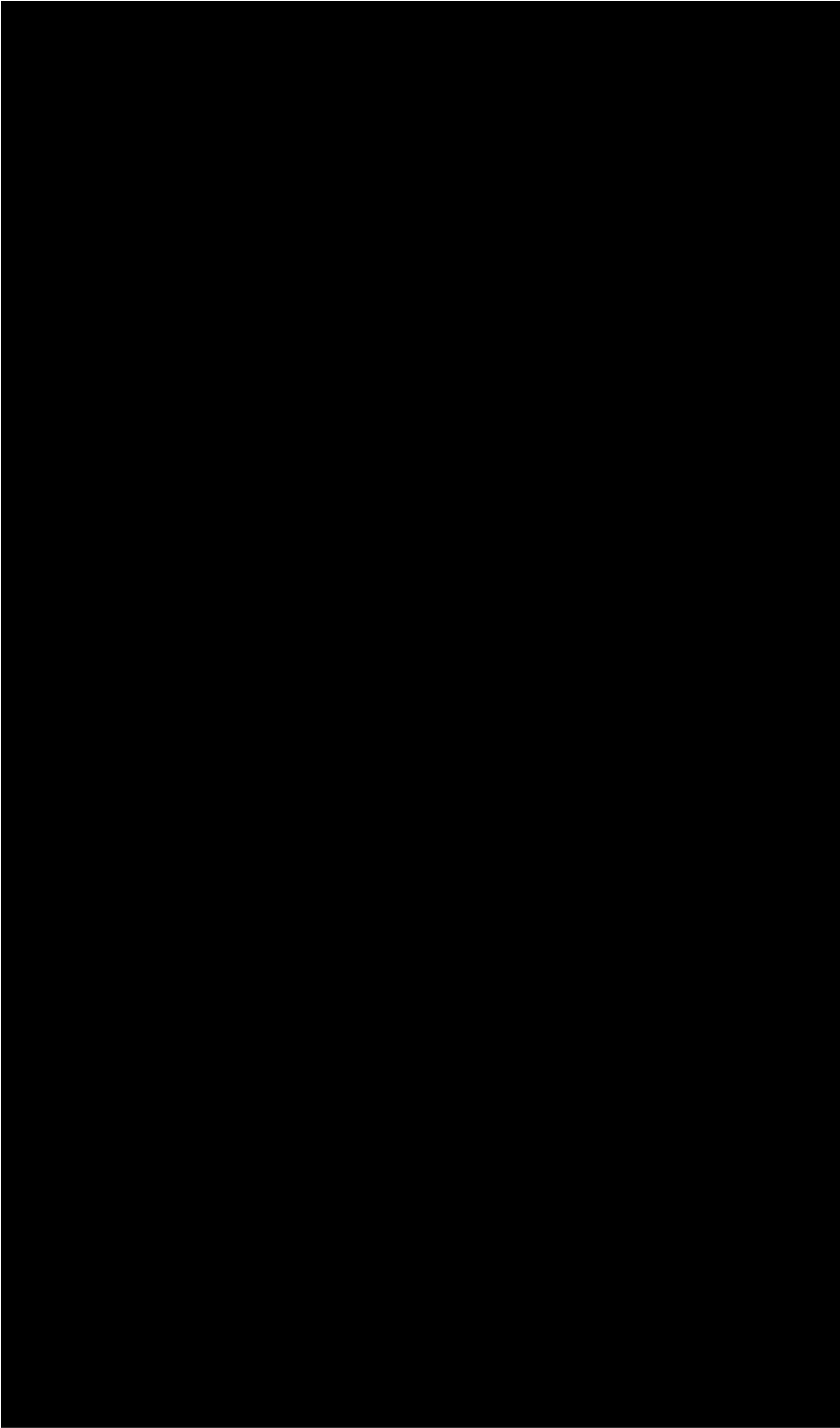




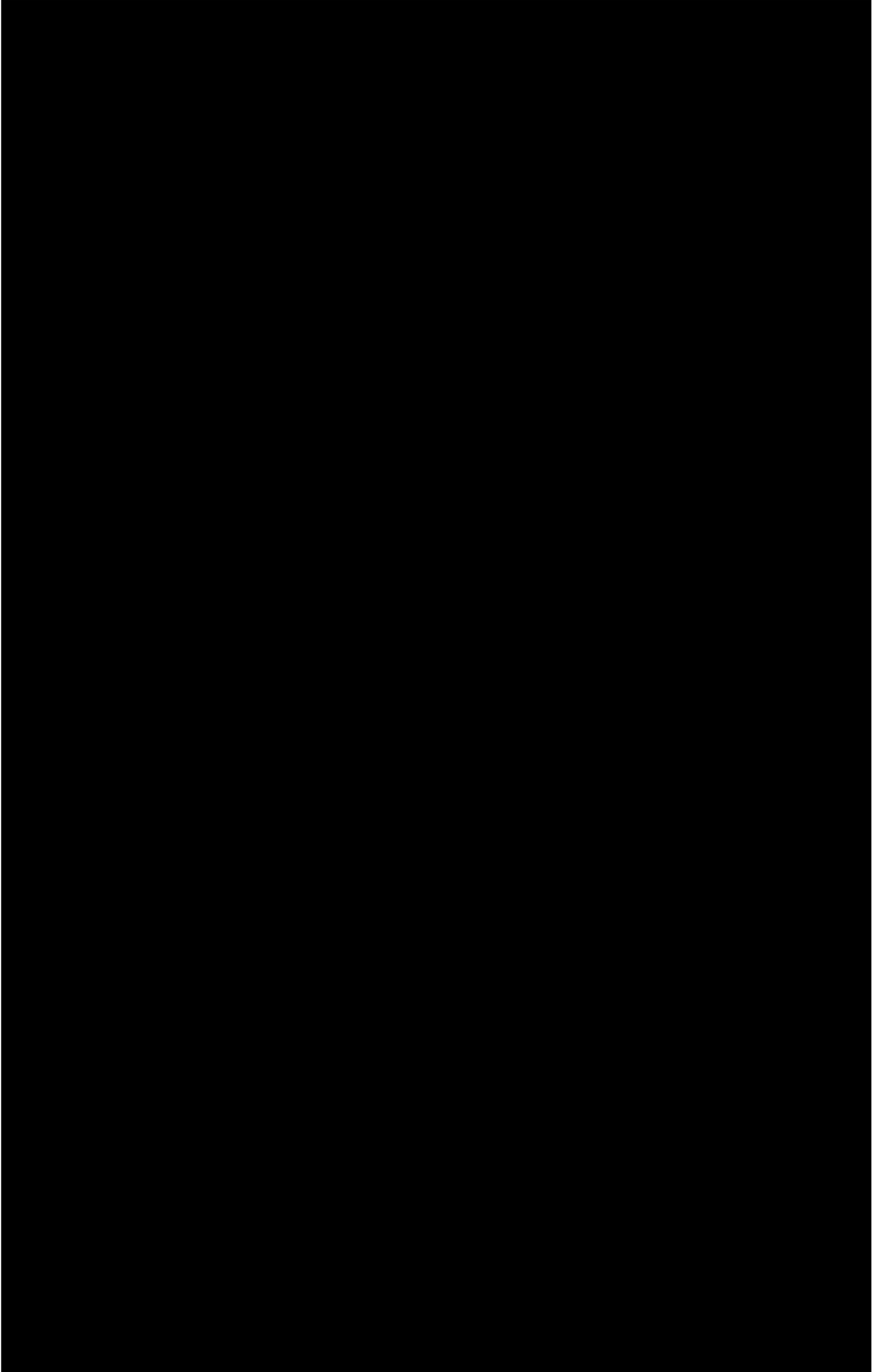


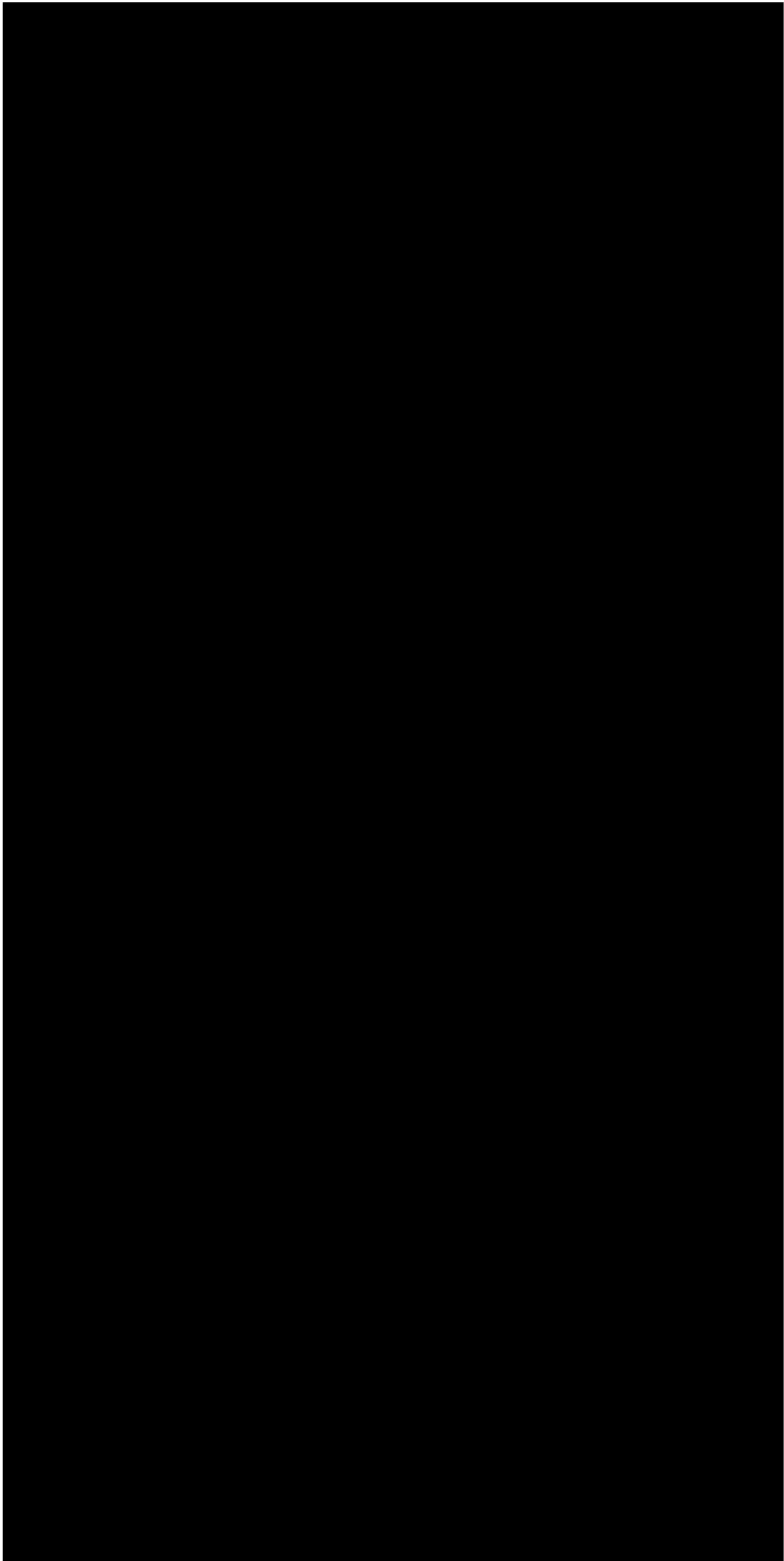












**APPENDIX 3C.2 – HISTORIC IN HAZARD AREAS**

Historic Area Name	Address	Municipality	A Zone Flooding	V Zone	Coastal Storm	Erosion	Dams	Landslide	Low to Mod Fire	High to Extreme Fire	High 2050 SFHA	Moderate 2050 SFHA
Allentown Railroad Station	Main Street	Allentown Borough										
Allentown Residential Historic District	Not Provided	Allentown Borough										
Allentown Historic District	Not Provided	Allentown Borough										
Allentown Mill	42 South Main Street	Allentown Borough										
Asbury Park Convention Hall	Ocean Avenue	Asbury Park City										
Asbury Park Post Office	801 Bangs Avenue	Asbury Park City										
George Wurt's Summer Home	306 Eighth Avenue	Asbury Park City										
Mayfair Theatre [Demolished]	Lake Avenue and Saint James Place	Asbury Park City										
Palace Amusements Building [Demolished]	201-207 Lake Avenue	Asbury Park City										
Steinbach/Cookman Building	Cookman Avenue	Asbury Park City										
Winsor Building	400-420 Main Street	Asbury Park City										
Bradley Beach Railroad Station	East of Memorial Parkway between L	Bradley Beach Borough										
Brielle Road Bridge over the Glimmer Glass (S.I. & A. #13000W9)	Brielle Road over Glimmer Glass	Brielle Borough										
Probasco-Dittmar Homestead	61 Bucks Mill Road	Colls Neck Township										
St. James Memorial Episcopal Church	69 Broad Street	Eatontown Borough										
Village Inn (Davis Tavern)	13 Main Street	Englishtown Borough										
Fisk Chapel	25 Cedar Avenue	Fair Haven Borough										
Court Street School	Court Street at Holmes Terrace	Freehold Borough										
General Clinton's Headquarters	150 West Main Street	Freehold Borough										
George Taylor House	74 Broadway	Freehold Borough										
St. Peter's Episcopal Church	31 Throckmorton Street	Freehold Borough										
Walker-Combs-Hartshorne House	189 Wemrock Road	Freehold Township										
Fort Hancock and Sandy Hook Proving Ground Historic District	Not Provided	Gateway Nat'l Rec Area										
Fort Hancock Life Saving Station	Gateway National Recreation Area	Gateway Nat'l Rec Area										
Sandy Hook Lighthouse	Sandy Hook	Gateway Nat'l Rec Area										
Twin Lights (Navesink Lighthouse)	Lighthouse Road	Highlands Borough										
Dr. Robert W. Cooke Medical Office	67 McCampbell Road	Holmdel Township										
Holmdel Dutch Reformed Church	41 Main Street	Holmdel Township										
Holmes-Hendrickson House	Longstreet Road, adjacent to Holmdel	Holmdel Township										
Horn Antenna	Off Garden State Parkway in Crawfo	Holmdel Township										
Kovenhoven House	Schank Road, east of NJ Route 34	Holmdel Township										
Longstreet Farm	Longstreet Road at Roberts Road	Holmdel Township										
Upper Meeting House of the Baptist Church of Middletown (Holm	40 Main Street	Holmdel Township										
Little Silver Railroad Station	Sycamore and Oceanport avenues	Little Silver Borough										
Parker Farm	235 Rumson Road	Little Silver Borough										
St. John's Episcopal Church	Little Silver Point Road	Little Silver Borough										
364 Cedar Avenue	364 Cedar Avenue	Long Branch City										
Church of the Presidents (St. James Church)	1260 Ocean Avenue	Long Branch City										
Elberon Railroad Station	Lincoln Avenue	Long Branch City										
Long Branch Post Office	60 Third Avenue	Long Branch City										
North Long Branch School (Primary No. 3; Church Street School)	469 Church Street	Long Branch City										
Anderson House [Demolished]	Route 33	Manalapan Township										
Freehold & Jamesburg Agricultural Railroad Historic District	Not Provided	Manalapan Township										
Monmouth Battlefield Historic District	Not Provided	Manalapan Township										
Squan Beach Life-Saving Station #9	124 Ocean Avenue	Manalapan Borough										
Old Kentuck	Pleasant Valley Road	Manasquan Borough										
Old Scots Burying Ground	Gordon's Corner Road	Marlborough Township										
Major John Burrows Mansion	94 Main Street	Matawan Borough										
Matawan Railroad Station	Between Main and Atlantic avenues	Matawan Borough										
All Saints Memorial Church Complex	Navesink, Stone Church Corner, Nav	Middletown Township										
Bowne House	Leonard Avenue	Middletown Township										
Christ Episcopal Church	92 Kings Highway	Middletown Township										
Grover House	940 West Front Street	Middletown Township										
Middletown Village Historic District	Not Provided	Middletown Township										
Navesink Historic District	Not Provided	Middletown Township										
Seabrook-Wilson House (Spy House)	119 Port Monmouth Road	Middletown Township										
Throckmorton Farm	Poricy Park, Oak Hill Road	Middletown Township										
Union Schoolhouse/School Number Nine	Middletown-Lincroft Road and Dwigh	Middletown Township										
Water Witch Club Casino	Not Provided	Middletown Township										
Clarksburg Methodist Episcopal Church	Corner of East Twin Road and West	Middletown Township										
Clarksburg School	512 Stagecoach Road (County Route	Millstone Township										
U.S. Life-Saving Station #4	524 Stagecoach Road (County Route	Millstone Township										
Ocean Grove Camp Meeting Association Historic District	Seacrest Road and Ocean Avenue	Monmouth Beach Borough										
Anthony Reckless Estate	Not Provided	Neptune Township										
Monmouth Boat Club	164 Broad Street	Red Bank Borough										
North Shrewsbury Ice Boat and Yacht Club	Union Street	Red Bank Borough										
Red Bank Passenger Station	9 Union Street	Red Bank Borough										
	Bridge and Monmouth streets	Red Bank Borough										

Historic Area Name	Address	Municipality	A Zone Flooding	V Zone	Coastal Storm	Erosion	Dams	Landslide	Low to Mod Fire	High to Extreme Fire	High 2050 SFHA	Moderate 2050 SFHA
River Street School	60 River Street	Red Bank Borough										
Robert White House	20 South Street	Red Bank Borough										
Shrewsbury Township Hall	51 Monmouth Street	Red Bank Borough										
T. Thomas Fortune House	94 West Bergen Place	Red Bank Borough										
Jersey Homesteads Historic District	Not Provided	Roosevelt Borough	•						•			
First Presbyterian Church of Oceanic	East River Road at Park Avenue	Rumson Borough			•			•	•			
Lauriston	91 Rumson Road	Rumson Borough			•			•	•			
Saint George's-by-the-River Episcopal Church	7 Lincoln Avenue	Rumson Borough	•			•		•	•		•	•
Seabright Lawn Tennis & Cricket Club	Rumson Road at Tennis Court Lane	Rumson Borough						•	•			•
Allen House	Broad Street and Sycamore Avenue	Shrewsbury Borough										
Christ Church, Shrewsbury	Broad Street and Sycamore Avenue	Shrewsbury Borough							•			
Shrewsbury Historic District	Not Provided	Shrewsbury Borough							•			
Wardell House	419 Sycamore Avenue	Shrewsbury Borough							•			
Audennied Cottage (Normandy Inn)	21 Tuttle Avenue	Spring Lake Borough			•						•	
Frederick A. Duggan Memorial First Aid and Emergency Squad B	311 Washington Avenue	Spring Lake Borough			•							
Holy Trinity Episcopal Church	Monmouth and Third avenues	Spring Lake Borough			•							
Martin Maloney Cottage	101 Morris Avenue	Spring Lake Borough			•							
Old Mill at Tinton Falls	1205 Sycamore Avenue	Tinton Falls Borough	•						•			
Tinton Falls Historic District	Not Provided	Tinton Falls Borough	•						•			
Arneytown Historic District	Not Provided	Upper Freehold Township							•			
Coward-Hendrickson House	Burlington Path Road	Upper Freehold Township							•			
Coward-Smith House	Burlington Path Road	Upper Freehold Township							•			
Imlaystown Historic District	Not Provided	Upper Freehold Township	•						•			
Merino Hill House and Farm	Allentown-Clarksburg Road (County	Upper Freehold Township							•			
Salter's Mill	Imlaystown-Davis Station Road	Upper Freehold Township	•						•			
Upper Freehold Baptist Meeting (Old Yellow Meetinghouse)	Yellow Meetinghouse and Red Valley	Upper Freehold Township							•			
Wainford Historic District	Not Provided	Upper Freehold Township							•			
Aljgor-Barkalow Homestead	New Bedford Road	Wall Township							•			
Camp Evans Historic District	Not Provided	Wall Township			•				•			•
Manasquan Friends Meetinghouse	NJ Route 35 at Manasquan Circle	Wall Township							•			
Marconi Building	Marconi Road	Wall Township										
Project Diana Site	Not Provided	Wall Township							•			
MacGregor-Tallman House	407 Monmouth Road	West Long Branch Borough							•			
Murry Guggenheim Mansion	Cedar and Norwood avenues	West Long Branch Borough							•			
Shadow Lawn	Cedar and Norwood avenues	West Long Branch Borough	•						•			

**APPENDIX 3D.1 – MONMOUTH COUNTY DEMOGRAPHICS**

Table 3D.1-1: Monmouth County Land Use by Jurisdiction ..... 3d.1-1  
Table 3D.1-2: Population Projections by Jurisdiction (2010-2040) ..... 3d.1-3  
Table 3D.1-3: New, Privately Owned Residential Housing Units Authorized (2009-2012) ..... 3d.1-5  
Table 3D.1-4: Existing Municipal Open Space and Targets by Jurisdiction, 2005 ..... 3d.1-6

Table 3d.1-1

Monmouth County Land Use by Jurisdiction

Jurisdiction	Total Acreage		Commercial & Mixed Use		Agricultural, Orchards & Nurseries		Open Space, Woodland & Brush		Residential	
	Acres	%	Acres	%	Acres	%	Acres	%	Acres	%
Aberdeen, Township of	3,588		500	13.9%	14	0.4%	1,314	36.6%	1,653	46.1%
Allenhurst, Borough of	162		20	12.4%	0	0.0%	13	8.2%	123	75.5%
Allentown, Borough of	399		41	10.2%	11	2.8%	112	28.2%	217	54.6%
Asbury Park, City of	955		221	23.1%	0	0.0%	132	13.8%	545	57.1%
Atlantic Highlands, Borough of	782		135	17.2%	0	0.0%	141	18.0%	506	64.8%
Avon-By-The-Sea, Borough of	292		52	17.7%	0	0.0%	14	4.7%	196	67.0%
Belmar, Borough of	888		154	17.4%	0	0.0%	66	7.4%	448	50.4%
Bradley Beach, Borough of	382		74	19.2%	0	0.0%	19	4.9%	277	72.5%
Brielle, Borough of	1,521		91	5.9%	0	0.0%	259	17.1%	779	51.2%
Colts Neck, Township of	20,713		934	4.5%	3,600	17.4%	10,283	49.6%	5,277	25.5%
Deal, Borough of	759		66	8.7%	0	0.0%	74	9.8%	614	80.9%
Eatontown, Borough of	3,765		968	25.7%	16	0.4%	1,414	37.5%	1,326	35.2%
Englishtown, Borough of	373		64	17.2%	9	2.5%	120	32.3%	165	44.1%
Fair Haven, Borough of	1,345		71	5.3%	0	0.0%	119	8.8%	839	62.4%
Farmingdale, Borough of	338		62	18.3%	10	3.1%	105	31.0%	161	47.6%
Freehold, Borough of	1,249		292	23.4%	2	0.1%	202	16.2%	753	60.3%
Freehold, Township of	24,673		1,385	5.6%	2,662	10.8%	13,342	54.1%	7,006	28.4%
Gateway National Recreation Area	1,763		172	9.8%	0	0.0%	1,515	85.9%	12	0.7%
Hazlet, Township of	3,682		553	15.0%	16	0.4%	1,133	30.8%	1,926	52.3%
Highlands, Borough of	463		96	20.8%	0	0.0%	84	18.1%	281	60.7%
Holmdel, Township of	11,419		792	6.9%	1,761	15.4%	4,161	36.4%	4,547	39.8%
Howell, Township of	39,425		2,162	5.5%	4,359	11.1%	22,872	58.0%	8,904	22.6%
Interlaken, Borough of	247		1	0.4%	0	0.0%	26	10.6%	186	75.2%
Keansburg, Borough of	748		99	13.2%	0	0.0%	133	17.8%	496	66.3%
Keyport, Borough of	937		234	24.9%	0	0.0%	234	24.9%	426	45.5%
Lake Como, Borough of	158		24	15.3%	0	0.0%	8	5.1%	119	75.1%
Little Silver, Borough of	2,133		206	9.7%	9	0.4%	289	13.6%	1,239	58.1%
Loch Arbour, Village of	77		5	6.8%	0	0.0%	6	7.4%	44	57.3%
Long Branch, City of	3,408		566	16.6%	0	0.0%	361	10.6%	2,299	67.5%
Manalapan, Township of	19,777		912	4.6%	3,191	16.1%	8,052	40.7%	7,421	37.5%
Manasquan, Borough of	983		135	13.7%	0	0.0%	184	18.7%	566	57.6%
Marlboro, Township of	19,676		1,125	5.7%	1,850	9.4%	8,739	44.4%	7,791	39.6%
Matawan, Borough of	1,510		173	11.5%	0	0.0%	372	24.6%	861	57.0%
Middletown, Township of	25,829		2,409	9.3%	982	3.8%	9,849	38.1%	11,176	43.3%
Millstone, Township of	23,910		316	1.3%	6,279	26.3%	11,960	50.0%	4,917	20.6%
Monmouth Beach, Borough of	1,243		90	7.2%	0	0.0%	71	5.7%	458	36.8%
Neptune City, Borough of	563		160	28.4%	0	0.0%	48	8.6%	355	63.1%

**Table 3d.1-1  
Monmouth County Land Use by Jurisdiction**

Jurisdiction	Total Acreage	Commercial & Mixed Use		Agricultural, Orchards & Nurseries		Open Space, Woodland & Brush		Residential	
		Acres	%	Acres	%	Acres	%	Acres	%
Neptune, Township of	5,642	860	15.2%	21	0.4%	1,877	33.3%	2,539	45.0%
Ocean, Township of	7,023	834	11.9%	24	0.3%	2,443	34.8%	3,614	51.5%
Oceanport, Borough of	2,431	306	12.6%	12	0.5%	857	35.2%	837	34.4%
Red Bank, Borough of	1,374	369	26.8%	0	0.0%	72	5.3%	658	47.9%
Roosevelt, Borough of	1,251	12	1.0%	323	25.8%	717	57.3%	196	15.6%
Rumson, Borough of	4,555	135	3.0%	15	0.3%	727	16.0%	2,376	52.2%
Sea Bright, Borough of	651	100	15.4%	0	0.0%	120	18.5%	123	18.8%
Sea Girt, Borough of	675	95	14.1%	0	0.0%	169	25.0%	386	57.2%
Shrewsbury, Borough of	1,404	304	21.6%	12	0.9%	357	25.4%	703	50.1%
Shrewsbury, Township of	62	1	2.4%	0	0.0%	10	16.2%	51	81.4%
Spring Lake, Borough of	902	86	9.6%	0	0.0%	120	13.3%	616	68.3%
Spring Lake Heights, Borough of	840	68	8.1%	0	0.0%	252	30.1%	498	59.4%
Tinton Falls, Borough of	9,965	1,240	12.4%	249	2.5%	5,963	59.8%	2,368	23.8%
Union Beach, Borough of	1,210	119	9.9%	0	0.0%	540	44.6%	477	39.4%
Upper Freehold, Township of	30,134	300	1.0%	16,660	55.3%	9,820	32.6%	2,801	9.3%
Wall, Township of	19,829	1,780	9.0%	1,273	6.4%	10,567	53.3%	5,514	27.8%
West Long Branch, Borough of	1,842	322	17.5%	18	1.0%	371	20.1%	1,109	60.2%
<b>Total</b>	<b>309,925</b>	<b>22,289</b>	<b>7.2%</b>	<b>43,379</b>	<b>14.0%</b>	<b>132,807</b>	<b>42.9%</b>	<b>99,775</b>	<b>32.2%</b>

Note: Identified Utility land use is considered comparatively negligible (0.0007% of total County acreage). The remaining difference between Total Acreage and the sum of the four land use categories represents water.

**Table 3d.1-2  
Population Projections by Jurisdiction, 2010-2040**

Jurisdiction	Population 2010 (Census)	Population 2040 (Projected)	Absolute Change 2010-2040	Percent Change 2010-2040	Land Area (sq. mi.)	Density 2010 (per sq. mi.)	Density 2040 (per sq. mi.)	Projected Population Increase Per Square Mile Land Area 2010-2040
Aberdeen, Township of	18,210	20,182	1,972	10.8%	5.45	3,341.28	3,703.12	361.83
Allenhurst, Borough of	496	504	8	1.5%	0.26	1,907.69	1,938.46	30.77
Allentown, Borough of	1,828	1,840	12	0.7%	0.60	3,046.67	3,066.67	20.00
<b>Asbury Park, City of</b>	16,116	20,784	4,668	29.0%	1.42	11,349.30	14,636.62	<b>3,287.32</b>
Atlantic Highlands, Borough of	4,385	4,540	155	3.5%	1.29	3,399.22	3,519.38	120.16
Avon-by-the-Sea, Borough of	1,901	1,907	6	0.3%	0.43	4,420.93	4,434.88	13.95
Belmar, Borough of	5,794	5,857	71	1.2%	1.05	5,518.10	5,578.10	67.62
Bradley Beach, Borough of	4,298	4,367	69	1.6%	0.61	7,045.90	7,159.02	113.11
Britelle, Borough of	4,774	4,931	157	3.3%	1.76	2,712.50	2,801.70	89.20
Colts Neck, Township of	10,142	12,291	2,149	21.2%	30.73	330.04	399.97	69.93
Deal, Borough of	750	757	7	0.9%	1.24	604.84	610.48	5.65
Eatontown, Borough of	12,709	15,345	2,662	21.0%	5.83	2,179.93	2,632.08	456.60
Englishtown, Borough of	1,847	1,998	151	8.2%	0.57	3,240.35	3,505.26	264.91
Fair Haven, Borough of	6,121	6,274	153	2.5%	1.60	3,825.63	3,921.25	95.63
Farmingdale, Borough of	1,329	1,413	84	6.3%	0.52	2,555.77	2,717.31	161.54
Freehold, Borough of	12,052	12,606	554	4.6%	1.95	6,180.51	6,464.62	284.10
Freehold, Township of	36,184	42,100	5,916	16.3%	38.50	939.84	1,093.51	153.66
Hazlet, Township of	20,334	21,404	1,070	5.3%	5.56	3,657.19	3,849.64	192.45
Highlands, Borough of	5,005	5,115	110	2.2%	0.77	6,500.00	6,642.86	142.86
Holmdel, Township of	16,773	20,210	3,437	20.5%	17.90	937.04	1,129.05	192.01
Howell, Township of	51,075	57,249	6,174	12.1%	60.56	843.38	945.33	101.95
Interlaken, Borough of	820	830	10	1.2%	0.33	2,484.85	2,515.15	30.30
Keansburg, Borough of	10,105	10,388	269	2.7%	1.07	9,443.93	9,708.41	251.40
Keyport, Borough of	7,240	7,470	230	3.2%	1.40	5,171.43	5,335.71	164.29
Lake Como, Borough of	1,759	1,777	10	0.6%	0.25	7,036.00	7,108.00	40.00
Little Silver, Borough of	5,950	6,223	273	4.6%	2.71	2,195.57	2,296.31	100.74
Loch Arbour, Village of	194	203	9	4.5%	0.10	1,940.00	2,030.00	90.00
Long Branch, City of	30,719	31,884	1,165	3.8%	5.27	5,829.03	6,050.09	221.06
Manalapan, Township of	38,872	42,754	3,882	10.0%	30.61	1,269.91	1,396.73	126.82
Manasquan, Borough of	5,897	6,087	190	3.2%	1.38	4,273.19	4,410.87	137.68
Marlboro, Township of	40,191	44,532	4,341	10.8%	30.36	1,323.81	1,466.80	142.98
Matawan, Borough of	8,810	9,271	461	5.2%	2.26	3,898.23	4,102.21	203.98
Middletown, Township of	66,522	70,649	4,141	6.2%	40.99	1,622.88	1,723.57	101.02

**Table 3d.1-2  
Population Projections by Jurisdiction, 2010-2040**

Jurisdiction	Population 2010 (Census)	Population 2040 (Projected)	Absolute Change 2010-2040	Percent Change 2010-2040	Land Area (sq. mi.)	Density 2010 (per sq. mi.)	Density 2040 (per sq. mi.)	Projected Population Increase Per Square Mile Land Area 2010-2040
Millstone, Township of	10,566	11,191	637	6.0%	36.59	288.77	305.85	17.41
Monmouth Beach, Borough of	3,279	3,313	34	1.0%	1.08	3,036.11	3,067.59	31.48
Neptune City, Borough of	4,869	5,051	182	3.7%	0.95	5,125.26	5,316.84	191.58
Neptune, Township of	27,935	31,184	3,249	11.6%	8.18	3,415.04	3,812.22	397.19
Ocean, Township of	27,291	28,653	1,362	5.0%	10.88	2,508.36	2,633.55	125.18
Oceanport, Borough of	5,832	7,957	2,125	35.9%	3.18	1,833.96	2,502.20	661.01
Red Bank, Borough of	12,206	13,434	1,228	10.1%	1.74	7,014.94	7,720.69	705.75
Roosevelt, Borough of	882	900	8	0.9%	1.91	461.78	472.25	4.19
Rumson, Borough of	7,122	7,615	493	6.9%	5.06	1,407.51	1,504.94	97.43
Sea Girt, Borough of	1,412	1,516	104	7.4%	0.73	1,934.25	2,076.71	142.47
Shrewsbury, Borough of	1,828	1,835	7	0.4%	1.06	1,724.53	1,731.13	6.60
Shrewsbury, Township of	3,809	4,259	450	11.8%	2.17	1,755.30	1,962.67	207.37
Spring Lake, Borough of	1,141	1,192	51	4.5%	0.10	11,410.00	11,920.00	510.00
Spring Lake Heights, Borough of	2,993	3,002	9	0.3%	1.33	2,250.38	2,257.14	6.77
Tinton Falls, Borough of	4,713	4,793	80	1.7%	1.28	3,682.03	3,744.53	62.50
Union Beach, Borough of	17,892	24,235	6,340	35.4%	15.49	1,155.07	1,564.56	409.30
Upper Freehold, Township of	6,245	6,405	160	2.6%	1.80	3,469.44	3,558.33	88.89
Wall, Township of	6,902	7,286	384	5.6%	46.42	148.69	156.96	8.27
West Long Branch, Borough of	26,164	30,741	4,577	17.5%	30.67	853.08	1,002.31	149.23
<b>Total</b>	<b>630,380</b>	<b>696,920</b>	<b>66,540</b>	<b>10.6%</b>	<b>468.79</b>	<b>1,344.70</b>	<b>1,486.64</b>	<b>141.94</b>

**Table 3d.1-3  
New, Privately Owned Residential Housing Units Authorized (2009-2012)**

<b>Jurisdiction</b>	<b>Total Units Authorized, 2009-2012</b>	<b>Single Family Units Authorized, 2009-2012</b>	<b>Multi-Family Units as Proportion of Total in Jurisdiction</b>	<b>Total Units in Jurisdiction as Proportion of Total Units County-wide</b>
Aberdeen, Township of	82	82	--	2.17%
Allenhurst, Borough of	4	4	--	0.11%
Allentown, Borough of	0	0	--	0.00%
Asbury Park, City of	25	20	20.00%	0.66%
Atlantic Highlands, Borough of	11	11	--	0.29%
Avon-by-the-Sea, Borough of	59	44	25.42%	1.56%
Belmar, Borough of	32	32	--	0.85%
Bradley Beach, Borough of	46	24	47.83%	1.22%
Brielle, Borough of	44	44	--	1.16%
Colts Neck, Township of	23	23	--	0.61%
Deal, Borough of	16	16	--	0.42%
Eatontown, Borough of	146	33	77.40%	3.86%
Englishtown, Borough of	44	20	54.55%	1.16%
Fair Haven, Borough of	45	45	--	1.19%
Farmingdale, Borough of	2	2	--	0.05%
Freehold, Borough of	60	40	33.33%	1.59%
Freehold, Township of	45	4	91.11%	1.19%
Hazlet, Township of	20	20	--	0.53%
Highlands, Borough of	18	18	--	0.48%
Holmdel, Township of	23	23	--	0.61%
Howell, Township of	444	294	33.78%	11.74%
Interlaken, Borough of	6	6	--	0.16%
Keansburg, Borough of	14	14	--	0.37%
Keyport, Borough of	35	35	--	0.93%
Lake Como, Borough of	5	5	--	0.13%
Little Silver, Borough of	79	79	--	2.09%
Loch Arbour, Village of	1	1	--	0.03%
Long Branch, City of	243	111	54.32%	6.43%
Manalapan, Township of	413	301	27.12%	10.92%
Manasquan, Borough of	75	75	--	1.98%
Marlboro, Township of	183	135	26.23%	4.84%
Matawan, Borough of	7	7	--	0.19%
Middletown, Township of	196	141	28.06%	5.18%
Millstone, Township of	21	21	--	0.56%
Monmouth Beach, Borough of	43	43	--	1.14%
Neptune City, Borough of	2	2	--	0.05%
Neptune, Township of	152	63	58.55%	4.02%
Ocean, Township of	112	112	--	2.96%
Oceanport, Borough of	33	29	12.12%	0.87%
Red Bank, Borough of	92	55	40.22%	2.43%
Roosevelt, Borough of	0	0	--	0.00%
Rumson, Borough of	97	90	7.22%	2.56%
Sea Bright, Borough of	6	6	--	0.16%
Sea Girt, Borough of	46	46	--	1.22%
Shrewsbury, Borough of	109	109	--	2.88%
Shrewsbury, Township of	0	0	--	0.00%
Spring Lake, Borough of	77	77	--	2.04%
Spring Lake Heights, Borough of	19	19	--	0.50%
Tinton Falls, Borough of	172	92	46.51%	4.55%
Union Beach, Borough of	34	34	--	0.90%

**Table 3d.1-3  
New, Privately Owned Residential Housing Units Authorized (2009-2012)**

Jurisdiction	Total Units Authorized, 2009-2012	Single Family Units Authorized, 2009-2012	Multi-Family Units as Proportion of Total in Jurisdiction	Total Units in Jurisdiction as Proportion of Total Units County-wide
Upper Freehold, Township of	34	34	--	0.90%
Wall, Township of	91	91	--	2.41%
West Long Branch, Borough of	196	10	94.90%	5.18%
<b>Monmouth County Total</b>	<b>3,782</b>	<b>2,642</b>	<b>30.14%</b>	<b>100.00%</b>

**Table 3d.1-4  
Existing Municipal Open Space and Targets by Jurisdiction, 2005**

Jurisdiction	Existing Open Space (Acres)	Percent of Land Area	Target for Open Space (Acres)	Surplus / Deficit	Percent of Target Owned
Aberdeen, Township of	420.49	12.1%	103.83	316.66	405.0%
Allenhurst, Borough of	10.50	5.5%	5.76	4.74	182.3%
Allentown, Borough of	50.50	13.2%	11.52	38.98	438.4%
Asbury Park, City of	138.50	14.4%	28.80	109.70	480.9%
Atlantic Highlands, Borough of	88.55	11.5%	23.04	65.51	384.3%
Avon-By-The-Sea, Borough of	15.28	6.0%	7.68	7.60	199.0%
Belmar, Borough of	69.71	10.9%	19.20	50.51	363.1%
Bradley Beach, Borough of	28.60	6.4%	13.44	15.16	212.8%
Brielle, Borough of	28.00	2.7%	31.68	<b>-3.68</b>	88.4%
Colts Neck, Township of	1,922.00	9.5%	608.64	1,313.36	315.8%
Deal, Borough of	19.40	2.5%	23.04	<b>-3.64</b>	84.2%
Eatontown, Borough of	183.91	5.0%	111.36	72.55	165.1%
Englishtown, Borough of	0.80	0.2%	10.95	<b>-10.15</b>	7.3%
Fair Haven, Borough of	89.60	9.0%	29.76	59.84	301.1%
Farmingdale, Borough of	10.60	3.3%	9.60	1.00	110.4%
Freehold, Borough of	20.80	1.7%	36.48	<b>-15.68</b>	57.0%
Freehold, Township of	381.03	1.6%	710.40	<b>-329.37</b>	53.6%
Hazlet, Township of	335.31	9.0%	111.48	223.83	300.8%
Highlands, Borough of	20.70	4.6%	13.41	7.29	154.4%
Holmdel, Township of	862.73	7.1%	365.70	497.03	235.9%
Howell, Township of	1,600.00	4.0%	1,192.32	407.68	134.2%
Interlaken, Borough of	10.75	4.4%	7.29	3.46	147.5%
Keansburg, Borough of	38.29	6.1%	18.90	19.39	202.6%
Keyport, Borough of	10.88	1.2%	26.31	<b>-15.43</b>	41.4%
Lake Como, Borough of	7.36	5.8%	3.84	3.52	191.7%
Little Silver, Borough of	98.73	5.5%	53.76	44.97	183.6%
Loch Arbour, Village of	1.30	2.0%	1.92	<b>-0.62</b>	67.7%
Long Branch, City of	109.29	3.3%	97.92	11.37	111.6%
Manalapan, Township of	676.20	3.4%	592.32	83.88	114.2%
Manasquan, Borough of	94.00	10.5%	26.88	67.12	349.7%
Marlboro, Township of	1,134.50	5.8%	582.75	551.75	194.7%
Matawan, Borough of	31.22	2.1%	43.59	<b>-12.37</b>	71.6%
Middletown, Township of	990.15	4.3%	687.87	302.28	143.9%
Millstone, Township of	462.79	1.9%	717.69	<b>-254.90</b>	64.5%
Monmouth Beach, Borough of	21.60	3.1%	21.12	0.48	102.3%
Neptune, Township of	179.46	3.5%	153.60	25.86	116.8%
Neptune City, Borough of	13.99	2.4%	17.28	<b>-3.29</b>	81.0%

**Table 3d.1-4  
Existing Municipal Open Space and Targets by Jurisdiction, 2005**

<b>Jurisdiction</b>	<b>Existing Open Space (Acres)</b>	<b>Percent of Land Area</b>	<b>Target for Open Space (Acres)</b>	<b>Surplus / Deficit</b>	<b>Percent of Target Owned</b>
Ocean, Township of	308.03	4.3%	215.04	92.99	143.2%
Oceanport, Borough of	78.94	4.0%	59.52	19.42	132.6%
Red Bank, Borough of	25.90	2.3%	33.60	<b>-7.70</b>	77.1%
Roosevelt, Borough of	130.58	15.3%	25.59	104.99	510.3%
Rumson, Borough of	89.79	2.7%	99.84	<b>-10.05</b>	89.9%
Sea Bright, Borough of	4.60	1.2%	11.52	<b>-6.92</b>	39.9%
Sea Girt, Borough of	42.03	6.3%	20.16	21.87	208.5%
Shrewsbury, Borough of	44.30	3.0%	44.16	0.14	100.3%
Shrewsbury, Township of	1.48	2.6%	1.74	<b>-0.26</b>	85.1%
Spring Lake, Borough of	119.45	14.4%	24.96	94.49	478.6%
Spring Lake Heights, Borough of	25.42	3.1%	24.96	0.46	101.8%
Tinton Falls, Borough of	352.75	3.6%	290.97	61.78	121.2%
Union Beach, Borough of	29.60	2.9%	30.45	<b>-0.85</b>	97.2%
Upper Freehold, Township of	30.00	0.1%	911.04	<b>-881.04</b>	3.3%
Wall, Township of	1,461.23	7.5%	595.38	865.85	245.4%
West Long Branch, Borough of	110.30	6.1%	54.33	55.97	203.0%
<b>Total</b>	<b>13,031.92</b>	<b>4.4%</b>	<b>8,964.39</b>	<b>4,067.53</b>	<b>145.4%</b>

Source: Monmouth County Park System, 2005

**APPENDIX 3E.1 – HAZARD RANKINGS AND KEY RISK FINDINGS**



Summary of PRI Results for Monmouth County

Category/Degree of Risk

Hazard	Category/Degree of Risk										PRI Score	Hazard Ranking
	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE		
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Highly Likely	4	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	3.0	H
Dam Failure	Unlikely	1	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Highly Likely	4	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.3	H
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	Highly Likely	4	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	3.0	H
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	Possible	2	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.5	M
<b>Other Natural Hazards</b>												
Wildfire	Highly Likely	4	Minor	1	Moderate	3	Less than 6 hours	4	Less than one week	3	2.8	M

**Mitigation Strategy:**  
Mitigate Highest Hazards

**Key Risk Findings:**

- The CRS ranking program, which is run by FEMA through the National Flood Insurance Program (NFIP), scores communities on their effectiveness in dealing with flood plain management and development. Towns that take action steps to increase their resiliency to future storm events can help residents and businesses increase their eligibility for policy holder discounts. The program differentiates amongst ten classes. Communities enter at Class 10, and then as additional activities undertaken, they accumulate points toward moving up into the next higher class and achieving an associated decrease in insurance premiums for policyholders in their jurisdiction. Currently there are only eight Monmouth County towns that are part of the CRS program. Many communities in Monmouth County lack the resources to undertake the more technical aspects of the program in-house. In turn, many communities have either not accessed the program at all, or have entered at only the lowest levels. Many homeowners and businesses in Monmouth County may see an increase in their flood insurance premiums as the new FEMA Flood Maps are adopted.

- All communities in Monmouth County participate in FEMA's National Flood Insurance Program. Many communities and residents suffer from flooding events on a regular basis, and incur significant damages and costs associated with preparation, response, and recovery from these events. There also tends to be a disconnect between local master plans and floodplain management issues.

- Many local officials in Monmouth County lack direct access to mapping services (i.e., GIS). This creates a gap in their full understanding of natural hazards in their communities, significant costs are incurred each year for hazard response, recovery, and damage repair. Lack of access to mapping services such as GIS creates a situation in some communities where mitigation project development is sometimes hindered, and public education/warning programs are not as efficient/targeted as they could be. Having more direct access to mapping services tools could facilitate local communities to guide development away from hazard areas, improve public education/warning for their residents in hazard areas, and enhance their mitigation project development.

- Monmouth County has an active history of hurricanes and tropical storms. Implementation of evacuation orders related to an impending hurricane would have a significant impact on travel patterns and operating conditions on the area's transportation system. For example, prevailing directional patterns would be altered substantially as westbound and coastal residents and visitors traveling away from the coast to higher ground would heavily utilize northbound travel lanes. Congestion levels at locations that already have constrained service rate issues, such as merge junctions, ramps, and signalized major intersections would be exacerbated. The timing of an evacuation order would have a significant effect on traffic flows, the shorter the timeframe, the more intense delays and queuing potential. Operational, physical and long term improvements (either by route or by type) would greatly enhance to capacity of these evacuation routes during an evacuation order.

## MONMOUTH COUNTY, CONTINUED

- The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level of disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities.
- A section of the Henry Hudson Trail located in Atlantic Highlands along Sandy Hook Bay was destroyed by Superstorm Sandy. The adjacent coastal bluff experienced erosion at the base of slope from wave action and storm surge. Above the trail, located on the bluff, there are numerous high value residences that have taken advantage of the unique location. The bluff is subject to slump block failure usually associated with a rain event and disruption of the slope.
- Within Hartshorne Woods Park (Middletown) there are two unique sites; Claypit Creek and Portland Place. The sites are protected by coastal river-edge bluffs which were severely eroded during the Superstorm Sandy event. Both sites offer passive recreation activities for County residents and have a south-eastern orientation steep bluff, which received the most direct exposure of winds, flooding and wave action from the storm.
- The County Park System acquires land for open space preservation, public park & recreation purposes and natural resources conservation. Some of the properties that are identified for acquisition are ones that are subject to flooding, winter storms or associated storm surges. These properties may be located in coastal zones or located along stream and river corridors throughout the county. When many properties along a watercourse are acquired, they form a protected greenway along the stream or river. By purchasing these properties, any buildings located in the flood zone are removed and the land is restored to a natural condition. Protected lands adjacent to coastal zones and river courses helps to reduce regional flooding by not increasing impervious cover and also allows natural systems of forests and marshes to mitigate some of the effects of flooding.
- Fisherman's Cove Conservation Area, Seven Presidents Oceanfront Park, Henry Hudson Trail - Popamora Point, Bayshore Waterfront Park have all experience some coastal dunes loss, erosion of coastal zone open space real estate, sedimentation of adjacent channels, loss of protective features for adjacent private properties.
- Pine Brook (Pine Brook Golf Course, Manalapan) and Ramonessin Brook (Holmdel Park, Holmdel) stream bank stabilization, Manasquan River (Turkey Swamp Park, Freehold) floodplain restoration. The Manasquan River has been increasingly more flood prone and suffers potable water quality issues related to increased watershed development and past stream channel straightening impacts. A proposal has been in the planning phase for many years to re-introduce stream form and function in the upper reaches of the watershed where extensive straightening occurred in the past. This will result in more stream stability and improved water quality with improve stream function.
- Certain wild-lands and urban interface areas pose a risk to losses by fire. Fisherman's Cove Conservation Area (Manasquan Boro), Turkey Swamp Park (Freehold Township) and Bayshore Waterfront Park (Middletown Township) are all park areas that have been subject to wildfires which have potential to destroy adjacent residential properties as well as park building infrastructure.
- Lack of fuel supply in a key location of Monmouth County, which is detrimental on operational and emergency services provided during a time of disaster or crisis.
- Telecommunication and electrical systems at key Monmouth County Operational Buildings are negatively impacted during periods of Power Failure (interruption or loss of electrical service caused by disruption of power transmission caused by accident, sabotage, natural hazards, or equipment failure).
- Capacity and integrity issues of NJDEP defined Class 1 dams (those structures which, should they fail, would likely cause loss of life) and Class 2 dams (those structures which, should they fail, would likely cause substantial downstream property damage but are not considered to be a threat to life) as well as the associated bridge and roadways. Locations include, but are not limited to, the following:
  - 1) Lake Lefferts Dam, County Bridge MA-9, Ravine Dr (CR 6A), Matawan; 2) Matawan Lake Dam, County Bridge MA-13, Main St. (CR 516), Matawan; 3) Perrineville Dam, County Bridge MS-48, Perrineville Rd. (CR 1), Millstone; 4) Shadow Lake Dam, County Bridges MT-30 & MT-45, Hubbard Ave. (CR 12), Middletown; 5) Indian Dam, County Bridge U-18, Church St. (CR 526), Allentown; 6) Hurley Pond Dam, County Bridge W-18, Allenwood Rd., Wall
- Roadways and bridges below base elevation incur flooding. Locations include, but are not limited to: County Bridge H-5 & H-5A, Palmer Ave. (CR 7), Holmdel & Middletown; County Bridges ML-17, ML-18, & ML-19, Station Rd., Marlboro; County Bridge R-5, Florence Ave. (CR 39), Union Beach, and Union Ave. (CR 39), Union Beach. Road flooding, resulting in damage to infrastructure, reduced safe passage, and isolation of neighborhoods by flood waters.
- Storm events and subsequent flooding wash substantial amounts of debris and sedimentation in creeks and waterways, compounding the effects of natural situation and build up of debris and fallen trees, which obstruct the natural flow of some surface waters, resulting in increased inland and coastal flooding.
- Structural integrity of bridges that are exposed to wave, tidal, and storm surges. These bridges may carry coastal evacuation routes and any damage to the bridge may impair safe passage, ultimately jeopardizing human life.
- Monmouth County's population is growing modestly; it is projected to have a population increase 10.6% of 2010 values by the year 2040.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.
- Monmouth County has established a large County evacuation center at Brookdale Community College. The building although structurally sound does have some exterior windows and doors that could become compromised during a wind generating event.

**Summary of PRI Results for Aberdeen, Township of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	1.7	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion, and wave action.

**Key Risk Findings:**

- The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities.
- Several roadways in the Township are flood prone. This includes but is not limited to State routes of: State Highway 35 at Long Neck Creek, Lakeshore Drive and Greenwood Avenue, and Amboy Avenue.
- Aberdeen has a fairly steady flow of infill development and redevelopment and its population is increasing, so promoting disaster resistant development will be key to achieving sustainability.
- Aberdeen has several critical facilities in areas of mapped flood, wildfire, and/or storm surge hazard.
- Most of the township north of the Garden State Parkway is potentially susceptible to storm surge.
- The Township has suffered significant beach erosion in the Cliffwood Beach area resulting from hurricanes, tropical storms, and nor'easters.
- The Cliffwood Beach area is home to two marinas, the Townships DPW, and several pump stations.
- Due to the impact of Hurricane Sandy the township is concerned with improving protection of low-lying areas of Cliffwood Beach with engineered dunes and the extension of the existing seawall. Residents have also expressed concern with possible elevation of their homes.
- Aberdeen's population is growing modestly but with that growth, more people will be exposed to natural hazards. By the year 2040, Aberdeen is projected to have a population increase of 10.8% over 2010 values. This is slightly higher than the average rate of the Bay-shore Region as a whole (6.7%) but very close to the County's overall projected increase of 10.6% for that same time period. New development is predominantly infill and redevelopment.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.

**Summary of PRI Results for Allenhurst, Borough of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	1.7	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion, and wave action.

**Key Risk Findings:**

- Two critical facilities are located in areas potentially susceptible to storm surge.
- Allenhurst is a virtually built-out coastal community.
- The intersection of Elberon Avenue and Ocean Avenue is in a Special Flood Hazard Area, as is Corlies Avenue . These areas were flooded during Hurricane Sandy.
- Ocean Place was flooded during Hurricane Sandy, as was the southernmost area of Main Street and the rail lines.
- Allenhurst's population is projected to increase somewhat due to redevelopment and infill development (mixed residential/commercial).
- Most of the Borough's storm damage has historically been experienced along the beach area and the first two blocks inland.
- Municipal beachfront buildings and infrastructure are at risk of storm damage. Some have been elevated.
- Allenhurst is in a reach of the USACE Sea Bright to Manasquan, New Jersey, Beach Erosion Control Project that has never been constructed. The project area covers the 21 miles of coastline from Sea Bright south to Manasquan, except for three miles of shoreline from Lake Takanassee in Long Branch south through Deal, Allenhurst, and Loch Arbour to the Deal Lake outfall.
- Allenhurst's population is projected to remain virtually static, but with its very limited growth, more people will be exposed to natural hazards. By the year 2040, Allenhurst is projected to have a population increase of just 1.5% over 2010 values. This is much lower than the average rate of the Coastal Region as a whole (29.0%) and also much lower than the County's overall projected increase of 10.6% for that same time period. Very little development has occurred in the Borough for the last 70 years, and a similar trend is planned in the future, though some redevelopment is expected.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.

**Summary of PRI Results for Allentown, Borough of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Dam Failure	Unlikely	1	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	0	#N/A	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Wave Action	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Possible	2	Catastrophic	4	Moderate	3	Less than 6 hours	4	Less than one week	3	3.1	H

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding and wind.

**Key Risk Findings:**

- Public outreach in the 2009-2014 planning cycle has increased the general public's understanding of natural hazards and mitigation possibilities.
- An inventory of addresses that could be affected by a wildfire was prepared, and has been used to develop a route alerting system.
- An existing dam that runs below County Route 539 has been reconstructed. This project protects major private and public property that could have been damaged if the dam had failed, including but not limited to the municipal sewer plant.
- The Borough of Allentown is almost totally developed. The land that is not used for commercial or residential buildings is protected land under "Green Acres".
- Route 524 in the vicinity of Conines Millpond is subject to flooding.
- During periods of heavy rainfall, Doctors Creek and Indian Run have overflowed their banks and backed up the municipality's drainage system, which causes flooding of streets and adjacent properties.
- While Allentown is generally surrounded by areas mapped as low wildfire risk, an area in the town of moderate to high risk poses a concern due to the relatively few roads of ingress/egress in the Borough.
- Allentown's population is projected to be essentially the same by the year 2040 as it is today. Allentown is projected to have a very slight population increase of only 0.7% over 2010 values. This is lower than the average rate of the Panhandle Region as a whole (1.6%) and also much lower than the County's overall projected increase of 10.6% for that same time period. Allentown is almost totally developed, and the land that is not used for commercial or residential buildings is protected land under "Green Acres".
- Climate change will contribute to more frequent and severe weather events.

**Summary of PRI Results for Asbury Park, City of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	1.7	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion, and wave action.

**Key Risk Findings:**

- Bottlenecked storm drains cause flooding in locations throughout the city. The city has been addressing the issue little by little as funding becomes available, but there are more locations to be addressed.
- Floodplains generally surround Deal Lake, Sunset Lake, and Wesley Lake. Bulkheads at Sunset Lake and Wesley Lake are in need of mitigation; sediment accumulation limits storage
- Asbury Park is part of the USACE Sea Bright to Manasquan, New Jersey, Beach Erosion Control Project. The project covers the 21 miles of coastline from Sea Bright south to Manasquan (except for three miles of shoreline from Lake Takanasee in Long Branch south through Deal, Allenhurst, and Loch Arbour to the Deal Lake outfall). It involves a 100 foot wide beach berm at elevation +7.3 ft NAVD, with a width from the project baseline of 100ft. A two foot berm cap, 80ft wide from the baseline, was designed at elevation +9.3ft NAAVD to prevent frequent overtopping of the berm from wave runoff.
- Asbury Park's beach is subject to erosion and the ongoing renourishment of the USACOE project is of the utmost importance.
- Asbury Park's population is growing fairly rapidly and with that growth, more people will be exposed to natural hazards. By the year 2040, Asbury Park is projected to have a population increase of 29% over 2010 values. This mirrors that of the average rate of the Coastal Region as a whole (29%) and is much higher than the County's overall projected increase of 10.6% for that same time period. Oceanfront redevelopment is occurring, with 4 to 6 story combined commercial/residential, 1 to 2 story commercial, and up to 25 story residential high rise throughout the oceanfront area.
- Deal Lake continues to be a major source of flooding. During severe storms, water drains into the Lake but outfall design constraints prevent the water from making its way into the ocean before water overflows the banks and floods back into surrounding areas.
- Sedimentation and debris in Deal Lake and its tributaries impedes flood flows.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.

Summary of PRI Results for Atlantic Highlands, Borough of

Hazard	Category/Degree of Risk								PRI Score	Hazard Ranking		
	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE			Duration	DURATION INDEX VALUE
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	Highly Likely	4	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	3.1	H
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	1.7	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion, and wave action.

**Key Risk Findings:**

- The erosion and flooding to many parts of the Borough continues to be an issue of great concern.
- The Borough continues to monitor the hillside for erosion and slump blocking
- Since Superstorm Sandy (October 2012) the Borough has been dealing with flooding issues on the west side of town; it appears that the Many Mind Creek floods residential areas more often than not in a rain storm.

Hillside Road and Paper Street have issues with high velocity overland flows (outside of mapped foodplains) that cause slope failure and flooding. If the drainage of water continues to erode Paper Street, the downhill properties will be in danger of failure as will the residents in the dwelling. If the wash out is severe, there is a possibility that the roadway will wash out and landlock over 12 homes. On Hillside Road, municipal and four private properties are at risk.

Flooding is an issue at Fireman's Memorial Field on West Highland Avenue (south of Avenue B). The site is adjacent to the Many Mind Creek. The site is owned by town firemen's association. 3 baseball fields, converted for football in fall, soccer as well. While damages to the fields themselves are an issue, the affected area also includes the following improvements: bleachers, dugouts, electric scoreboards, PA system, night lights, center track at border sand beside Many Mind Creek, tot lot near Leonard Avenue entrance, parking lot, chute, slide, monkey bars, climbing, other devices, field house with restrooms, and concession stand. The creek was dredged in this specific area since the initial version of the plan, but flooding problems continue. In addition, the bridge hasn't changed thus the continuance of problems.

- Slope stabilization is needed on Bayside Drive; this is an area of historic slump blocks particularly where hillsides are disturbed during construction activities, and or times where the soil is saturated and there is increased surface runoff. Roadway will be washed away landlocking 12 single family dwellings
- Atlantic Highlands' population is projected to remain virtually static but with its very limited growth, more people will be exposed to natural hazards. By the year 2040, Atlantic Highlands is projected to increase by just 3.5% over 2010 values. This is somewhat lower than average rate of the Bayshore Region as a whole (6.7%) and is also lower than the County's overall projected increase of 10.6% for that same time period.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.

**Summary of PRI Results for Avon By The Sea, Borough of**  
Category/Degree of Risk

Hazard	Category/Degree of Risk										Hazard Ranking	
	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE		PRI Score
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	1.7	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion, and wave action.

**Key Risk Findings:**

- The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities.
- One critical facility is located in a flood hazard area, and four are potentially susceptible to storm surge. These include one child care facility, one school, a police/fire station, and public works facility.
- The floodplain is primarily around Sylvan Lake and the Shark River inlet. Walls around the Lake are in need of mitigation. Sediment is accumulating in the lake.
- Avon By The Sea is part of the USACE Sea Bright to Manasquan, New Jersey, Beach Erosion Control Project. The project covers the 21 miles of coastline from Sea Bright south to Manasquan (except for three miles of shoreline from Lake Takanasee in Long Branch south through Deal, Allenhurst, and Loch Arbour to the Deal Lake outfall). It involves a 100 foot wide beach berm at elevation +7.3 ft NAVD, with a width from the project baseline of 100ft. A two foot berm cap, 80ft wide from the baseline, was designed at elevation +9.3ft NAAVD to prevent frequent overtopping of the berm from wave runup.
- Avon By The Sea's coastline is subject to erosion and the ongoing renourishment of the USACE project is of the utmost importance.
- Avon By The Sea's population is projected to be essentially the same by the year 2040 as it is today. Avon By The Sea is only projected to have a very slight population increase of 0.3% over 2010 values. This is much lower than average rate of the Coastal Region as a whole (29%) and is also lower than the County's overall projected increase of 10.6% for that same time period. The Borough is a fully built-out coastal community.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.

**Summary of PRI Results for Belmar, Borough of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	1.7	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion, and wave action.

**Key Risk Findings:**

- Flooding is an issue around Silver Lake, Lake Como, and Shark River Inlet. (property damages, road closures, etc)
- Coastal erosion is a significant issue along Belmar's beachfront.
- Belmar experienced serious flooding from Sandy resulting from the storm surge and resultant flooding caused in large part due to the variants in elevations between much of the town and Ocean Avenue. The surge resulted in flooding both from the Ocean and from the Shark River with flood waters meeting at Main Street, extensive damage to the beachfront, marina and residential properties. Belmar is now dealing with serious issues from the 2 lakes in town Lake Como, and Silver Lake. We have also seen a serious impact to our underground infrastructure including the water distribution system and sewer collection systems.
- Belmar is part of the USACE Sea Bright to Manasquan, New Jersey, Beach Erosion Control Project. The project covers the 21 miles of coastline from Sea Bright south to Manasquan (except for three miles of shoreline from Lake Takanasee in Long Branch south through Deal, Allenhurst, and Loch Arbour to the Deal Lake outfall). It involves a 100 foot wide beach berm at elevation +7.3 ft NAVD, with a width from the project baseline of 100ft. A two foot berm cap, 80ft wide from the baseline, was designed at elevation +9.3ft NAVD to prevent frequent overtopping of the berm from wave runoff.
- Belmar's coastline is subject to erosion and the ongoing renourishment of the USACE project is of the utmost importance.
- Belmar's population is projected to remain essentially the same by 2040 as it is today. By the year 2040, Belmar is projected to have a very slight population increase of 0.3% over 2010 values. This is much lower than average rate of the Coastal Region as a whole (29%) and is also much lower than the County's overall projected increase of 10.6% for that same time period. Belmar is a one square mile coastal community that is virtually built-out.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.
- Repetitive storm water flooding from the Shark River during storm surges and high volume rain events. Damage to residential property, borough recreational areas and street closures.

**Summary of PRI Results for Bradley Beach, Borough of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	1.7	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion, and wave action.

**Key Risk Findings:**

- Due to Super Storm Sandy, Bradley Beach incurred significant damages along its beach front and dune system. There were also significant damages to the bulkhead system.
- The Borough experiences ocean and lake flooding during hurricanes and large storms. In part due to issues with outfalls, and gaps in the bulkhead system.
- Virtually all of Bradley Beach is in mapped storm surge hazard areas.
- The Borough Sewer Plant is identified as susceptible to storm flooding. SEWER PUMP STATION IS SUSCEPTIBLE TO FLOODING DURING SEVERE COASTAL STORMS
- Lack of available grants and funding have hampered the Boroughs ability to institute mitigation actions
- Bradley Beach is part of the USACE Sea Bright to Manasquan, New Jersey, Beach Erosion Control Project. The project covers the 2.1 miles of coastline from Sea Bright south to Manasquan (except for three miles of shoreline from Lake Takanasee in Long Branch south through Deal, Allenhurst, and Loch Arbour to the Deal Lake outfall). It involves a 100 foot wide beach berm at elevation +7.3 ft NAVD, with a width from the project baseline of 100ft. A two foot berm cap, 80ft wide from the baseline, was designed at elevation +9.3ft NAAVD to prevent frequent overtopping of the berm from wave runoff.
- Bradley Beach's coastline is subject to erosion and the ongoing renourishment of the USACOE project is of the utmost importance.
- Bradley Beach's population is projected to remain virtually static, but with its very limited growth, more people will be exposed to natural hazards. By the year 2040, Bradley Beach is projected to have a population increase of just 1.6% over 2010 values. This is much lower than the average rate of the Coastal Region as a whole (29.0%) and also much lower than the County's overall projected increase of 10.6% for that same time period. The Borough is a built out coastal community.
- Climate change will contribute to more frequent and severe weather events.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- FLETCHER LAKE DEPTH HAS BEEN DRASTICALLY REDUCED BY SANDY THUS CAUSING OVERFLOW DURING STRONG STORMS, HURRICANES AND COASTAL FLOODING. THESE LAKES ALSO ACT AS RETENTION BASINS FOR RUN OFF FROM ADJOINING MUNICIPAL, COUNTY AND STATE ROADWAYS
- SYLVAN LAKE DEPTH HAS BEEN DRASTICALLY REDUCED BY SANDY THUS CAUSING OVERFLOW DURING STRONG STORMS, HURRICANES AND COASTAL FLOODING. THIS LAKE ALSO ACTS AS RETENTION BASIN FOR RUN OFF FROM ADJOINING MUNICIPAL, COUNTY AND STATE ROADWAYS
- DEFICIENCIES WERE IDENTIFIED WITH LOCAL AND INTER AGENCY COMMUNICATION AS WELL AS COMMUNITY NOTIFICATIONS DURING PAST EMERGENCIES



Summary of PRI Results for Colts Neck, Township of

Hazard	Category/Degree of Risk										PRI Score	Hazard Ranking
	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE		
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Dam Failure	Unlikely	1	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	0	#N/A	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Wave Action	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Possible	2	Critical	3	Moderate	3	Less than 6 hours	4	Less than one week	3	2.8	M

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding and wind.

**Key Risk Findings:**

- The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities.
- Tree damage during severe storms such as hurricanes, tropical storms, nor'easters, and winter storms has been known to block roadways, and interrupt power as lines are downed.
- Since the last version of the plan was prepared, the Township has been impacted by two hurricanes. Each event has disrupted major portions of the town with power outages. Because Colts Neck is a well and septic community, no power means no water or sewer either.
- Colts Neck's population is growing fairly rapidly and with that growth, more people will be exposed to natural hazards. By the year 2040, Colts Neck is projected to have a population increase of 21.2% over 2010 values. This is lower than the average rate of the Central Region as a whole (31.1%) but higher than the County's overall projected increase of 10.6% for that same time period. New development is expected to be primarily low-density residential and some commercial.
- Climate change will contribute to more frequent and severe weather events.

Summary of PRI Results for Deal, Borough of

Hazard	Category/Degree of Risk										Hazard Ranking	
	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE		PRI Score
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	1.7	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion, and wave action.

**Key Risk Findings:**

- Flooding has historically been an issue from Poplar Brook at various locations through the years; particularly between Norwood Ave and Ocean Ave. Above normal rainfall causes flooding on roadways and onto private property partially due to drain pipes being of insufficient size under roadways.
- Beachfront areas were significantly damaged during Hurricane Sandy. Including, but not limited to, municipal sewer facility which is located on the oceanfront.
- Several roadways in the town require mitigation of drainage systems to prevent recurrent flooding.
- Undersized culverts under roadways in three different streets along Poplar Brook (Norwood Ave, Alymar Ave, Ocean Ave) result in flooding.
- Deal is in a reach of the USACE Sea Bright to Manasquan, New Jersey, Beach Erosion Control Project that has never been constructed. The project area covers the 21 miles of coastline from Sea Bright south to Manasquan, except for three miles of shoreline from Lake Takanasee in Long Branch south through Deal, Allenhurst, and Loch Arbour to the Deal Lake outfall.
- Deal's population is projected to remain virtually static through 2040. By the year 2040, Deal is projected to have a population increase of just 0.9% over 2010 values. This is much lower than the average rate of the Coastal Region as a whole (29%) and also much lower than the County's overall projected increase of 10.6% for that same time period. New development is limited to single family residential dwellings, complying with 40 percent impervious restriction, and the borough noted no potential for additional multiple family residential units near the oceanfront.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.

**Summary of PRI Results for Eatontown, Borough of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Critical	3	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	1.7	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion, and wave action.

**Key Risk Findings:**

- Husky Brook runs through the borough. Local officials note excess sedimentation impedes the brook's ability to drain water and, in turn, flooding of local areas is a result.
- Flooding is a recurrent issue at the Lewis Street Public Works Yard.
- Downed trees on power lines contribute to power outages during severe storms with high winds such as nor'easter, hurricanes, and tropical storms, etc.
- Shelters do not currently have sufficient systems in place to ensure that power can be maintained for telecommunications, etc. during severe storm events.
- Eatontown's population is projected to grow fairly rapidly through 2040. By the year 2040, Eatontown is projected to have a population increase of 21% over 2010 values. This is lower than the average rate of the Coastal Region as a whole (29%) but higher than the County's overall projected increase of 10.6% for that same time period. The Borough's development trends are predominantly high density, high value residential, commercial, and industrial units.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.

**Summary of PRI Results for Englishtown, Borough of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Dam Failure	Unlikely	1	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	0	#N/A	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Wave Action	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Possible	2	Minor	1	Moderate	3	Less than 6 hours	4	Less than one week	3	2.2	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind.

**Key Risk Findings:**

- Heavy sediment deposits in segments of Weamconk Creek and McGellairds Brook contribute to flooding of properties during heavy rain events, nor'easters and hurricanes, and the spring thaw.
- Downed trees on power lines contribute to power outages during severe storms with high winds such as nor'easter, hurricanes, and tropical storms, etc.
- The water treatment plant loses power during flood events.
- Englishtown's population is projected to experience minimal growth through 2040. By the year 2040, Englishtown is projected to have a population increase of 8.2% over 2010 values. This is much lower than the average rate of the Western Region as a whole (31.7%) and somewhat lower than the County's overall projected increase of 10.6% for that same time period. While Englishtown is a half square mile community that is, for the most part, built out, some infill/redevelopment is expected (single family residential with some apartments); however, the new conservation zone is intended to protect open space and prevent construction in hazard areas.
- Climate change will contribute to more frequent and severe weather events.

**Summary of PRI Results for Fair Haven, Borough of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warming Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	Possible	2	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.5	M
<b>Other Natural Hazards</b>												
Wildfire	Possible	2	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	2.0	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion, and wave action.

**Key Risk Findings:**

- Downed trees on power lines contribute to power outages during severe storms with high winds such as nor'easter, hurricanes, and tropical storms, etc.
- WHENEVER BOROUGH HALL AND DPW BUILDINGS LOSE POWER THESE BUILDINGS CAN NOT OPERATE AND THEREFORE THE BOROUGH CANNOT OPERATE BUSINESS.
- Mapped flood hazard areas are limited very close to the shoreline of the Navesink and its tributaries; though areas mapped as potentially susceptible to storm surge in Fair Haven are fairly extensive. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Fair Haven's population is projected to remain virtually static through 2040. By the year 2040, Fair Haven is projected to have a population increase of just 2.5% over 2010 values. This is much lower than the average rate of the Coastal Region as a whole (29%) and also lower than the County's overall projected increase of 10.6% for that same time period. New development in Fair Haven is characterized by a lack of developable parcels.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.

**Summary of PRI Results for Farmingdale, Borough of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	0	#N/A	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Wave Action	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Possible	2	Minor	1	Moderate	3	Less than 6 hours	4	Less than one week	3	2.2	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind.

**Key Risk Findings:**

Shelters are not necessarily designed to adequately withstand severe storm characteristics (i.e., flood levels, wind loads).

The general public is lacking information to adequately shelter-in-place.

Flooding occurs regularly in the Borough and often impacts both residential and nonresidential structures.

Downed trees on power lines contribute to power outages during severe storms with high winds such as nor'easter, hurricanes, and tropical storms, etc.

Power outages have impacted emergency services, water purification systems, and shelters that lack secondary power sources.

- Farmingdale's population is projected to experience minimal growth through 2040. By the year 2040, it is projected to have a population increase of 6.3% over 2010 values. This is much lower than the average rate of the Western Region as a whole (31.7%) and somewhat lower than the County's overall projected increase of 10.6% for that same time period. With an area of only 1.5 square miles, Farmingdale has limited potential for development. Most new development is characterized by spot lot residential and limited commercial construction.

-Climate change will contribute to more frequent and severe weather events.

**Summary of PRI Results for Freehold, Borough of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	0	#N/A	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	#N/A	#N/A
Storm Surge	0	#N/A	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Wave Action	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Possible	2	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	2.0	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind.

**Key Risk Findings:**

- Downed trees on power lines contribute to power outages during severe storms with high winds such as nor'easter, hurricanes, and tropical storms, etc.
- The Hudson Manor Senior Citizen Building and the Rug Mill Towers Apartment Building have populations that are particularly susceptible to power outages during severe storms. Borough officials have worked with JCP&L to provide additional power paths to these facilities to mitigate this risk
- Critical facilities are particularly susceptible to power outages where backup power does not exist; this is a significant issue at the emergency operations center and at grammar schools that are designated as evacuation centers/shelters.
- The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities.
- Freehold Borough's population is projected to remain virtually static through 2040. By the year 2040, it is projected to have a population increase of 4.6% over 2010 values. This is much lower than the average rate of the Western Region as a whole (31.7%) and also lower than the County's overall projected increase of 10.6% for that same time period. The Borough of Freehold is virtually built-out, but new residential developments and condominiums, along with multi-story commercial/office spaces, do occur.
- Climate change will contribute to more frequent and severe weather events.

**Summary of PRI Results for Freehold, Township of**  
Category/Degree of Risk

Hazard	Category/Degree of Risk										Hazard Ranking	
	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE		PRI Score
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	2.9	M
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Dam Failure	Unlikely	1	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	0	#N/A	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Wave Action	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	Unlikely	1	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
<b>Other Natural Hazards</b>												
Wildfire	Likely	3	Critical	3	Moderate	3	Less than 6 hours	4	Less than one week	3	3.1	H

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind.

**Key Risk Findings:**

- Downed trees on power lines contribute to power outages during severe storms with high winds such as nor'easter, hurricanes, and tropical storms, etc.
- Power outages impact the Township's ability to maintain critical services and public safety. Power failure may result in lack of water and sewer service for township.
- Heavy sediment deposits in certain stream segments contribute to flooding during heavy rain events, nor'easters and hurricanes, etc.
- The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities.
- Freehold Township's population is projected to experience modest growth through 2040. By the year 2040, it is projected to have a population increase of 16.3% over 2010 values. This is lower than the average rate of the Western Region as a whole (31.7%) but somewhat higher than the County's overall projected increase of 10.6% for that same time period. While the Township is 94 percent built out, new development is expected along the Route 9 and Route 537 corridors.
- Climate change will contribute to more frequent and severe weather events.
- Freehold Township has a moderate extent of land in mapped high or extreme wildfire risk areas. Most at-risk areas are in the southern half of the Township.
- Rose Court: Undermining and damage to storm drainage pipe and flared end section at the top of a steep embankment (Rose Court, at the end of the cul-de-sac). Continued exposure to erosion will lead to further destruction to the adjacent storm drainage system as well the cause the flared end section to separate and fall off of the embankment. The continued erosion represent a environmental impact as well as a potential impact to existing structures and development.
- Plymouth Drive: The existing culvert at Plymouth Drive (Structure No. 1316X68) over the Tributary to the Manasquan River is in poor condition and has advanced section loss to the primary structural elements. Continued exposure to average and high frequency storms will further degrade the structure and lead to failure. The structure should rehabilitated.
- Hampton Drive: The existing culvert at Hampton Drive (Structure No. 1316X57) over the Tributary to the Manasquan River is in poor condition and has advanced section loss to the primary structural elements. Continued exposure to average and high frequency storms will further degrade the structure and lead to failure. The structure should rehabilitated.
- Medford Boulevard: Culvert is located on Medford Boulevard in Freehold Township NJ structure number 1316X64. Rehabilitation of the structure will include repairing the existing voids behind the side walls of the culvert with a concrete type material, lining the culvert with a high-density polyethylene elliptical pipe and grouting the annular space between the existing culvert and the lining. In conjunction with repair to the culvert rehabilitation to the adjacent embankments to prevent undermining and reduce or eliminate erosion.

**Summary of PRI Results for HAZLET**

Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Possible	2	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	2.0	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge.

**Key Risk Findings:**

- Sedimentation in local creeks and waterways exacerbates flooding.
- Drainage system features in certain areas are contributing to flooding in the Township.
- Hazlet's population is projected to experience minimal growth through 2040. By the year 2040, it is projected to have a population increase of 5.3% over 2010 values. This is similar to the average rate of the Bayshore Region as a whole (6.7%) but somewhat lower than the County's overall projected increase of 10.6% for that same time period. Hazlet is proactive in that new buildings are not permitted for construction in the 100-year floodplain.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.
- Portions of Hazlet are in mapped storm surge hazard areas. The flood gates on 1st street in the West Keansburg area are closed in the event of any storms, preventing a good portion of the flooding in the area. These gates held all the water back during Hurricane Sandy, eliminating any flooding.

**Summary of PRI Results for Highlands, Borough of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	Highly Likely	4	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	3.1	H
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	1.7	L

2000

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion, and wave action.

**Key Risk Findings:**

- Most of Highlands (from the Bay up to Shore Drive) is in the mapped special flood hazard area.
- Severe storm events in recent years, particularly Hurricane Sandy, have devastated the Borough. Most Borough facilities were rendered uninhabitable due to storm damage from Superstorm Sandy.
- The existing drainage system does not accommodate stormwater runoff from hill sections; this is exacerbated when coastal waters are high.
- Damages from coastal erosion and wave action in recent storms have been significant.
- The geography of the Borough of Highlands makes it highly susceptible to landslides and slump blocks, which occur regularly in the borough. Conditions are exacerbated on steepest slopes when soil water content is high and particularly when the ground is being disturbed (i.e. during construction).
- Downed trees on power lines contribute to power outages during severe storms with high winds such as nor'easter, hurricanes, and tropical storms, etc.
- Telecommunication and electrical systems at critical facilities including facilities used for EOC and as local shelters are negatively impacted during periods when power is out. Various hazards have historically crippled Borough communications and electrical systems for critical facilities including EOC and local shelters.
- Some emergency facilities and shelters built before existing codes were adopted are not designed to accommodate high wind loads that could be experienced during severe storms.
- Ten critical facilities in Highlands are located in one or more mapped hazard areas (flood, surge, erosion, landslide)
- Highlands' population is projected to remain virtually static through 2040. By the year 2040, it is projected to have a population increase of 2.2% over 2010 values. This is lower than the average rate of the Bayshore Region as a whole (6.7%) and also lower than the County's overall projected increase of 10.6% for that same time period. Many areas are being redeveloped, particularly near the waterfront, and some open areas are being developed with single and multi-family housing units. Much of the waterfront is business area zones that have already been developed with restaurants or marinas; restaurant/business renovations are typical here (not condo type development).
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.

**Summary of PPRI Results for Holmdel, Township of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Critical	3	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Wave Action	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Possible	2	Critical	3	Moderate	3	Less than 6 hours	4	Less than one week	3	2.8	M

80  
4320

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge.

**Key Risk Findings:**

- Failure of an emergency generator at a sewer pump station during Sandy highlighted that the Township sanitary sewer infrastructure (pump stations, sewer lines) is in need of mitigation at many locations.
- Holmdel's population is projected to grow fairly rapidly through 2040. By the year 2040, it is projected to have a population increase of 20.5% over 2010 values. This is lower than the average rate of the Central Region as a whole (31.1%) but higher than the County's overall projected increase of 10.6% for that same time period. Most of the undeveloped properties in the Township are zoned for single family homes in low-density, clustered developments.
- Holmdel is located inland from the Sandy Hook Bay shore. An extremely small portion of the Township lies within mapped storm surge hazard areas. Holmdel is largely protected from direct storm surge from Sandy Hook Bay by the communities of Keyport, Union Beach, and Keansburg (storm surge hazard areas are generally a result of tidal flooding along various streams that lead to the bay). Of the portion of the Township within mapped surge hazard areas, virtually 100% is either protected wetlands and/or a township park (Allocco Park). It is bordered by a stretch of Palmer Avenue which does suffer from road flooding but Palmer Ave is actually County Route 7 (mitigation of flooding on County Route 7 has already been identified as one of the County's mitigation actions for this plan update).
- As a result of Hurricane Sandy, downed trees and powerlines and associated power outages were widespread with only about 700 customers with service. Town Hall had to be closed, with the exception of limited emergency staffing. The Township did provide generators to some gas stations, but the stations were cut off from suppliers and therefore could only dispense what was already in their pumps. The Township notes that since the mid 1970s all developments and sub-divisions have been installing utilities underground and virtually 100% of the towns critical infrastructure has permanently installed emergency generation and this figure will rise to 100% by 2015 through the capital budget. Since Hurricane Irene, over 400 residential units have installed permanent emergency power and this figure continues to increase at a steady rate. Our Building and Zoning departments continually work with all applicants to ensure that the process is made as easy as possible. We also continue to "encourage" JCP&L to engage in aggressive vegetation trimming along their rights-of-way.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.

**Summary of PRI Results for Howell, Township of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Dam Failure	Unlikely	1	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Wave Action	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	Unlikely	1	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
<b>Other Natural Hazards</b>												
Wildfire	Likely	3	Critical	3	Moderate	3	Less than 6 hours	4	Less than one week	3	3.1	H

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge.

**Key Risk Findings:**

- Significant damage was incurred to structures and infrastructure throughout the Township as a result of Hurricanes Irene and Sandy.
- Existing shelters are not designed to withstand hazards to which they are exposed during severe storm events.
- The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities and were better able to shelter in place.
- Howell has a number of flood-prone properties on the NFIP Repetitive Loss List in need of mitigation.
- Emergency operations center lacks redundant systems (power and communication) to maintain critical functions before, during and after a disaster.
- Downed trees on power lines contribute to power outages during severe storms with high winds such as nor'easters hurricanes, and tropical storms, etc.
- Power outages have impacted emergency services, water purification systems, and shelters that lack secondary power sources.
- At the present time, most of the Township of Howell remains undeveloped. A full 58 percent is open space, woodland and brush; while an additional 11 percent is agricultural, orchards, and nurseries. New development tends to be broadly characterized by agricultural parcels being subdivided and developed with low-density, high value, single family homes. Howell's population is projected to experience modest growth through 2040. By the year 2040, it is projected to have a population increase of 12.1% over 2010 values. This is much lower than the average rate of the Western Region as a whole (31.7%) but higher than the County's overall projected increase of 10.6% for that same time period.
- While Howell is not located along the coast, some of its streams are susceptible to storm surge flooding.
- A large portion of Howell lies in areas mapped as posing high or extreme wildfire risk.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.

**Summary of PRI Results for Interlaken, Borough of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	1.7	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge.

**Key Risk Findings:**

- Deal Lake continues to be a major source of flooding in the Village. During severe storms, water drains into the Lake but outfall design constraints prevent the water from making its way into the ocean before water overflows the banks and floods back into surrounding areas.
- Sedimentation and debris in Deal Lake and its tributaries impedes flood flows.
- Damage and losses due to flooding are also incurred in Interlaken as a result of drainage system shortcomings; the Borough's drainage system cannot efficiently accommodate today's stormwater runoff volumes, and discharge this stormwater efficiently to ocean waters. This combined with flooding from Deal Lake which can be exacerbated
- Interlaken's population is projected to remain virtually static through 2040. By the year 2040, it is projected to have a population increase of only 1.2% over 2010 values. This is much lower than the average rate of the Coastal Region as a whole (29%) and also much lower than the County's overall projected increase of 10.6% for that same time period. This is because the borough is fully built out, with only 395 residential structures. There is no commercial or business district, and the only non-residential uses are borough-owned properties such as Borough Hall, the park, and arboretum. Interlaken has a population of only 820.
- Interlaken lacks direct coastal frontage. It is located off of the immediate coast, protected by portions of Loch Arbour, Asbury Park, and Deal Lake. Interlaken is bounded on three sides by Deal Lake and two of its tributaries, which are susceptible to storm surge flooding.
- One of the biggest problems faced by Interlaken in the aftermath of Hurricane Sandy was the magnitude and duration of power outages.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.

**Summary of PRI Results for Keansburg, Borough of**  
Category/Degree of Risk

Hazard	Category/Degree of Risk										Hazard Ranking	
	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE		PRI Score
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Large	4	6 to 12 hours	3	Less than one week	3	3.2	H
Storm Surge	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	1.7	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion, and wave action.

**Key Risk Findings:**

- Substantial damage throughout the Borough was incurred as a result of Superstorm Sandy. Many homes are being elevated as a result to comply with local ordinances.
- Keansburg's level of disaster resistance would benefit from enacting and enforcing flood hazard zoning ordinances.
- Damage and losses due to flooding are incurred in some parts of Keansburg as a result of drainage system shortcomings; the Borough's drainage system cannot efficiently accommodate today's stormwater runoff volumes, and discharge this stormwater efficiently to ocean waters.
- The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities
- Downed trees on power lines contribute to power outages during severe storms with high winds such as nor'easter, hurricanes, and tropical storms, etc.
- Power outages can severely impact critical facilities that lack secondary power sources.
- Use of water for landscaping purposes during periods of drought exacerbates drought impacts by shifting limited water resources away from the most critical needs.
- Keansburg is part of the USACE Raritan Bay and Sandy Hook Bay, New Jersey, Beach Erosion and Hurricane Protection Project. The project was constructed in 1973 provides beach erosion and hurricane protection (through reducing the risk of flooding and damages caused by storm surge and wave action). It includes sacrificial beach berm, groins, levees, floodwall, a storm closure gate, and a pump station. Hurricane Sandy exceeded the design level for this system, but the system did provide some protection nonetheless.
- Keansburg's population is projected to remain virtually static through 2040. By the year 2040, it is projected to have a population increase of only 2.7% over 2010 values. This is lower than the average rate of the Bayshore Region as a whole (6.7%) and also lower than the County's overall projected increase of 10.6% for that same time period. Limited new development and redevelopment in Keansburg is generally in the waterfront area, where townhouse/condo type residential and retail development tends to be most typical.
- Most of the Borough lies within mapped storm surge hazard areas. Keansburg was devastated by storm surge flooding during Hurricane Sandy.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.
- As a result of Hurricane Sandy, Police vehicles and equipment in the borough were damaged and response services were hindered because of the flood waters, debris and power outages.
- As a result of the drastic inundation of floodwater caused by Hurricane Sandy and other major storm events, the banks of Waackack Creek have become severely eroded and laden with silt and sand that was washed in from the bayshore beaches. As a result, areas of roadway located along the creek have begun to collapse. In addition the structural integrity of surrounding residential properties has been compromised, posing an imminent threat to life, health, & public safety.

**Summary of PRI Results for Keyport, Borough of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Possible	2	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	2.0	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion, and wave action.

**Key Risk Findings:**

- About half of the Borough of Keyport is susceptible to storm surge, mainly via tidal surges up local streams.
- The existing bulkhead system is comprised of both public and private bulkheads, and there are certain areas with no bulkheads. While the bulkhead system, in combination with some roads which have been raised, have worked to protect certain areas, locations where there are breaks in the line of protection are more vulnerable than other areas. Affected properties are largely commercial.
- Green Grove Avenue, providing access to Route 36 (a coastal evacuation route), floods in the area of the Chingarora Creek culvert crossing.
- Keyport's population is projected to remain virtually static through 2040. By the year 2040, it is projected to have a population increase of only 3.2% over 2010 values. This is lower than the average rate of the Bayshore Region as a whole (6.7%) and also lower than the County's overall projected increase of 10.6% for that same time period. Waterfront development is characteristic of new development in Keyport, with 10 new homes in the last five years, and plans for multi-family condos, all near the water.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.
- 95 homes encountered flood damage from storm tides and surges during Sandy, and elevation would mitigate against repeated loss of homes due to flooding.
- Flooding and damage to the sewer system pump stations can result in overflow of untreated sewage into natural waterways (i.e., Cedar Street, Maple Place)
- Insufficient roadway drainage (curbing, culverts, etc) leads to street flooding and flooding of multi-family, residential, and commercial properties. Lack of drainage and subsequent flooding hinder access to the Evacuation Route, and the emergency vehicles access to the roadway.
- Insufficient capacity of the stormwater system results in frequent flooding of residential and commercial areas
- The current Firemen's Park bulkhead height is not sufficient to mitigate against high tide and storm related flooding. This has been a repetitive loss area affecting public property and the safe enjoyment of recreational areas as well as safe passage through roadways and access to commercial properties.
- Blockages and backflow of tidal and stormwaters in drainage systems contributes to flooding of roadways, borOUGH, commercial and residential properties..

**Summary of PRI Results for Lake Como, Borough of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Wave Action	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Negligible	1	Less than 6 hours	4	Less than one week	3	1.5	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge.

**Key Risk Findings:**

- Lake Como is the primary source of flooding in the Borough. During severe storms, water drains into the Lake but outfall design constraints prevent the water from making its way into the ocean before water overflows the banks and floods back into surrounding areas.
- Lake Como's population is projected to remain essentially the same through 2040. By the year 2040, it is projected to have a population increase of only 0.6% over 2010 values. This is much lower than the average rate of the Central Region as a whole (31.1%) and also much lower than the County's overall projected increase of 10.6% for that same time period. Development is generally characterized by high density residential over commercial projects along Main Street; the remainder of the borough is built out, with limited redevelopment/alterations to existing structures.
- The entirety of Lake Como is in mapped storm surge hazard areas.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.
- Flooding of residential structures around Como Lake is a big issue for the Borough.
- Loss of power is possible during hazard events including flooding, surge, extreme wind, hurricane and tropical storm, nor'easter, extreme temperatures, and lightning. Academy Charter High School is an Emergency Shelter which lacks backup power. Facilities also lacking backup power include: OEM Central Command Center, Public Works Building, and the First Response Emergency Center.
- The Emergency Command Center lacks hurricane windows and roof straps and is susceptible to damage during high wind events.

**Summary of PRI Results for Little Silver, Borough of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Wave Action	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	Possible	2	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.5	M
<b>Other Natural Hazards</b>												
Wildfire	Possible	2	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	2.0	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion.

**Key Risk Findings:**

- Sedimentation and debris accumulation in local streams causes them to overflow their banks during periods of heavy rains and is exacerbated by storm surge during hurricanes and nor'easters (particularly, Town Neck Creek and Parkers Creek).
- Little Silver's population is projected to remain virtually static through 2040. By the year 2040, it is projected to have a population increase of only 4.6% over 2010 values. This is much lower than the average rate of the Coastal Region as a whole (29%) and also lower than the County's overall projected increase of 10.6% for that same time period. Little Silver is largely residential and continues to develop slowly, generally via renovation of existing homes, though there has been one new age restricted housing development.
- More than 50 percent of Little Silver lies within mapped storm surge hazard areas (tidal waters surging up the Shrewsbury River). New age restricted housing is within the mapped storm surge hazard area.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.
- Approximately, 30 single family homes are within the 100 year flood zone throughout the Borough. During extreme storm events these properties can experience flooding and property damage.

**Summary of PRI Results for Loch Arbour, Village of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Negligible	1	Less than 6 hours	4	Less than one week	3	1.5	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion, and wave action.

**Key Risk Findings:**

- Deal Lake continues to be a major source of flooding in the Village. During severe storms, water drains into the Lake but outfall design constraints prevent the water from making its way into the ocean before water overflows the banks and floods back into surrounding areas. In order to respond quicker to significant rain events and prevent flooding, the open and closing mechanism of the flume gates should be automated. During significant storm events when tidal surges occur, it becomes necessary to close the gates quickly to minimize ocean water infiltrating into the lake. The normal level of Deal Lake is only 3.2 feet above mean high tide.
- Sedimentation and debris in Deal Lake and its tributaries impedes flood flows.
- Loch Arbour is in a reach of the USACE Sea Bright to Manasquan, New Jersey, Beach Erosion Control Project that has never been constructed. The project area covers the 21 miles of coastline from Sea Bright south to Manasquan, except for three miles of shoreline from Lake Takanasee in Long Branch south through Deal, Allenhurst, and Loch Arbour to the Deal Lake outfall.
- Loch Arbour's population is projected to remain virtually static through 2040. By the year 2040, it is projected to have a population increase of only 4.5% over 2010 values. This is much lower than the average rate of the Coastal Region as a whole (29%) and also lower than the County's overall projected increase of 10.6% for that same time period. This is because the Village is fully built-out and any development is predominantly in the form of demo-rebuild.
- During Hurricane Sandy, the beachfront was eroded away into the surf. The Shoreline was left exposed causing extensive property and roadway infrastructure damage limiting the Village's ability to provide critical emergency services. Ocean Avenue was undermined in the vicinity of an ocean front tract at its border with Asbury Park. A private beach club on this tract was heavily damaged. The tract is bounded on one side by a Village-owned beach club, and on the south by a parcel that is being considered for open space acquisition. The Village views this property as an ideal location for a shore protection project; it is where the worst flooding of Sandy was. The ocean came over into Deal Lake and undermined Ocean Avenue in the vicinity of this property.
- All of Loch Arbour is within mapped storm surge hazard areas.
- Loch Arbour's capabilities are limited, due in part to its population of only 194 residents (making it the least populated community in Monmouth County). It is an eight block area bounded by Deal Lake on the South, Main Street on the west, the Atlantic Ocean on the east, and Elberon Avenue along most of its northern border. The Village is fully built out.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.
- Presently there are no storm water retention basins with the ability to correctly control the rate, amount or quality of runoff generated from any of the State of NJ Highways that transverse the Deal Lake watershed. As a result, waterfront properties within watershed flood regularly.

**Summary of PRI Results for Long Branch, City of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	1.7	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion, and wave action.

**Key Risk Findings:**

- The northern and western areas of the city are susceptible to flood/surge. Most of North Long Branch was flooded during Hurricane Sandy, from both coastal flooding and backwater flooding from the Shrewsbury River and its tributaries. There was significant damage to public and private property and infrastructure.
- Various locations throughout the City flood when local drainage cannot exit the system due to submerged outfalls and associated backflow.
- Areas surrounding City Hall from Broadway to Morris Avenue flood during periods of excess rainfall.
- Flash flooding has been an issue under the NJ Transit Railroad trestle near train station
- The portion of Long Branch from Lake Takanasee to the northern city limit is included in the USACE Sea Bright to Manasquan, New Jersey, Beach Erosion Control Project. The project covers the 2.1 miles of coastline from Sea Bright south to Manasquan (except for three miles of shoreline from Lake Takanasee to the northern city limit) it involves a 100 foot wide beach berm at elevation +7.3 ft NAVD, with a width from the project baseline of 100ft. A two foot berm cap, 80ft wide from the baseline, was designed at elevation +9.3ft NAAVD to prevent frequent overtopping of the berm from wave runoff.
- Long Branch's population is projected to remain virtually static through 2040. By the year 2040, it is projected to have a population increase of only 3.8% over 2010 values. This is much lower than the average rate of the Coastal Region as a whole (29%) and also lower than the County's overall projected increase of 10.6% for that same time period.
- Long Branch is implementing a development plan, the first phase of which was the recent Pier Village, a high density residential commercial mix on the waterfront. The City will be implementing the next four phases of its plan, two of which include high density residential/commercial beachfront development.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.
- Flooding/surge has historically been an issue in and around Lake Takanasee and Elberon Trestle as well as the Manhasset Creek Park Complex during severe storms

**Summary of PRI Results for Manalapan, Township of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Dam Failure	Unlikely	1	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	0	#N/A	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Wave Action	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Possible	2	Minor	1	Moderate	3	Less than 6 hours	4	Less than one week	3	2.2	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind.

**Key Risk Findings:**

- Residential structures along Birmingham Drive are located in floodplain of the Pine Brook.
- Manalapan's population is projected to experience modest growth through 2040. By the year 2040, it is projected to have a population increase of only 10% over 2010 values. This is much lower than the average rate of the Western Region as a whole (31.7%) but on par with the County's overall projected increase of 10.6% for that same time period. Development in Manalapan has slowed since the recession of 2008. Township development regulations include a flood hazard area overlay zone which prohibits most types of development in the 100-year floodplain.
- Climate change will contribute to more frequent and severe weather events.

Summary of PRI Results for Manasquan, Borough of

Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Sea level rise	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	1.7	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion, and wave action

**Key Risk Findings:**

- Nearly all of Manasquan is within mapped storm surge hazard areas. During Hurricane Sandy, most of the Borough was flooded from storm surge.
- As a result of Hurricane Sandy, Manasquan's critical infrastructure and emergency response systems were severely impacted; the lack of back-up power systems, redundant communication and public warning systems, and fall-back emergency and governmental operations centers had a significant impact on the Borough's ability to maintain critical functions and operations before, during and after the event. Damages were extensive and significant, particularly to those structures closest to the shore.
- Roughly half of the Borough is located in the special flood hazard area. Some of this is coastal, but much is due to backwater effects from the Manasquan River and its tributaries.
- The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities.
- More than half of the Borough is in mapped storm surge inundation zones.
- Manasquan is part of the USACE Sea Bright to Manasquan, New Jersey, Beach Erosion Control Project. The project covers the 21 miles of coastline from Sea Bright south to Manasquan (except for three miles of shoreline from Lake Takanasee in Long Branch south through Deal, Allenhurst, and Loch Arbour to the Deal Lake outfall). It involves a 100 foot wide beach berm at elevation +7.3 ft NAVD, with a width from the project baseline of 100ft. A two foot berm cap, 80ft wide from the baseline, was designed at elevation +9.3ft NAVD to prevent frequent overtopping of the berm from wave runoff.
- Manasquan's coastline is subject to erosion and the ongoing renourishment of the USACE project is of the utmost importance.
- Manasquan's population is projected to remain virtually static through 2040. By the year 2040, it is projected to have a population increase of only 3.2% over 2010 values. This is much lower than the average rate of the Coastal Region as a whole (29%) and als lower than the County's overall projected increase of 10.6% for that same time period. Manasquan is a built-out, year-round residential community. New development primarily consists of demo-rebuilds, many of which are near the oceanfront.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.
- Limited local funding is available for hazard mitigation activities
- The Borough is lacking an understanding of which specific structures, facilities & equipment are vulnerable to the above hazards
- The hazard mitigation plan must be monitored in order to gauge its success and accomplish updates as required
- The Borough is lacking a comprehensive, all hazards, public information program
- The Borough is lacking critical public warning capabilities
- The Borough has no plan for dealing with drought emergencies
- The Borough has structures, including critical facilities and equipment, vulnerable to earthquakes
- The Borough has critical facilities and equipment that are vulnerable to power failure
- The Borough has critical facilities and equipment that are vulnerable to damage from lightning strikes
- The Borough has a 1-mile long unprotected coastline exposed to the ocean and storms
- The Borough has a significant number of natural buffers including dunes, salt marshes, coastal wetlands, maritime forests, stream corridors and natural floodplains that are in a deteriorated stat that can provide significant natural buffers and flood mitigation
- The Borough would benefit from increasing participation in the National Flood Insurance Program (NFIP) Community Rating System (CRS)
- The Borough has residential, commercial and public structures, critical facilities, and equipment located in high-hazard areas and vulnerable to flooding, wave action, high winds, storm surge, and sea level rise.
- The Borough has roads and infrastructure located in high-hazard areas vulnerable to flooding, storm surge, and sea level rise

**Summary of PRI Results for Marlboro, Township of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	0	#N/A	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Wave Action	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Possible	2	Minor	1	Moderate	3	Less than 6 hours	4	Less than one week	3	2.2	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind.

**Key Risk Findings:**

- The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities.
- Sedimentation and debris accumulation in local streams causes them to overflow their banks during periods of heavy rains and is exacerbated during severe events such as tropical storms, hurricanes, and nor'easters.
- Marlboro's population is projected to experience modest growth through 2040. By the year 2040, it is projected to have a population increase of 10.8% over 2010 values. This is much lower than the average rate of the Western Region as a whole (31.7%) but on par with the County's overall projected increase of 10.6% for that same time period. Marlboro is seeing a mix of development types; some low-density residential on lots of 1 acre or larger, and some high-density high occupancy residential, and commercial. Development in the 100-year floodplain is precluded.
- Climate change will contribute to more frequent and severe weather events.
- There is a need for improving the timeliness and accuracy of information being provided to allow residents to ensure preparedness and allow them to make educated decisions regarding their own health and safety and property protection/mitigation measures
- Maintaining the operation of critical infrastructure during storm events is critical; however, some systems lack backup sources of power that would ensure their operability during a power outage (i.e., Telement Road Water Treatment Plant and Pump Station; Water Utility wells 3 and 4 at the Harbor Road Water Treatment Plant; and the Recreation Center (shelter))

**Summary of PRI Results for Matawan, Borough of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Dam Failure	Unlikely	1	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Possible	2	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	2.0	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge.

**Key Risk Findings:**

- A need has been identified for auxiliary power to the Matawan Municipal Community Center/Borough Hall Complex as a result of Hurricane Sandy.
- The Lake Lefferts Dam and the Matawan Lake Dam are both high hazard dams noted by the municipality as in need of replacement. Lake Lefferts: Potential for extensive damage downstream from Lake Lefferts to include the NJ Transit North Jersey Coast Railroad bridge over Matawan Creek. Slope failure and erosion to numerous lakefront homes. Environmental and wildlife issues associated with the draining of the lake. Flooding occurs during severe storms such as due to nor'easters and/or hurricanes. Lake Matawan: Potential for extensive damage to the surrounding properties of Lake Matawan to include Main Street (County Route 516). Slope failure and erosion to numerous lakefront homes. Environmental and wildlife issues associated with the draining of the lake. Flooding occurs due to severe storms such as nor'easters and/or hurricanes.
- Aberdeen Road - downstream from Lake Lefferts - is subject to recurrent flooding. Aberdeen Road becomes impassable due to tidal flooding at virtually every high tide creating a delay in emergency response for both Matawan and Aberdeen Emergency Services.
- Matawan's population is projected to experience minimal growth through 2040. By the year 2040, it is projected to have a population increase of 5.2% over 2010 values. This is much lower than the average rate of the Coastal Region as a whole (29%) and lower than the County's overall projected increase of 10.6% for that same time period.
- A large portion of Matawan is mapped in storm surge hazard areas. However, during Hurricane Sandy, storm surge on tidally influence waterways remained primarily in undeveloped areas.
- Matawan is almost fully built out. A large scale redevelopment project is in initial stages for the entire area of the Matawan-Aberdeen train station. This area is within flood and storm surge hazard areas, but is regulated in accordance with borough ordinances governing floodplain management.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.

**Summary of PRI Results for Middletown, Township of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	Unlikely	1	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	Possible	2	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.5	M
<b>Other Natural Hazards</b>												
Wildfire	Possible	2	Minor	1	Moderate	3	Less than 6 hours	4	Less than one week	3	2.2	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion, and wave action.

**Key Risk Findings:**

- Hurricane Sandy highlighted shortcomings in the existing shoreline protection system.
- Many homes within mapped flood hazard areas are below the base flood elevation.
- Streams and ditches in flood hazard areas do not convey storm flows as efficiently as they should; this results in flooding in several areas. In addition to a flood hazard, accumulated dead vegetation poses a fire hazard.
- Invasive plant species are becoming prominent in wetland areas, thus decreasing storage capacities.
- Stormwater management infrastructure does not convey storm flows as efficiently as it should.
- The portion of Middletown along the coastline from the Keansburg border to Pews Creek ("East Keansburg") is part of the USACE Raritan Bay and Sandy Hook Bay, New Jersey, Beach Erosion and Hurricane Protection Project. The project was constructed in 1973 provides beach erosion and hurricane protection (through reducing the risk of flooding and damages caused by storm surge and wave action). It includes sacrificial beach berm, groins, levees, floodwall, a storm closure gate, and a pump station. Hurricane Sandy exceeded the design level for this system, but the system did provide some protection nonetheless.
- Middletown's population is projected to experience minimal growth through 2040. By the year 2040, it is projected to have a population increase of 6.2% over 2010 values. This is much lower than the average rate of the Central Region as a whole (31.1%) and lower than the County's overall projected increase of 10.6% for that same time period. Middletown is experiencing new development primarily in the form of subdivisions. The Bayshore area is essentially built out, though some infill development possibilities exist. In addition, some multi-family development is occurring near the waterfront, and an area of 10-15 acres adjacent to the commercial fishing cooperative is slated for redevelopment.
- A substantial portion of Middletown lies within mapped storm surge hazard areas, including locations well inland of the Sandy Hook Bay shore, as well as areas along the Navesink River and its tributaries.
- During Hurricane Sandy, Middletown's Sandy Hook Bay communities of Port Monmouth, Belford, and Leonardo experienced storm surge flooding over a very large area generally north of Route 36 (though tidal flooding along Pews Creek and Compton Creek did extend south of Route 36). Communities in these areas were severely impacted. Along the Navesink and its tributaries, flooding tended to be more constrained to undeveloped floodplains and marina areas; however, along the meandering Swimming River, overbank flooding did affect some homes and businesses.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.
- During extreme lunar tides, the flood protection provided by the newly constructed Wilson Ave slide gate is compromised and there is a tidal flow of water from Compton's Creek across Main Street into the residential properties between Main St. and Brainard Ave.
- The drainage system is then quickly inundated and the streets become flooded, negating the intended positive effects of the Wilson Ave flood gate.
- Our Fire Companies & First Aid Squads have identified the need to install standby generators at their buildings to remain operational during emergencies.
- The fire companies are located in The flood plain, experienced flooding and sustained water damage as a result of Superstorm Sandy

**Summary of PRI Results for Millstone, Township of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Dam Failure	Unlikely	1	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	0	#N/A	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Wave Action	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Possible	2	Limited	2	Moderate	3	Less than 6 hours	4	Less than one week	3	2.5	M

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind.

**Key Risk Findings:**

- Streams and ditches, and stormwater management infrastructure, do not convey stormwater runoff as efficiently as they should; this results in flooding in several areas.
- Tree damage during severe storms such as hurricanes, tropical storms, nor'easters, and winter storms has been known to block roadways, and interrupt power as lines are downed.
- Severe storms disrupt major portions of the town with a high degree of long duration power outages, primarily from downed trees and flooding. Because Millstone is a well and septic community, no power means no water or sewer either.
- Much of Millstone Township is located in mapped moderate to extreme wildfire risk areas.
- Millstone's population is projected to experience minimal growth through 2040. By the year 2040, it is projected to have a population increase of 6% over 2010 values. This is higher than the average rate of the Panhandle Region as a whole (1.6%) and lower than the County's overall projected increase of 10.6% for that same time period. Development is currently permitted along stream corridors, though the Township strictly enforces ordinances that protect new development from natural hazards including flooding.
- Climate change will contribute to more frequent and severe weather events.

**Summary of PRI Results for Monmouth Beach, Borough of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Large	4	6 to 12 hours	3	Less than one week	3	3.2	H
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	1.7	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion, and wave action.

**Key Risk Findings:**

- Hurricane Sandy highlighted the Borough's susceptibility to erosion during severe storms; significant volumes of sand were lost.
- The elevation of the existing retaining wall at Shorelands Park is not high enough, and when it is overtopped, residential structures incur significant damage, and flooding at the park results in erosion, litter and derisk, and changes to the parks topography.
- Monmouth Beach is located on a narrow strip of land just south of Sea Bright. All of Monmouth Beach is in an areas mapped as potentially susceptible to storm surge. Most of Monmouth Beach was inundated during Hurricane Sandy; a great deal of this was back bay flooding.
- The Borough's drainage system does not currently accommodate typical periods of high runoff; this causes flooding in locations such as Johnson St./Anderson St./Drew Ct./Valentine St.
- Monmouth Beach is part of the USACE Sea Bright to Manasquan, New Jersey, Beach Erosion Control Project. The project covers the 21 miles of coastline from Sea Bright south to Manasquan (except for three miles of shoreline from Lake Takanasee in Long Branch south through Deal, Allenhurst, and Loch Arbour to the Deal Lake outfall). It involves a 100 foot wide beach berm at elevation +7.3 ft NAVD, with a width from the project baseline of 100ft. A two foot berm cap, 80ft. wide from the baseline, was designed at elevation +9.3ft NAAVD to prevent frequent overtopping of the berm from wave runoff.
- Monmouth Beach's population is projected to remain essentially the same through 2040. By the year 2040, it is projected to have a population increase of only 1% over 2010 values. This is much lower than the average rate of the Coastal Region as a whole (29%) and also much lower than the County's overall projected increase of 10.6% for that same time period. Development in Monmouth Beach is predominantly redevelopment of existing property.
- Monmouth Beach drainage system and roadway improvements could mitigate flooding in certain areas. The Borough pursues seawall reconstruction to prevent encroaching ocean tides.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.
- Flooding occurs in the residential area around the pump station at the northern terminus of Monmouth Parkway.
- The massive storm surges from Hurricane Sandy carried water over the existing Sea Wall and caused severe flooding and significant damages to both private residences and commercial business throughout the Borough.

**Summary of PRI Results for Neptune City, Borough of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
North-easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Small	2	6 to 12 hours	3	Less than one week	3	2.8	M
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	1.7	L

**Mitigation Strategy: Mitigate Highest Hazards**

North-easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion.

**Key Risk Findings:**

- Power outages have been frequent occurrences in the Borough. During severe storms, this impacts public buildings and disrupts local government operations and does not allow the Borough to shelter its emergency personnel. During storm events it is critical to maintain emergency services throughout the Borough. To maintain these services emergency power is needed until primary power source is restored.
- Most of the Borough is in areas mapped as potentially susceptible to storm surge. Thankfully, during Hurricane Sandy, the inundation area was limited fairly close to the Shark River.
- Some areas inundated during Sandy included: East End Ave., Windsor Ct., Route 35, and Steiner Ave. between Route 35 and 3rd Ave.
- Drainage system does not efficiently convey stormwater runoff; this results in flooding in several areas.
- Local officials have noted that since Hurricane Sandy the tides of the Shark River are exceptionally low and exceptionally high.
- Neptune City's population is projected to remain virtually static through 2040. By the year 2040, it is projected to have a population increase of only 3.7% over 2010 values. This is much lower than the average rate of the Coastal Region as a whole (29%) and also much lower than the County's overall projected increase of 10.6% for that same time period. Neptune City is about 96 percent developed.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.
- During storm events it is critical to provide showers and temporary sleeping facilities for emergency personnel and evacuated residents. The OEM operation during storm events is paramount to the communities' health and welfare. The ability to provide emergency services during a storm event is critical to maintaining the communities' health and safety.
- During storm events it is critical to maintain emergency equipment throughout the Borough. The OEM operation during storm events is paramount to the communities' health and welfare. The ability to provide emergency services during a storm event is critical to maintaining the communities' health and safety.

- During storm events it is critical to maintain sanitary services throughout the Borough. The pump station's continuous operation during storm events is paramount to the communities' health and welfare. The ability to provide continuous sanitation service during a storm event is critical to maintaining the communities' health and limiting the potential viral outbreaks associated with poor sanitation conditions. The conditions affecting the Sanitary Pump Station can be described as extreme wind, flooding, and storm surge. These conditions are associated with conditions that occur during a hurricane storm event along a coast. Non-sanitary conditions pose a critical health hazard. While no one has been killed or become deathly ill from the sanitary pump station being offline the fact remains that non-sanitary conditions pose a direct health concern for the immediate municipality and surrounding hospitals/ residents within the adjoining area.

**Summary of PRI Results for Neptune Township of Category/Degree of Risk**

Hazard	Category/Degree of Risk										Hazard Ranking	
	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE		PRI Score
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	Unlikely	1	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Possible	2	Minor	1	Moderate	3	Less than 6 hours	4	Less than one week	3	2.2	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion, and wave action.

**Key Risk Findings:**

- Neptune Township is a coastal community with a substantial amount of land lying within mapped flood and storm surge hazard areas.
- During Hurricane Sandy significant storm surge flooded areas near the Shark River, Fletcher Lake, Wesley Lake, Lake Alberta, and Atlantic Ocean. Both private homes and public infrastructure were impacted. Some structures need to be elevated; others in more low-lying areas would seem to be good candidates for acquisition (particularly: Shark River Hills, South Riverside Drive, and Shark River Memorial Park).
- Hurricane Sandy highlighted gaps in the existing bulkhead system and associated flood impacts. Some areas are void of bulkheading; others have bulkhead elevations that are too low.
- Hurricane Sandy highlighted pump stations that are in need of water tight doors.
- Backflow of tides into the drainage system at the outfalls creates flooding when the system is full of tidal water instead of runoff.
- The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities.
- Debris and siltation in streams, waterways (Shark River) and Lakes (i.e. Fletcher/Wesley/Alberta) obstructs flood flows. Limited capacity causes evacuations, road closures, property damage.
- Local officials note areas along the Shark River with unstable banks.
- Erosion is an issue for coastal waterfront at Ocean Beach.
- Neptune Township is part of the USACE Sea Bright to Manasquan, New Jersey, Beach Erosion Control Project. The project covers the 21 miles of coastline from Sea Bright south to Manasquan (except for three miles of shoreline from Lake Takanasee in Long Branch south through Deal, Allenhurst, and Loch Arbour to the Deal Lake outfall). It involves a 100 foot wide beach berm at elevation +7.3 ft NAVD, with a width from the project baseline of 100ft. A two foot berm cap, 80ft wide from the baseline, was designed at elevation +9.3ft NAAVD to prevent frequent overtopping of the berm from wave runoff.
- Neptune's beach (Ocean Grove area) is subject to erosion and the ongoing renourishment of the USACE project is of the utmost importance.
- Neptune Township's population is projected to experience modest growth through 2040. By the year 2040, it is projected to have a population increase of 11.6% over 2010 values. This is much lower than the average rate of the Coastal Region as a whole (29% but on par with the County's overall projected increase of 10.6% for that same time period. Moderate to dense development is occurring and planned for waterfront areas.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.
- Persons living and working in flood hazard areas do not always have enough time to prepare and evacuate floodprone areas.

**Summary of PRI Results for Ocean, Township of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	2.9	M
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	1.7	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge.

**Key Risk Findings:**

- Despite being some distance inland, with no direct coastal frontage, Ocean Township has tidally influenced tributaries to Deal Lake that are susceptible to storm surge. During Hurricane Sandy, Ocean Township was impacted by a significant storm surge. Many structures need to be elevated or demolished.
- There are some pumping stations in low-lying areas that need water tight doors to minimize flood impacts in the future.
- Flooding is an issue from Deal Lake, Poplar Brook, Harvey Brook, and Whalepond Brook. Local officials feel that detention should be explored for Whalepond Brook, in particular, to detain peak flood flows.
- Culverts under certain roadways in the Township are undersized; this results in backwater flooding on the upstream side of the culverts. This is a particular issue for Poplar Brook.
- Power outages have been frequent occurrences in the Township during severe storms. This impacts telecommunications and electrical systems at public buildings and critical facilities, and disrupts local government operations (including the Emergency - Ocean Township's population is projected to experience minimal growth through 2040. By the year 2040, it is projected to have a population increase of 5% over 2010 values. This is much lower than the average rate of the Coastal Region as a whole (29%) and also lower than the County's overall projected increase of 10.6% for that same time period. There is a substantial amount of commercial redevelopment along Hwy 35. Residential development tends to be fill and age-restricted adult communities. Variances are required for any new construction in flood hazard areas.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.
- Poplar Brook floods # \_\_\_\_\_ homes along Brookside Ave and the road itself (an evacuation route), located within the 10 year flood zone and are susceptible to flooding. The flooding is due either to a storm event, high tide or combination of both. Since the existing outfall of the brook is only into the Atlantic Ocean, as high tides comes in, the water elevation continuously backs up into the system seeking it's own level, thereby flooding streets, low lying areas, into the living areas of several homes on Brookside Ave. The floodprone homes include 1 on the Severe Repetitive List (SRL), 3 on the Repetitive Flood Claims (RFC) list, and most of the others have submitted at least two insurance claims to their insurance companies, NFIP or FEMA. We would also be protecting the

**Summary of PRI Results for Oceanport, Borough of**  
Category/Degree of Risk

Hazard	Category/Degree of Risk										Hazard Ranking	
	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE		PRI Score
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	Unlikely	1	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	1.7	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion, and wave action.

**Key Risk Findings:**

- Due to its location on a peninsula Oceanport is highly susceptible to storm surge.
- Oceanport was severely impacted during Hurricanes Irene and Sandy.
- Most of Oceanport lies within mapped storm surge hazard areas. Flooding is primarily from Parkers Creek, Oceanport Creek, Blackberry Creek, and Branchport Creek (Shrewsbury River tributaries). Borough Hall is in an area susceptible to storm surge and was wiped out during Hurricane Sandy. Meetings of the Mayor and Council and Planning Board are still being held at the Maple Place School.
- Most of the Borough was flooded during Hurricane Sandy. More than half (1,200) of the borough's 2,100 households had some sort of damage; about 800 of those homes were damaged due to flooding. The borough itself submitted more than 400 claims to FEMA for damages, while individuals submitted more than 700 flood insurance claims. As of fall 2013, 50 demolitions had been completed and applications for more were pending. About 200 homeowners were substantially damaged and were looking to elevate DPW is an area susceptible to storm surge.
- Debris/sediment accumulation on Turtle Mill Brook is believed to be impeding flood flows and causing flooding of roadways and adjacent properties.
- Stormwater infrastructure (particularly in the Port-au-Pecksection) does not allow for efficient and effective drainage and flooding occurs.
- Roadway flooding occurs in certain areas due to issues with grading, roadway elevations themselves, and lack of backflow prevention.
- Storm surge debris has accumulated in ditches and the stormwater drainage system, impeding todays flood flows and flooding roadways.
- Roadway drainage shortfalls create situations that cause flooding.
- Oceanport Township's population is projected to grow fairly significantly through 2040. By the year 2040, it is projected to have a population increase of 35.9% over 2010 values - one of the highest rates in the county. This is higher than the average rate of the Coastal Region as a whole (29%) and also much than the County's overall projected increase of 10.6% for that same time period. Oceanport is seeing new development in the form of larger subdivisions as well as age restricted housing developments and complexes, with accompanying commercial development in the vicinity. Redevelopment of Fort Monmouth will be occurring. Waterfront areas are seen as prime locations by developers. The Borough looks to redevelop the municipal center marina, retail, and mixed income housing. New developments and substantial improvements are regulated so that the first floors must be to the BFE+2.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.
- Locations used in major storm events for police operations, public works and/or sheltering do not have emergency generators for power.

**Summary of PRI Results for Red Bank, Borough of**  
Category/Degree of Risk

Hazard	Category/Degree of Risk										Hazard Ranking	
	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE		PRI Score
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Limited	2	Negligible	1	More than 24 hours	1	Less than one week	3	2.1	L
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Small	2	6 to 12 hours	3	Less than one week	3	2.8	M
Storm Surge	Likely	3	Catastrophic	4	Small	2	More than 24 hours	1	Less than one week	3	2.9	M
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	1.7	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, and wave action.

**Key Risk Findings:**

- Local ordinances sometimes preclude structure elevations due to height restrictions; a system should be put in place to accommodate variances for flood mitigation purposes.
- The Borough lacks a means of notifying residents of impending severe weather in cases where methods of Media broadcasting or other conventional means of warning have been compromised.
- Flooding and erosion are a significant issue in the Marine Park area. Damages occur to the park and park accessways. The existing bulkhead has been unable to prevent storm surges from damaging infrastructure, but did prevent erosion to the park.
- The existing water and sewer system does not allow for efficient and effective drainage and flooding occurs. Storm drains become overwhelmed and flood the streets. When the system is impaired, water can enter structures at the grade level. The existing water and sewer system is antiquated, in need of upgrades, and has areas where materials are decomposing. Failure of sewer system would cause biological and environmental harm to the residents and property of the Borough of Red Bank.
- A study has been done on the Borough's critical facilities in hazard areas to determine existing level of protection, and various mitigation recommendations have been made. Plans for implementing these recommendations should be part of the mitigation strategy.
- Several commercial properties, Primary School, residential units including a 90 bed convalescent center, and a Hotel all within the flood zone.
- During Hurricane Sandy, storm surge flooding was observed along the immediate shoreline of the Navesink and Swimming Rivers. The marina area was heavily impacted. The Red Bank Primary School located on the banks of the Swimming River, was flooded. The flooring was damaged significantly. Students of the primary school were transferred to the middle school, where split sessions were held for middle and primary school students while repairs were being made. A
- The Chapin Hill nursing home and rehabilitation facility is located within the Swimming River floodplain. During Hurricane Sandy, storm surge entered the first floor of the building. The facility was also impacted during Hurricane Irene, when 80 residents were moved to the Salvation Army at Red Bank for temporary shelter.
- Red Bank's population is projected to increase by 10.1% by 2040, which is similar to the county-wide trend, but lower than the overall trend for Coastal areas of a 29% increase over the same time period.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.

**Summary of PRI Results for Roosevelt, Borough of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Minor	1	Small	2	6 to 12 hours	3	Less than one week	3	2.2	L
Storm Surge	0	#N/A	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Wave Action	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Possible	2	Critical	3	Large	4	Less than 6 hours	4	Less than one week	3	3.0	H

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind.

**Key Risk Findings:**

- Roosevelt's floodplain (Rocky Brook, and Assunpink Creek headwaters) is limited, and does not impact residential areas. Ordinances preclude any future development in areas susceptible to flooding.
- Wildfires are of particular concern to Roosevelt because of wildfire risk areas both within and surrounding the Borough, given the relatively few number of roads in and out of town for egress.
- Mitigation of the wind/snow component of nor'easters through forestry management practices could also provide some degree of wildfire mitigation (and conversely), depending on the nature and the type of the activity.
- Roosevelt's population is projected to remain essentially the same through 2040. By the year 2040, it is projected to have a population increase of just 0.9% over 2010 values. This is somewhat lower than the average rate of the Panhandle Region as a whole (1.6%) and much lower than County's overall projected increase of 10.6% for that same time period. Development restrictions in the Borough preclude most new development, and local opposition often limits other development. Open space preservation effort are predominant, and generally, there is one new house built every few years. There is one small industrial and commercial area with no development planned for either. Mapped flood hazard areas are constrained to Borough-owned lands that will not be developed.
- Climate change will contribute to more frequent and severe weather events.
- Property owners dispose of brush infrequently and tend to leave it in the woods adjoining their properties.
- Brush and dead trees accumulate in woodlands owned by the borough, the Monmouth County Park Service, NJDEP and private landowners.

**Summary of PRI Results for Rumson, Borough of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	Possible	2	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.5	M
<b>Other Natural Hazards</b>												
Wildfire	Possible	2	Critical	3	Moderate	3	Less than 6 hours	4	Less than one week	3	2.8	M

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion, and wave action.

**Key Risk Findings:**

- Social impacts of flooding could be reduced (lowered probability of deaths/injuries) with early flood warning for those living and working in the Shrewsbury and Navesink River floodplains.
- Debris/sediment in local streams and ponds impede efficient drainage of flood prone areas.
- Roughly half of Rumson lies within mapped storm surge hazard areas. Hurricane Sandy's storm surge on the Shrewsbury and Navesink Rivers inundated a large area of Rumson, not previously recognized by local residents as particularly susceptible to surge. By far, the larger areas inundated were on the south side of the Borough along the Shrewsbury.
- Rumson Fair Haven Regional High School and Rumson Middle School are designated shelters; however, backup power is needed for safe sheltering.
- Downed trees due to high winds during severe storms (including, but not limited to, Hurricanes Sandy and Irene) have blocked roadways and downed power lines.
- A high proportion of land in the Borough of Rumson is identified as a moderate wildfire risk area, of particular concern from an egress perspective given Rumson's location on a peninsula.
- Mitigation of the wind component of nor'easters, hurricanes, and tropical storms through forestry management practices could also provide some degree of wildfire mitigation (and conversely), depending on the nature and the type of the activity.

- Rumson's population is projected to experience minimal growth through 2040. By the year 2040, it is projected to have a population increase of just 6.9% over 2010 values. This is much lower than the average rate of the Coastal Region as a whole (29%) and somewhat lower than County's overall projected increase of 10.6% for that same time period. The borough is almost fully built-out. New development tends to be demolition of single structures and replacement with two structures on the same lot.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.

**Summary of PRI Results for Sea Bright, Borough of**  
Category/Degree of Risk

Hazard	Category/Degree of Risk										Hazard Ranking	
	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE		PRI Score
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Large	4	6 to 12 hours	3	Less than one week	3	3.2	H
Storm Surge	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Negligible	1	Less than 6 hours	4	Less than one week	3	1.5	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion, and wave action.

**Key Risk Findings:**

- Since Hurricane Sandy the Borough has generally become more proactive than reactive in its approach to disaster resistance and sustainability.
- Virtually all of Sea Bright lies within mapped storm surge hazard areas. Homes are repetitively damaged due to flooding and storm surge, as is the Downtown District. The Borough of Sea Bright was almost entirely inundated during Hurricane Sandy.
- A large number of homes were flooded during Hurricane Sandy where their first floors were below the base flood elevation. Some also incurred wave damage. Those that were substantially damaged or destroyed must be rebuilt to code, effectively elevating them, but those that were not substantially damaged that did not face the elevation requirement as a condition of rebuilding would be good candidates for an elevation project if they have not already opted to do so.
- Sea Bright is part of the USACE Sea Bright to Manasquan, New Jersey, Beach Erosion Control Project. The project covers the 21 miles of coastline from Sea Bright south to Manasquan (except for three miles of shoreline from Lake Takanaasee in Long Branch south through Deal, Allenhurst, and Loch Arbour to the Deal Lake outfall). It involves a 100 foot wide beach berm at elevation +7.3 ft NAVD, with a width from the project baseline of 100ft. A two foot berm cap, 80ft wide from the baseline, was designed at elevation +9.3ft NAAVD to prevent frequent overtopping of the berm from wave runoff.
- Route 36 is an evacuation route and must be protected from flooding surge and erosion. It is of particular importance in Sea Bright because of its location on the very narrow spit of land between the Shrewsbury River and the Atlantic Ocean. The Sea Wall extends along most of the eastern portion of the community, there are missing segments and discontinuity along the length of the wall. As a result, areas of the Borough are vulnerable and exposed to water damage and flooding during storm surges.
- Gaps in the bulkheads (physical gaps, differences in the level of protection, and sections of deteriorated condition) along the Shrewsbury River result in an inconsistent line of protection and subsequent flooding. The bulkhead along the Shrewsbury River is privately owned and varies in height. The subject properties regularly become inundated with water due to flooding, which creates public health hazards, causes loss of use and income, property damage, emergency response and unnecessary burden.
- The affects of high winds and flooding have taken their toll on the above-ground power utilities, and outages during severe storms are fairly common. Power outages affect residents, businesses, and the ability of the Borough to provide critical services and perform emergency functions. Above ground transmission systems undergo repeated cycles of damage, repair and reconstruction. Due to the constant exposure to storms, Sea Bright has had extensive damage to the utility service by falling poles and the loss of power from downed transmission lines. Underground utility service can be more reliable than overhead service. The transmission poles throughout the Borough are part of a larger grid system serving much of coastal Monmouth County and Sandy Hook. By increasing resiliency, there will be fewer outages.

## SEA BRIGHT, CONTINUED

- The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities.
- Adhering to the minimum required standards of the existing building code provides a base degree of protection from wind damage. However, many buildings in Sea Bright were constructed before today's codes and standards were put in place and, therefore, they lack this level of protection. Furthermore, there are ways to exceed minimum requirements for improved performance during severe storms.
- Sea Bright is located on the barrier; its beach is eroding. Hurricane Sandy destroyed the dune system in Sea Bright. The Borough has been rebuilding the berms to add protection for the beach, local residences and businesses.
- Sea Bright's population is projected to experience minimal growth through 2040. By the year 2040, it is projected to have a population increase of 7.4% over 2010 values. This is much lower than the average rate of the Coastal Region as a whole (29%) and somewhat lower than County's overall projected increase of 10.6% for that same time period. Sea Bright is near fully developed. Waterfront development and infill development is common; as are residential structure elevations (particularly in the wake of Hurricane Sandy) to the BFE+2.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.

**Summary of PRI Results for Sea Girt, Borough of**  
Category/Degree of Risk

Hazard	Category/Degree of Risk										Hazard Ranking	
	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE		PRI Score
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	1.7	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion, and wave action.

**Key Risk Findings:**

- Sea Girt is a 1.1 square mile almost fully built-out coastal community. Virtually all of Sea Girt is within mapped surge haard areas. During Hurricane Sandy the most extensive flooding was in the area north of Stockton Lake, in the area generally between Crescent Park and the National Guard Training Center. Wreck Pond did overflow its banks, but floodwaters remained generally in the first block from the lake. Flooding of the JCP&L Stockton Substation and associated power outages was a major stumbling block for the Borough.
- Flooding is an issue in some areas because of a stormwater management system that cannot accommodate today's periods of high rainfall/runoff during severe storms; tidal backflow is also an issue.
- The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities.
- Protection and management of low lying areas and houses susceptible to flooding and damage from tidal waters is imperative to the Borough's sustainability and disaster resistance.
- The affects of high winds and flooding have taken their toll on power utilities, and outages during severe storms are not uncommon. Power outages affect residents, businesses, and the Borough's CIS, EOC, and local shelters - hampering the ability of the Borough to provide critical services and perform emergency functions particularly when telecommunications systems are impacted.
- Ordinances regarding allowable height of homes sometimes preclude the ability of a homeowner in the floodplain to elevate their structure.
- Not all stormwater retention projects identified by the Wreck Pond Regional Stormwater Management Committee in the Subregion 12 watershed have been implemented.
- Accumulation of sediment and debris at Wreck Pond and Black Creek impede flood flows.
- While the Borough knows which emergency facilities are located in which hazard areas, it does not know the design level of protection for each; identifying gaps and mitigating will protect critical facilities and allow the Borough to provide critical functions.
- The beach and dune system provide shore protection and flood control and should be maintained/renourished.
- JCP&L's Stockton Substation is located on the shore of Stockton Lake, in the floodplain.
- Sea Girt is part of the USACE Sea Bright to Manasquan, New Jersey, Beach Erosion Control Project. The project covers the 2.1 miles of coastline from Sea Bright south to Manasquan (except for three miles of shoreline from Lake Takanasee in Long Branch south through Deal, Allenhurst, and Loch Arbour to the Deal Lake outfall). It involves a 100 foot wide beach berm at elevation +7.3 ft NAVD, with a width from the project baseline of 100ft. A two foot berm cap, 80ft wide from the baseline, was designed at elevation +8.3ft NAAVD to prevent frequent overtopping of the berm from wave runoff.
- Sea Girt's coastline is subject to erosion and the ongoing renourishment of the USACOE project is of the utmost importance.

## SEA GIRT , CONTINUED

- Sea Girt's population is projected to remain essentially the same through 2040. By the year 2040, it is projected to have a population increase of just 0.4% over 2010 values. This is substantially lower than the average rate of the Coastal Region as a whole (29% and also much lower than County's overall projected increase of 10.6% for that same time period. Some residential infill development is ongoing and expected to continue.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.
- The Borough sustained almost 14 days with out power and getting messages to the Borough residents and persons of interest was crucial to the life and safety well being of our residents. We believe we have some of the necessary infrastructure such as antenna mounting and generator power to house such means of communication. We are currently working with the Borough Engineering staff on proper placement and locations of such. The Borough has and had no means of contacting residents as well as persons driving through the town during this Hurricane of any impending danger or hazardous situation.
- The Borough notes 189 homes in flood zones that are below the BFE.
- The emergency roadway north of the Pavilion is a low spot where flooding from large storms has occurred. Also the height of the pavilion and the ability of water to flow under that in large storms creates flooding and damage in the north end of town. This is all due to tidal surge. The beachfront pavilion also becomes damaged as well as the neighboring storage units for operation along the beachfront from surge.
- The Baltimore Blvd outflow pipe gets clogged with sand and debris due to its location and therefore backs up catch basin drainage for the middle easterly portion of town
- There are critical infrastructure buildings within the Borough that are not able to be used during a disaster or a loss of power. The Borough of Sea Girt would like to add a generator to its Department of Public Works buildings. These building are critical to the operation of our DPW. It houses the mechanic shop, fueling station for the natural gas vehicles, six garage bays for vehicles that are housed and charged inside the building. We had numerous needs over the course of the two week period we had no power within the Borough during Hurricane Sandy. Vehicles that needed mechanic work and or needed to enter and exit the garages with equipment were unable to do so or have work done to them. The loss of equipment use and or ability to operate out of the DPW yard was critical to the life and safety during the storm. Every vehicle was put into service and the DPW yard without power was a significant loss to our efforts to protect the citizens within the Borough. 2. The Borough of Sea Girt has an Emergency Operations Center within the Borough that houses the Emergency Management Department and its offices. During Hurricane Sandy – power was lost to this building and thus the effectiveness of the use of this building was compromised. The Borough wishes to install and have generator power added to this building. This building while in the beachfront area is almost two feet above the required flood elevation of 15 feet. The generator would be housed on the roof almost 15 feet above the base elevation of the building. This building is the base for a majority of Emergency Management Operations year round and especially during the highest times of population with in the Borough from April to October. This building also houses two repeaters and base station communication for the Emergency Management of town wide operations. Emergency Equipment, radios, lighting, vehicles and equipment specific to rescue during flooding is housed in this building. The addition of generator power to this building will improve the effectiveness of the Emergency Management Department within the Borough. The Borough would also house one of our requested emergency alert sirens that the Borough is looking to install. We believe this building is critical to the effect protection of life and safety during hazardous conditions that may exist within the Borough. of Sea Girt has an Emergency Operations Center within the Borough that houses the Emergency Management Department and its offices. During Hurricane Sandy – power was lost to this building and thus the effectiveness of the use of this building was compromised. The Borough wishes to install and have generator power added to this building. This building while in the beachfront area is almost two feet above the required flood elevation of 15 feet. The generator would be housed on the roof almost 15 feet above the base elevation of the building. This building is the base for a majority of Emergency Management Operations year round and especially during the highest times of population with in the Borough from April to October. This building also houses two repeaters and base station communication for the Emergency Management of town wide operations. Emergency Equipment, radios, lighting, vehicles and equipment specific to rescue during flooding is housed in this building. The addition of generator power to this building will improve the protection of the residents of the Borough and will improve the effectiveness of the Emergency Management Department within the Borough. This building would also house one of our requested emergency alert sirens that the Borough is looking to install. We believe this building is critical to the effect protection of life and safety during hazardous conditions that may exist within the Borough.

**Summary of PRI Results for Shrewsbury, Borough of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Moderate	3	Less than 6 hours	4	Less than one week	3	1.9	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge.

**Key Risk Findings:**

- Some flooding occurs in the Borough during severe storms and periods of high rainfall/runoff due to stormwater infrastructure insufficiencies; specific areas of concern include Haddon Avenue, Monroe Avenue, Trafalgar Place, and Newman Springs Road. It is noted that the Borough does not have jurisdiction over Newman Springs Road (it is a County road).
- Backflow prevention is lacking, and tidal waters can flow back into the storm sewer system.
- Debris and sediment accumulation in receiving waterways and creeks impedes flood flows.
- The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation (Much of the Borough's southeastern portion lies within mapped storm surge hazard areas (Parkers Creek Branch, a tributary to the Shrewsbury River). During Hurricane Sandy, surge was generally in areas nearest to Parkers Creek Branch (much smaller area than what is potentially susceptible). New developments observed flood conditions along Campbell Court, Blades Run, and Sunnybank Drive.
- Shrewsbury Borough's population is projected to experience moderate growth through 2040. By the year 2040, it is projected to have a population increase of 11.8% over 2010 values. This is much lower than the average rate of the Coastal Region as a whole (29%) but mirrors the County's overall projected increase of 10.6% for that same time period. Some residential infill and commercial redevelopment is expected, with commercial being along Route 35.

- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.
- Police department, dispatch center, evacuation shelter and OEM EOC are on limited back up power in the event of power outage
- The First Aid Squad from is located in an area that is prone to flooding. Although the building itself does not flood the access road floods frequently reducing accessibility to the building. The town is considering moving the squad to a more desirable location.

**Summary of PRI Results for Shrewsbury, Township of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Unlikely	1	Critical	3	Negligible	1	6 to 12 hours	3	Less than one week	3	2.0	L
Storm Surge	0	#N/A	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Wave Action	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Moderate	3	Less than 6 hours	4	Less than one week	3	1.9	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind.

**Key Risk Findings:**

- Critical facilities, including the Township EOC and local shelters, experience telecommunications and electrical system failure during severe storms (due to wind related power failures, such as downed trees on power lines). This renders the systems inoperable and the Township is unable to provide critical services.
- Some flooding occurs in the Township during severe storms and periods of high rainfall/runoff due to drainage system insufficiencies; stormwater management is seen locally as a key aspect of mitigating typical effects of hurricanes, tropical storms, nor'easters
- Shrewsbury Township's population is projected to remain virtually static through 2040. By the year 2040, it is projected to have a population increase of just 4.5% over 2010 values. This is much lower than the average rate of the Central Region as a whole (31.1%) and also lower than the County's overall projected increase of 10.6% for that same time period. The Township is built-out and does not have capacity for growth.
- Climate change will contribute to more frequent and severe weather events.

**Summary of PRI Results for Spring Lake, Borough of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.0	H
Storm Surge	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	1.7	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion, and wave action.

**Key Risk Findings:**

- Inefficient flow of water into and out of Wreck Pond and Lake Como causes flooding in Spring Lake and our bordering municipalities; a multi-jurisdictional solution is required (involving not only affected municipalities, but those in the upper watershed contributing runoff to the Borough's receiving waterbodies).
- Accumulation of sediment and debris at Wreck Pond and Black Creek impedes the efficient flow and storage of stormwater, and contributes to flooding.
- Spring Lake is part of the USACE Sea Bright to Manasquan, New Jersey, Beach Erosion Control Project. The project covers the 21 miles of coastline from Sea Bright south to Manasquan (except for three miles of shoreline from Lake Takanasee in Long Branch south through Deal, Allenhurst, and Loch Arbour to the Deal Lake outfall). It involves a 100 foot wide beach berm at elevation +7.3 ft NAVD, with a width from the project baseline of 100ft. A two foot berm cap, 80ft wide from the baseline, was designed at elevation +9.3ft NAVD to prevent frequent overtopping of the berm from wave runoff.
- Spring Lake's coastline is subject to erosion and the ongoing renourishment of the USACE project is of the utmost importance.
- Spring Lake's population is projected to remain essentially the same through 2040. By the year 2040, it is projected to have a population increase of just 0.3% over 2010 values. This is much lower than the average rate of the Coastal Region as a whole (29%) and also much lower than the County's overall projected increase of 10.6% for that same time period. Most new development in this one square mile community involves demo-rebuilds or renovations
- Virtually all of Spring Lake is within mapped storm surge hazard areas. During Hurricane Sandy, however, most flooding was observed in areas nearest to Wreck Pond and Lake Como.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.

**Summary of PRI Results for Spring Lake Heights, Borough of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Small	2	6 to 12 hours	3	Less than one week	3	2.8	M
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	1.7	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge.

**Key Risk Findings:**

- High winds downing trees on powerlines during severe storms interrupts power on an increasingly more frequent basis in the Borough.
- Existing development in floodprone areas and areas susceptible to storm surge has incurred first floor flooding, and damages to utility systems.
- The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation
- While not on the immediate coast, much of Spring Lake Heights is in mapped surge hazard areas. However, during Hurricane Sandy, most flooding was observed within the first block of the Wreck Pond tributaries.
- Spring Lake Heights' population is projected to remain virtually static through 2040. By the year 2040, it is projected to have a population increase of just 1.7% over 2010 values. This is much lower than the average rate of the Coastal Region as a whole (29%) and also lower than the County's overall projected increase of 10.6% for that same time period.
- Spring Lake Heights is essentially built out; the majority of development is residential in nature and occurs as part of home additions and improvements.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.

**Summary of PRI Results for Tinton Falls, Borough of**  
Category/Degree of Risk

Hazard	Category/Degree of Risk										Hazard Ranking	
	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE		PRI Score
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Dam Failure	Unlikely	1	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Small	2	6 to 12 hours	3	Less than one week	3	2.8	M
Storm Surge	Likely	3	Catastrophic	4	Small	2	More than 24 hours	1	Less than one week	3	2.9	M
Wave Action	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
<b>Other Natural Hazards</b>												
Wildfire	Possible	2	Critical	3	Moderate	3	Less than 6 hours	4	Less than one week	3	2.8	M

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, and surge.

**Key Risk Findings:**

- Development within the Pine Brook Watershed is exacerbating existing stormwater issues.
- Flows along the Pine Brook repeatedly undercut portions of Water Street, causing slumping of the street into Pine Brook. Similarly, along Jumping Brook.
- Downed trees and powerlines are historically an issue during extreme wind events including severe storms such as hurricanes and tropical storm, nor'easters, and winter storms.
- Areas of heavy sedimentation are noted along some watercourses (Whale Pond Brook; Jumping Brook)
- Flood-prone roadways/intersections under State jurisdiction, including: County Highway 13A, County Highway 16, and Hope Road.
- Flash flooding conditions in area streams during/after storms
- Power outages during storms create dangerous conditions at key intersections (Hope Rd & Sycamore Ave, Sycamore Ave & Shrewsbury Ave, Asbury Ave & Essex Rd, Asbury Ave & Shafto Rd)
- Sanitary sewer pump stations lose power during severe storms
- The NJFFS has mapped several areas of very high to extreme wildfire risk; some of these are close to key access roads and developed areas.
- Eight critical facilities are in mapped wildfire risk areas (4 child care facilities and 3 senior care facilities in low or moderate risk areas, and the Tinton Falls Senior Residence in an area of mapped high/extreme risk).
- A Public Works facility is located in an area susceptible to flooding.

Tinton Falls has a fairly steady flow of new development and its population is increasing, so promoting disaster resistant development will be key to achieving sustainability.

Tinton Falls' population is projected to grow fairly significantly through 2040. By the year 2040, it is projected to have a population increase of 35.4% over 2010 values. This is somewhat higher than the average rate of the Central Region as a whole (31.1%) and also much higher than the County's overall projected increase of 10.6% for that same time period. Housing developments, subdivisions, affordable housing, and adult communities are high-density. Fort Monmouth redevelopment will consist of various phases of high-tech research and development offices.

- Storm surge hazard areas in Tinton Falls are generally within undeveloped areas of the Swimming River floodplain. During Hurricane Sandy, floodwaters generally were constrained to these areas.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.

**Summary of PRI Results for Union Beach, Borough of**  
Category/Degree of Risk

Hazard	Category/Degree of Risk										PRI Score	Hazard Ranking
	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE		
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Large	4	6 to 12 hours	3	Less than one week	3	3.2	H
Storm Surge	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Wave Action	Likely	3	Catastrophic	4	Small	2	More than 24 hours	1	Less than one week	3	2.9	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Moderate	3	Less than 6 hours	4	Less than one week	3	1.9	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion, and wave action.

**Key Risk Findings:**

- A section of Florence Avenue is not at a sufficient elevation, and is subject to flooding. This road is important for maintaining egress and ingress in the municipality.
- The intersection of Spruce Street and Center Street is not at a sufficient elevation, and is subject to flooding. These two roadways are located in a residential community and provide access to the park and residential structures.
- The Harris Garden Fire Company Building is located in a flood-prone area and the Borough is unable to provide firefighting services during flooding events.
- The existing shore protection features (bulkhead, beach area) are the borough's first line of defense against wave action, storm surge, and flooding during storm events. Gaps in the line of protection, variations in the design level, or unmitigated circumstance: that compromise the function of the overall system increase the vulnerability of people and property in the protected area.
- The existing storm drainage system causes flooding when water cannot efficiently pass into storm drains and system inlets.
- Debris and sediment accumulation in receiving waterways and creeks impedes flood flows.
- Many roads in the Borough of Union Beach are flood-prone. Ingress/egress becomes an issue. In addition, drivers who are unfamiliar with the area or who are caught unaware of flood conditions risk damaging personal property and life safety.
- The Army Corps of Engineers Shore Protection and Flood Control Project for Union Beach should be implemented and maintained to provide shore protection and flood control in the Borough.
- Union Beach's population is projected to remain virtually static through 2040. By the year 2040, it is projected to have a population increase of just 2.6% over 2010 values. This is lower than the average rate of the Bayshore Region as a whole (6.7%) and also lower than the County's overall projected increase of 10.6% for that same time period. Union Beach is near fully built out. Most new development is rehabilitation or infill, except along the shoreline, where the area north of Brook Avenue extending west to the intersection of Front Street and Union Avenue has been rezoned for medium density townhouses.
- The entirety of Union Beach is within mapped surge hazard areas, and nearly all of the Borough was inundated during Hurricane Sandy. The Borough incurred millions of dollars in losses, and roughly 250 homes were destroyed. The Borough's only school (Memorial School), which was being used as a shelter, had to be evacuated when it began taking on water. Ultimately, there was a foot and a half of water in the school was also flooded; temporary classrooms were needed for more than 700 students.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.

**Summary of PRI Results for Upper Freehold, Township of**  
Category/Degree of Risk

Hazard	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE	PRI Score	Hazard Ranking
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Catastrophic	4	Large	4	More than 24 hours	1	Less than one week	3	3.3	H
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Dam Failure	Unlikely	1	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Highly Likely	4	Critical	3	Moderate	3	6 to 12 hours	3	Less than one week	3	3.3	H
Storm Surge	0	#N/A	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Wave Action	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Possible	2	Minor	1	Moderate	3	Less than 6 hours	4	Less than one week	3	2.2	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind.

**Key Risk Findings:**

- Flooding has significant impacts in Upper Freehold, with repetitive loss areas in need of mitigation.
- High winds during severe storms causes trees and limbs to fall, damaging property, interrupting electrical service, and blocking roadways.
- Accumulation of sediment, debris and fallen trees impedes flood flows. Examples are at Bridges U-15 Breza Road and U-52 Ellisdale Road.
- Scour has become an issue during periods of significant rainfall and runoff at: Bridge U-34 Sharon Station Road, Bridge U-53 Provinceline Road, and Bridges U-47 & U-48 Wainsmill Road.
- Upper Freehold's population is projected to experience minimal growth through 2040. By the year 2040, it is projected to have a population increase of 5.6% over 2010 values. This is higher than the average rate of the Panhandle Region as a whole (1.6%) but lower than the County's overall projected increase of 10.6% for that same time period. The Township's number one goal is farmland and open space preservation, though some residential subdivisions are planned. Limited commercial development occurs on a single structure type basis (i.e., small plazas with allowable retail uses such as convenience stores, offices, hair salons, nursery schools, etc). Stormwater and floodplain management ordinances are enforced.
- Climate change will contribute to more frequent and severe weather events.
- The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities.

Summary of PRI Results for Wall, Township of

Hazard	Category/Degree of Risk										PRI Score	Hazard Ranking
	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE		
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	2.9	M
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
Dam Failure	Unlikely	1	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Small	2	6 to 12 hours	3	Less than one week	3	2.8	M
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	Likely	3	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	2.7	M
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Likely	3	Critical	3	Moderate	3	Less than 6 hours	4	Less than one week	3	3.1	H

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge, coastal erosion.

**Key Risk Findings:**

- All previous projects either completed, or omitted from the next mitigation strategy.
- JCP&L's Glendola Substation was flooded during Hurricane Sandy, knocking out power to a large portion of the Township.
- Wall's population is projected to experience moderate growth through 2040. By the year 2040, it is projected to have a population increase of 17.5% over 2010 values. This is lower than the average rate of the Central Region as a whole (31.1%) but higher than the County's overall projected increase of 10.6% for that same time period. Development in single family subdivisions is typical, along with single demo rebuilds, and commercial development is steady with rehabilitation of existing office and retail spaces. No new high-density residential developments are planned. The majority of flood hazard areas are already zoned for open space, or single family residential development and no major waterfront developments are ongoing or proposed in flood hazard areas.
- Moderate areas of Wall Township lie within mapped storm surge hazard areas. During Hurricane Sandy, flooding was observed generally in the floodplains of the Shark River, Manasquan River, and Wreck Pond Brook.
- Wall has several areas of high or extreme wildfire risk, some of which could potentially threaten development.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.

Summary of PRI Results for West Long Branch

Hazard	Category/Degree of Risk										Hazard Ranking	
	Probability	PROBABILITY INDEX VALUE	Impact	IMPACT INDEX VALUE	Spatial Extent	SPATIAL INDEX VALUE	Warning Time	WARNING INDEX VALUE	Duration	DURATION INDEX VALUE		PRI Score
<b>Atmospheric Hazards</b>												
Extreme Temperatures	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Extreme Wind	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than 24 hours	2	2.9	M
Hurricane & Tropical Storm	Likely	3	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
Lightning	Highly Likely	4	Minor	1	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.2	L
Nor'easter	Highly Likely	4	Limited	2	Large	4	More than 24 hours	1	Less than one week	3	3.0	H
Tornado	Likely	3	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	2.8	M
Winter Storm	Highly Likely	4	Minor	1	Large	4	More than 24 hours	1	Less than one week	3	2.7	M
<b>Hydrologic Hazards</b>												
Coastal Erosion	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
Dam Failure	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
Drought	Possible	2	Minor	1	Large	4	More than 24 hours	1	More than one week	4	2.2	L
Flood	Likely	3	Critical	3	Small	2	6 to 12 hours	3	Less than one week	3	2.8	M
Storm Surge	Likely	3	Catastrophic	4	Moderate	3	More than 24 hours	1	Less than one week	3	3.1	H
Wave Action	0	#N/A	Catastrophic	4	Negligible	1	More than 24 hours	1	Less than one week	3	#N/A	#N/A
<b>Geologic Hazards</b>												
Earthquake	Unlikely	1	Minor	1	Large	4	Less than 6 hours	4	Less than 6 hours	1	1.9	L
Landslide	0	#N/A	Catastrophic	4	Negligible	1	Less than 6 hours	4	Less than 6 hours	1	#N/A	#N/A
<b>Other Natural Hazards</b>												
Wildfire	Unlikely	1	Minor	1	Small	2	Less than 6 hours	4	Less than one week	3	1.7	L

**Mitigation Strategy: Mitigate Highest Hazards**

Nor'easters, Hurricanes & Tropical Storms will be mitigated through addressing component hazards of flooding, wind, surge.

**Key Risk Findings:**

- Certain areas of flooding in West Long Branch Borough have been identified by the Borough as a result of drainage issues on a multi-jurisdictional level (West Long Branch, Long Branch, Monmouth County, and Monmouth University).
- Sedimentation and debris accumulation along Turtle Mill Brook impede stormwater and result in flooding.
- West Long Branch's population is projected to experience minimal growth through 2040. By the year 2040, it is projected to have a population increase of 6.4% over 2010 values. This is much lower than the average rate of the Coastal Region as a whole (29%) but higher than the County's overall projected increase of 10.6% for that same time period.
- West Long Branch is not on the immediate coast but is subject to storm surge flooding via Turtle Mill Brook, a tributary to the Shrewsbury River. While a large portion of the northern area of the Borough lies within mapped storm surge hazard areas, flooding during Hurricane Sandy remained largely constrained to the areas immediately adjacent to the Turtle Mill Brook. Some development was impacted. Joine Avenue was flooded in the vicinity of Victor and Oceanport Avenues.
- West Long Branch is essentially built-out, though some minor subdivisions are planned for the last remaining open space parcels.
- Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
- Climate change will contribute to more frequent and severe weather events.

**APPENDIX 4.1 – LEGAL AND REGULATORY TOOL DESCRIPTIONS**

## APPENDIX 4.1 – LEGAL AND REGULATORY TOOL DESCRIPTIONS

Descriptions of Various Legal and Regulatory Capabilities Considered	
Capability	Description
Building Code	Building codes regulate construction standards and are developed for specific geographic areas of the country. They consider the type, frequency, and intensity of hazards present in the region. Structures built to applicable building codes are inherently resistant to many hazards such as strong winds, floods, and earthquakes, up to a certain level of severity. Due to the location specific nature of the building codes, these are very valuable tools for mitigation. In the State of New Jersey, the current building code in place is the International Building Code 2009 – New Jersey Edition. This code is applicable state-wide and local municipalities may not adopt more stringent or additional provisions at their discretion.
Zoning Ordinance	Zoning is a useful tool to consider when developing a mitigation strategy. It can be used to restrict new development, require low-density development, and designate specific uses (i.e., recreational) in the hazard prone areas. Private property rights must be considered, but enacting a zoning ordinance can reduce or potentially eliminate damages from future hazard events.
Subdivision Ordinance	Subdivision ordinances offer an opportunity to account for natural hazards prior to the development of land as they formulate regulations when the land is subdivided. Subdivision design that incorporates mitigation principles can reduce the exposure of future development to hazard events.
Special Purpose Ordinance	A special purpose ordinance is a form of zoning in which specific standards dependent upon the special purpose or use must be met. For example, many special purpose ordinances include basic development requirements such as setbacks and elevations. The special purpose ordinance is a useful mitigation technique particularly when implemented to reduce damages associated with flooding and coastal erosion. Special purpose ordinances identified by jurisdictions include stormwater management, erosion, floodplain, steep slope, setback ordinances and standards for roads, bridges and drainage structures.
Growth Management Ordinance	Growth management ordinances are enacted as a means to control the location, amount, and type of development in accordance with the larger planning goals of the jurisdiction. These ordinances often designate the areas in which certain types of development is limited and encourage the protection of open space for reason such as environmental protection and limitation of sprawl. The State Policies for Comprehensive Planning given in the New Jersey State Development and Redevelopment Plan encourages coordination of growth management plans and policies with hazard mitigation and emergency response planning.
Site Plan Review Requirements	Site plan review requirements are used to evaluate proposed development prior to construction. An illustration of the proposed work, including its location, exact dimensions, existing and proposed buildings, and many other elements are often included in the site plan review requirements. The site plan reviews offer an opportunity to incorporate mitigation principles, such as ensuring that the proposed development is not in an identified hazard area and that appropriate setbacks are included.
Comprehensive Plan <i>(sometimes called a “Master Plan”)</i>	A comprehensive plan is a document which illustrates the overall vision and goals of a community. It serves as a guide for the community’s future and often includes anticipated demographics, land use, transportation, and actions to achieve desired goals. Integrating mitigation concepts and policies into a comprehensive plan provides a means for implementing initiatives through legal frameworks and enhances the opportunity to reduce the risk posed by hazard events.
Capital Improvement Plan	Capital Improvement Plans schedule the capital spending and investments necessary for public improvements such as schools, roads, libraries, and fire services. These plans can serve as an important mechanism to manage development in identified hazard areas through limited public spending and can be used as a to develop a match for mitigation projects.
Economic Development Plan	Economic development plans offer a comprehensive overview of the local or regional economic state, establish policies to guide economic growth, and include strategies, projects, and initiatives to improve the economy in the future. Furthermore, economic development plans, similar to capital improvement plans, offer an opportunity to reduce development in hazard prone areas by encouraging economic growth in areas less susceptible to hazard events.
Emergency Response Plan	Emergency response plans provide an opportunity for local governments to anticipate an emergency and plan the response accordingly. In the event of an emergency, a previously established emergency response plan can reduce negative effects as the responsibilities and means by which resources are deployed has been previously determined.

## APPENDIX 4.1 – LEGAL AND REGULATORY TOOL DESCRIPTIONS

Post-Disaster Recovery Plan	A post-disaster recovery plan guides the physical, social, environmental, and economic recovery and reconstruction procedures after a disaster. Hazard mitigation principles are often incorporated into post-disaster recovery plans in order to reduce repetitive disaster losses.
Post-Disaster Recovery Ordinance	Post-disaster recovery ordinances are often produced in conjunction with post-disaster recovery plans. The ordinances are enacted after a hazard event to guide redevelopment in order to reduce future damages and mitigate repetitive loss.
Real Estate Disclosure Ordinance	A real estate disclosure ordinance requires individuals selling real estate to inform potential buyers of the hazards to which the property and/or structure is vulnerable prior to the sale. Such a requirement ensures that the new property owner is aware of the hazards to which the property is at risk of damage.

**APPENDIX 4.2 – STATE RESOURCES**

*State Resources*

Emergency management in the State of New Jersey is under the direct control of the **Governor**, who is conferred specific emergency powers under the New Jersey Constitution and statutes. The Superintendent of the State Police, a Division within the New Jersey Department of Law and Public Safety, is the **State Director of Emergency Management**.

The **Emergency Management Section** facilitates the flow of information to and from the various Bureaus supervised and serves as a conduit for communication with other Divisions. The Section is also responsible for planning, directing and coordinating emergency operations within the State which are beyond local control.

The **Recovery Bureau** supervises the Public Assistance, Mitigation and Finance Units.

- The Preparedness Unit disseminates preparedness information in advance of a disaster or potential disaster.
- The Mitigation Unit has the mission of enhancing State, county, and municipal risk reduction through the development and implementation of mitigation strategies. The Unit undertakes hazard mitigation planning and the review of mitigation projects in advance of potential disasters, and is also activated during and immediately after disasters to evaluate existing and proposed mitigation measures in the affected areas. They make applicants aware of FEMA mitigation grant programs, and conduct training sessions and workshops and participate in public meetings to facilitate grant processes.
- The Finance Unit supports the fiscal functions of both the Public Assistance and Mitigation Units. It ensures timely reimbursements and fiduciary responsibility.

The State has an **Emergency Operations Center** which is activated and staffed whenever a disaster occurs, or is predicted to occur. The State’s Emergency Operations Plan addresses the State’s response to any disaster or emergency and provides the basis for coordinated emergency operations involving disaster planning, response, recovery and mitigation.

The NJOEM office has evolved from a small agency with limited planning, training, and response capabilities to its present status as an integral part of State government. The State Hazard Mitigation Officer is the representative of State government acting as the primary point of contact with FEMA, other federal agencies, and county and local units of government in the planning and implementation of pre- and post-disaster mitigation programs and activities required under the Stafford Act. The New Jersey State Hazard Mitigation Officer is Acting Sergeant First Class Michael Gallagher of NJOEM.

NJOEM has prioritized support for the Mitigation Unit. A Mitigation Unit manager, Civil Engineer and Regional Manager were hired to manage the increased workload and responsibilities of the NJOEM Mitigation Unit. Additional planning assets are also scheduled to be hired in the very near future. The projected additions to the Mitigation Unit will bring a total workforce to 15 staff members. The Mitigation Unit also has seven to nine Contract staff members on staff to assist with DR4086 including specialists in EHP, BCA, and Planning.

New Jersey has several funding sources for conducting hazard mitigation projects. For example, grants for flood mitigation projects may be obtained through the New Jersey Office of Emergency Management for planning and projects.

Capital needs of the state are primarily funded through three methods, which may be used singularly or in combination. They are:

- Pay-as-you-go capital outlays used primarily for renovations and preservation of state properties, highway, and mass transit improvements and environmental projects.
- General obligation bond funds, used to finance more expensive capital construction projects such as new facilities and must yield substantial benefits for the present and future generations (these funds must be authorized by the state’s voters)
- Lease or lease-purchase is an alternate method of financing capital construction by allowing the state to occupy a facility and, over a defined period of time, secure ownership.

**Table 4.2-1** (as provided in the 2014 New Jersey State Hazard Mitigation Plan) summarizes New Jersey’s pre- and post-disaster hazard management policies, programs, and capabilities. **Table 4.2-2** (also as provided in the 2014 New Jersey State Hazard Mitigation Plan) summarizes Funding Sources Available for Mitigation Activities

Table 4.2-1  
Summary of Pre- and Post-Disaster Hazard Management Policies, Programs, and Capabilities

Agency	Hazard	Program	Capability		Effect on Loss Reduction			Provides Funding for Mitigation	Description of Policies, Programs, Funding
			Pre-Disaster	Post-Disaster	Support	Facilitate			
New Jersey Department of Community Affairs	All		√	√	√	√	√	DCA provides administrative guidance, financial support, and technical assistance to local governments, community development organizations, businesses, and individuals to improve the quality of life. DCA offers a wide range of programs and services that respond to issues of public concern including fire and building safety, housing production, community planning and development, and local government management and finance. DCA's programs and services are provided through, among others, the following Divisions: • Division of Codes and Standards • Division of Community Resources • Division of Fire Safety • Division of Local Government Services • Office for Planning Advocacy	
New Jersey Department of Education (DOE)	All		√	√	√	√	√	New Jersey DOE has oversight and review authority over all public schools in New Jersey. The DOE does not own any property or facilities. All public schools are owned by their respective school districts.	
New Jersey Department of Environmental Protection (NJDEP)	All		√	√	√	√	√	NJDEP coordinates with FEMA, USEPA, NJOEM, NJDSS, and the New Jersey Department of Military and Veterans Affairs, and the NJSP to participate in state, county, and local planning initiatives. NJDEP participates, as a member, in the Regional Catastrophic Planning Team.	
Department of Environmental Protection (NJDEP)	All	Water Pollution Management Element (WPME)	√	√	√	√	√	WPME is responsible for protecting New Jersey's ground and surface waters from pollution caused by improperly treated wastewater and its residuals primarily through the implementation of the New Jersey Pollutant Discharge Elimination System (NJPDES) permit program. For funding, see New Jersey Environmental Infrastructure Financing Program.	
New Jersey Department of Environmental Protection	All	Division of Water Supply and Geoscience (DW&GS)	√	√	√	√	√	DW&GS works to ensure that adequate, reliable, and safe water supply is available for the future. This goal is accomplished through the regulation of ground and surface water diversions, permitting of wells, permitting of drinking water infrastructure, monitoring of drinking water quality, and technical support for water systems to achieve compliance with all federal and State standards. In addition, Water Supply staff act in a support role during an emergency situation to provide technical assistance, as needed to re-establish	



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New Jersey Department of Environmental Protection	All									<p>safe and adequate public water supplies. Additionally, DW&amp;GS provides operator licensing and training support as well as financial assistance through the DW State Revolving Fund program. For further funding information, see New Jersey Environmental Infrastructure Financing Program.</p> <p>NJEIFP is a revolving loan program for the construction of drinking water facilities, wastewater treatment facilities, sludge management systems, combined sewer overflow abatement, stormwater, and other non-point source management projects. The program also offers funding to publicly and privately-owned drinking water systems for the construction or upgrade of drinking water facilities, transmission and distribution systems, storage facilities, and source development. NJEIFP also offers a disaster relief fund that will be able to provide short-term or bridge loans to entities that are in need of an upfront cash flow.</p>
New Jersey Department of Environmental Protection	Flood, Severe Storm, Nor'easter, Hurricane/Tropical Storm									<p>Flood, Severe Storm, Nor'easter, Hurricane/Tropical Storm</p>
New Jersey Department of Environmental Protection	Flood, Severe Storm, Nor'easter, Hurricane/Tropical Storm									<p>The Task Force reviewed and provided comments on the new Flood Control Act regulations and supports pre- and post-hazard mitigation. The Task Force is as an advisory body for flooding issues.</p>
New Jersey Department of Environmental Protection	Flood, Severe Storm, Nor'easter, Hurricane/Tropical Storm									<p>The Bureau leads the State's efforts as the State NFIP Coordinator and Community Rating System (CRS) support. In addition, the Bureau's responsibilities include the funding of construction and operation of federal/State/local flood control mitigation projects throughout the State, including the 24-hour operation of the Pompton Lakes Dam Flood Gates. The Bureau has</p>

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New Jersey Department of Environmental Protection	Flood, Severe Storm, Nor'easter, Hurricane/Tropical Storm	Open Space and Land Acquisition Programs	✓	✓	✓	✓	✓	✓	also taken a role on the development and adoption of New Jersey Flood Hazard Area mapping, as well as an active partnership with FEMA on their FEMA Map Modernization Program efforts. The Bureau also provides Community Assistance Program/State Support Services Element funding to meet negotiated objectives for reducing flood hazards in NFIP communities. The program requires that participating communities identify, prevent, and resolve floodplain management issues before the issues require compliance action by FEMA.
New Jersey Department of Environmental Protection	Flood, Severe Storm, Nor'easter, Hurricane/Tropical Storm	Passaic River Basin Flood Advisory Commission	✓	✓	✓	✓	✓	✓	Green Acres/Blue Acres Program - Green Acres and Blue Acres Program acquisition funds are used for the acquisition of repetitive loss and severe repetitive loss structures. Created by Executive Order 23 on April 23, 2010, the Advisory Commission's charge is to provide recommendations to the Governor including (but not limited to): expanding and expediting Passaic River floodway property buyouts, prioritizing land acquisition and acquiring natural flood storage areas, operating the Pompton Lake Dam floodgates, clearing river of debris, evaluation of regulatory programs, enhancing public involvement, information and outreach for flood response, and identifying methods to phase out or prevent future development in flood-prone hazard areas.
New Jersey Department of Environmental Protection	Coastal Erosion, Hurricane/Tropical Storm, Severe Storm, Nor'easter	Bureau of Coastal Engineering	✓	✓	✓	✓	✓	✓	The Bureau maintains a close relationship with the U.S. Army Corps of Engineers regarding all phases of coast protection. The State has continued funding the non-lapsing Shore Protection Fund for shore protection projects associated with the protection, stabilization, restoration or maintenance of the shore including monitoring studies and land acquisition. Through continued State funding for federal flood control projects through annual State appropriations under the HR-6 Flood Control project budget the Bureau maintains an active series of coastal flood and shore protection projects. The Bureau proactive responsibilities include beach nourishment, construction of shore protection structures, coastal dredging and aids to navigation. The Bureau has reactive responsibilities resulting from coastal storms. Many of the coastal engineering projects involve coordination with the U.S. Army Corps of Engineers in both the Philadelphia and the New York Districts.
Department of Environmental Protection	Geologic Hazards, Earthquake, Drought	New Jersey Geological and Water	✓	✓	✓	✓	✓	✓	Evaluates geologic, hydrogeological, and water quality data to manage and protect water resources, identify natural hazards and contaminants, and provide mineral



**APPENDIX 4.2 – STATE RESOURCES**

										resources including offshore sands for beach nourishment. Information provided by the survey includes GIS data and maps of geology, topography, groundwater, and aquifer recharge. In addition the data track wellhead protection areas, aquifer thicknesses, properties and depths, groundwater quality, drought, geologic resources, and hazards (such as earthquakes, abandoned mines, karst-influenced sinkholes, and landslides).
New Jersey Department of Environmental Protection	Flood, Severe Storm, Nor'easter, Hurricane/Tropical Storm	Division of Land Use Regulation (DLUR)	✓	✓	✓	✓	✓	✓	✓	DLUR has developed rules and regulations to ensure a safer community by reducing flood losses and insurance claims in vulnerable coastal areas. The Division coordinates with the Bureau of Dam Safety and Flood Control and NFIP-participating communities on adopting and maintaining their Flood Damage Prevention Ordinance. The Division enforces compliance with State land use regulations through notices, administrative actions, and penalties.
New Jersey Department of Environmental Protection	Fishing Failure	Division of Fish and Wildlife Service	✓	✓	✓	✓	✓	✓	✓	NJDEP coordinates with the U.S. Department of Commerce, NOAA/National Marine Fisheries Service (NMFS) and the U.S. Department of the Interior, Fish and Wildlife Service in fishery mitigation programs. The Governor may apply to the NMFS for financial assistance to address fishery failures.
New Jersey Department of Environmental Protection	Wildfire	Division of Parks and Forests / Forest Fire Service	✓	✓	✓	✓	✓	✓	✓	The Fire Service Section provides a full-time and a part-time staff of wildland firefighters. Staff provides continuing mechanical thinning and prescribed fire used to reduce hazardous wildland fuel accumulations Statewide, particularly in high-risk areas. The Forest Fire Service encourages community acceptance and inclusion of Firewise concepts in municipal and regional planning; develops and implements effective silviculture strategies that improve the health of forests and reduce the amount of fuels available for wildland fires from dead and dying trees. The Fire Service also strives to educate the public through NJOEM and the New Jersey Forest Fire Service outreach programs and hazard mitigation workshops.
New Jersey Department of Transportation (NJDOT)	All	511 Traffic Monitoring	✓	✓	✓	✓	✓	✓	✓	The traffic monitoring system, 511NJ, is a free service for the public that supplies traffic information about the New Jersey Interstates, State Highways, New Jersey Turnpike, Garden State Parkway, Atlantic City Expressway, and all bridge and tunnel crossings to motorists. The system combines traffic data into up to date condition reports that are always available and accessible via text, voice, or internet service to commuters.
New Jersey Department of	All	Geographic Information	✓	✓	✓	✓	✓	✓	✓	The department uses GIS to create maps that are used in several areas including planning and highway

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Transportation		Systems (GIS)								construction. The maps that are created using this information aid other agencies, including law enforcement, in finding solutions to reduce traffic incidents. The GIS data can also be used to identify geographical changes after a natural disaster, so that any anomalies or problems can be addressed.
New Jersey Department of Transportation	All	Capital Program	✓	✓	✓	✓	✓	✓	✓	NJDOT uses GIS to create maps that are used in several areas including planning and highway construction. The maps that are created using this information aid other agencies, including law enforcement, in finding solutions to reduce traffic incidents. The GIS data can also be used to identify geographical changes after a natural disaster, so that any anomalies or problems can be addressed.
New Jersey Department of Transportation	All	Reverse Lane Strategies (or contraflow operations)	✓	✓	✓	✓	✓	✓	✓	NJDOT has three contraflow plans in place. The New Jersey Turnpike Authority and the South Jersey Transportation Authority also have one plan each (Garden State Parkway and Atlantic City Expressway). When activated, for a temporary period of time, NJDOT and its partners expand the lanes available for all travel in an outbound direction (away from the anticipated area of danger) and facilitate its usage for outbound vehicular travel.
New Jersey Department of Transportation	All	County Diversionary Route Plans	✓	✓	✓	✓	✓	✓	✓	Diversion plans are a compilation of predetermined diversion routes developed to improve coordination between State and local agencies when incidents occur. These Diversion Plans offer the Incident Commanders viable alternate routes to utilize during incidents.
New Jersey Department of Transportation	All	Local Aid and Economic Development	✓	✓	✓	✓	✓	✓	✓	NJDOT is committed to advancing transportation projects that enhance safety, renew aging infrastructure, and support new transportation opportunities at the county and municipal level. The Transportation Trust Fund and the Safe, Accountable, Flexible, Efficient Transportation Equity Act (SAFE-TEA) legislation provide the opportunity for funding assistance to local governments for road, bridge, and other transportation projects. NJDOT has established a number of local aid programs that provide financial support to counties and municipalities for capital improvements to transportation infrastructure.
New Jersey Department of Transportation	All	Office of Maritime Resources - Dredged Material Management	✓	✓	✓	✓	✓	✓	✓	NJDOT provides interagency support, program planning, and policy recommendations on maritime issues to the Governor. NJDOT serves as the primary advisory body for the support of New Jersey's \$50 billion maritime industry, which includes ports and terminals, cargo movement, boat manufacturing and sales, ferry operations, marine trades, recreational and commercial boating and maritime environmental



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										resources. Management of dredging activities in New Jersey is generally divided into three main geographic areas – New Jersey/New York Harbor, Delaware River/Delaware River Ports and the State’s Navigation Channels. This program also promotes coordination and cooperation among federal, state, regional, and non-governmental agencies.
New Jersey Department of Transportation	Hazardous Substance Release									NJDOT, through the Division of Multimodal Services, is responsible for the oversight and / or support of several modes of transportation including general aviation, maritime, light rail, and freight rail; making it a multi-modal focused organization.
New Jersey Department of Transportation	All									The long-range planning process identifies goals, policies, strategies, and actions to improve the movement of people and freight and support economic growth during these difficult times. There are three MPOs in New Jersey composed of locally elected officials and representatives from each geographic urban area. Each of them is a forum for continuing, coordinated transportation planning with its portion of federal funds in the TIP. NJDOT is a voting member of each of the three regional MPOs – the North Jersey Transportation Planning Authority, the South Jersey Transportation Planning Organization, and the Delaware Valley Regional Planning Commission.
New Jersey Department of Transportation	All									The Division of Right of Way and Access Management is not specifically tasked with hazard mitigation activities. However, the eminent domain/property acquisition process and the sale of surplus government property should be of interest to post-disaster impacted communities seeking redistribution of land assets for transportation infrastructure protection.
New Jersey Department of Transportation	Severe Winter Weather, Nor’easter									NJDOT works to make winter travel as safe as possible. NJDOT has 13,295 lane miles of interstate, U.S., and State routes under its jurisdiction that it strives to keep open and passable at all time during winter weather. The goal during a winter storm is to maintain the roads for safe travel, at safe speeds, by using anti-icing materials, and, when appropriate, removal of snow with plows.
New Jersey Department of the Treasury	All									The ERU is the State Treasurer’s representative and coordinating agency for all of the Department of Treasury’s roles and responsibilities in and to Emergency Management. The ERU acts as the lead for the Department of the Treasury and deployment coordinator for the Department in Planning, Mitigation, Response, and Recovery. The Division Coordinates and delegates mitigation and corrective action policies, programs and projects within the Division of

**APPENDIX 4.2 – STATE RESOURCES**

											Administration and to other Divisions of the Department.
New Jersey Department of State, Office for Planning Advocacy	Natural hazards		✓	✓	✓	✓	✓	✓	✓	✓	Supports and coordinates planning throughout New Jersey to protect the environment; mitigate development hazards; and guide future growth into compact, mixed-use development and redevelopment projects while fostering a robust long-term economy. The Office implements the goals of the State Development and Redevelopment Plan to achieve comprehensive, long-term planning; and integrates that planning with programmatic and regulatory land-use decisions at all levels of government and the private sector.
New Jersey Economic Development Authority	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	The NJEDA supports business growth in New Jersey and has been active in post-Superstorm Sandy recovery and rebuilding efforts. The NJEDA provides businesses with low-interest financing.
New Jersey Department of Law & Public Safety, Office of Emergency Management	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	Through ESF 14, Long-Term Recovery Planning, NJOEM will work with the Office of Homeland Security and Preparedness to have a plan for long-term planning and recovery prior to a disaster or emergency. One of the areas of planning includes mitigation. This coordination will allow for another Statewide plan to incorporate mitigation principles and planning.
New Jersey Department of Law & Public Safety, Office of Emergency Management	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	The Mitigation Unit, within the Emergency Management Section, has the mission of enhancing State, county, and municipal risk reduction through the development and implementation of mitigation strategies. Hazard mitigation, by definition, is any sustained action that prevents or reduces the loss of property or human life from recurring hazards. The Mitigation Unit accomplishes this task by implementing and administering several grant-based programs in conjunction with FEMA.
New Jersey Department of Law & Public Safety, Office of Emergency Management	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	The Preparedness Unit is responsible for disseminating preparedness information in advance of a disaster or potential disaster.
New Jersey Department of Law & Public Safety, Office of Emergency Management	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	The Public Assistance Unit accepts and reviews applications for funds for emergency work submitted by local individuals, households and businesses as well as from local governments during and immediately after a disaster.
New Jersey Office of	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	In March 2006, Executive Order No. 5 created OHSP as a cabinet-level agency within state government. The

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Homeland Security and Preparedness (OHSP)									executive order defined the office’s mission as the agency responsible “to administer, coordinate, lead, and supervise New Jersey’s counterterrorism and preparedness efforts.” Further, the executive order charged OHSP with coordinating “the emergency response efforts across all levels of government, law enforcement, emergency management, nonprofit organizations, other jurisdictions, and the private sector, to protect the people of New Jersey. OHSP is the lead agency in preparing the State’s Threat and Hazard Identification and Risk Assessment (THIRA).
New Jersey Department of Agriculture (NJDA)	Animal Disease and Crop Failure		√	√	√	√	√	√	NJDA coordinates with the USDA, the National Association of State Departments of Agriculture, the Northeastern Association of State Departments of Agriculture, and the Communications Officers of State Department of Agriculture to participate in national and regional planning and crisis communications initiatives regarding agriculture and agricultural livestock. Agricultural groups such as the New Jersey Agricultural Society and New Jersey Farm Bureau, as well as individual agricultural commodity groups, participate in routine communications with NJDA on issues of response to manmade agricultural emergencies. NJDA coordinates with both governmental agencies and industry groups and maintains emergency response procedures for agricultural emergencies, including serving as a central communications points for those agencies and groups.
Rutgers	Flood, Severe Storm, Nor’easter, Hurricane / Tropical Storm, Coastal Erosion		√	√	√	√	√	√	The Coastal Training Program provides up-to-date scientific information, access to technologies and skill-building opportunities to professionals responsible for making decisions about coastal resources.
Rutgers	Natural hazards		√	√	√	√	√	√	The Office of the New Jersey State Climatologist (ONJSC) is situated within the New Jersey Agricultural Experiment Station at Rutgers, The State University of New Jersey. The ONJSC mission is three-fold: (1) gather and archive New Jersey weather and climate observations, (2) conduct and foster research associated with New Jersey’s weather and climate, and (3) provide critical climate services to all seeking assistance.
Rutgers	Flood/Severe Storm, Nor’easter, Hurricane /		√	√	√	√	√	√	The Bloustein School conducts mitigation planning, data gathering, and technical studies in support of Statewide hazard mitigation. The school develops

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	Tropical Storm	Planning and Public Policy								
Stevens Institute of Technology	Flood, Severe Storm, Nor'easter, Hurricane / Tropical Storm	Coastal Engineering Research Laboratory	✓	✓	✓	✓	✓	✓	geospatial and analytical tools to support community engagement, policy reform, and State and regional planning efforts.	The university conducts fundamental and applied research on the design, implementation, and monitoring of shore protection structures, systems, and beach fill projects.
U.S. Geological Survey (USGS)	Flood, Severe Storm, Nor'easter, Hurricane/Tropical Storm		✓	✓	✓	✓	✓	✓	USGS maintains a network of gauges across New Jersey that continuously measure tidal levels. USGS provides data to the Department of Environmental Protection for drought determinations	
U.S. Army Corps of Engineers (USACE)	Coastal Erosion, Flood, Severe Storm, Nor'easter, Hurricane/Tropical Storm		✓	✓	✓	✓	✓	✓	Silver Jackets, developed by USACE is the State-level implementation program for the National Flood Risk Management Program. The program's goals are to leverage information and resources from federal, state, and local agencies; improve public risk communication through a united effort; and create a mechanism to collaboratively solve issues and implement initiatives beneficial to local communities.	
New Jersey County Offices of Emergency Management	All		✓	✓	✓	✓	✓	✓	County OEM assists the State with distributing dedicated local infrastructure funding for selected local infrastructure projects.	
Interagency: OAG, NJOEM; OHSP, NJDEP and BPU		Energy Resiliency Program	✓	✓	✓	✓	✓	✓	A portion of Superstorm Sandy HMGP funds will be used to support statewide energy resilience. The energy allocations result from an ongoing collaboration between New Jersey, the U.S. Department of Energy's National Renewable Energy Laboratory (NREL), and the Federal Emergency Management Agency (FEMA).	

**Notes:**  
 As defined in FEMA 386-3:  
 Support: Programs, plans, policies, regulations, funding, or practices that help the implementation of mitigation actions.  
 Facilitate: Programs, plans, policies, etc., that make implementing mitigation actions easier.

*NJOEM New Jersey Office of Emergency Management*  
*NPDES National Pollutant Elimination Systems*  
*OAG Office of the Attorney General*  
*OHSP Office of Homeland Security and Preparedness*  
*ONJSC Office of the New Jersey State Climatologist*  
*RMP Regional Master Plan*  
*ROW Right of Way*  
*SHMT State Hazard Mitigation Team*  
*STIP Statewide Transportation Improvement Program*  
*TIP Transportation Improvement Program*  
*USACE United States Army Corps of Engineers*  
*USGS United States Geological Survey*

*BPU Board of Public Utilities*  
*CDBG Community Development Block Grant Program*  
*CRS Community Rating System*  
*DCA Department of Community Affairs*  
*DWSRF Drinking Water State Revolving Fund*  
*FEMA Federal Emergency Management Agency*  
*GIS Geographic Information System*  
*HMGP Hazard Mitigation Grant Program*  
*MPO Metropolitan Planning Organization*  
*BPU New Jersey Board of Utilities*  
*NJDEP New Jersey Department of Environmental Protection*  
*NFIP National Flood Insurance Program*



**Table 4.2-2  
Funding Sources Available for Mitigation Activities**

Funding Source	Description of the Funding Opportunity
<p>FEMA Federal Disaster Mitigation Funding that require an approved Hazard Mitigation Plan</p> <p>Flood Mitigation Assistance (FMA)</p>	<p>Availability: Pre-Disaster</p> <p>Description: To implement cost-effective measures that reduce or eliminate the long-term risk of flood damage to buildings, manufactured homes, and other structures insured under the National Flood Insurance Program (NFIP).</p> <p>Funding: In fiscal year (FY) 2013, there is \$120 million available in a nationwide competition.</p> <p>The FMA combines the previous Repetitive Flood Claims and Severe Repetitive Loss Grants into one grant program.</p> <p>Availability: Post-Disaster</p>
<p>Hazard Mitigation Grant Program (HMGP)</p>	<p>Description: To provide funds to states, territories, Indian tribal governments, and communities to significantly reduce or permanently eliminate future risk to lives and property from natural hazards. HMGP funds projects in accordance with priorities identified in state, tribal, or local hazard mitigation plans, and enables mitigation measures to be implemented during the recovery from a disaster.</p> <p>Funding: For states with a FEMA-approved Standard State Mitigation Plan, HMGP funds are available based on up to 15% for amounts not more than \$2 billion.</p> <p>An update to HMGP is that FEMA allows increasing the 5% Initiative amount up to 10% for a Presidential major disaster declaration for tornadoes and high winds at the discretion of the grantee. The increased initiative funding can be used for activities that address the unique hazards posed by tornadoes. To qualify for this funding, the grantee must, in its State or Indian Tribal (standard or enhanced) Mitigation Plan or other comprehensive plan, address warning of citizens (ensuring 90% coverage), further the safe room concept in construction or rehabilitation of residences or commercial structures, and address sheltering in mobile home parks. The plan, also, must explain how the grantee will implement an ongoing public education program so that citizens are aware of warning systems and their meaning and the availability of in-home shelter designs. Similar information should be included in the subgrantee's Local or Indian Tribal Mitigation Plan.</p> <p>Availability: Pre-Disaster</p>
<p>Pre-Disaster Mitigation (PDM)</p>	<p>Description: To provide funds to states, territories, tribal governments, and communities for hazard mitigation planning and the implementation of mitigation projects prior to a disaster event. Funding these plans and projects reduces overall risks to the population and structures, while also reducing reliance on funding from actual disaster declarations.</p> <p>Funding: Nationwide competition, total funding available – FY 2013 is \$23,700,000; FY 2012 was \$36 million, FY 2010 was \$24 million, FY 2007 was \$100 million.</p>



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<p><i>Other Federal Grant Programs</i></p>	<p>Fire Management Assistance Grant Program</p>	<p>Availability: Post-Disaster</p>
<p>Reimbursement for Firefighting on Federal Property</p>	<p>Description: Assistance for the mitigation, management, and control of fires on publicly or privately owned forests or grasslands that threaten such destruction as would constitute a major disaster.</p> <p>Funding: Provides a 75% Federal cost share and the State pay the remaining 25% for actual cost.</p> <p>Availability: Post-Disaster</p>	<p>Description: Provides reimbursement only for direct costs and losses over and above normal operating costs.</p> <p>Availability: Pre-Disaster</p>
<p>National Dam Safety Program</p>	<p>Description: National Dam Safety Program (NDSP). The NDSP, which is led by FEMA, is a partnership of the states, federal agencies, and other stakeholders to encourage individual and community responsibility for dam safety. The NDSP, which was formally established by the Water Resources and Development Act of 1996, includes:</p> <p>Funding: Grant assistance to the States: Provides vital support for the improvement of the State dam safety programs that regulate most of the 79,500 dams in the United States. Funding available in FY 2011 was \$11 Million.</p> <p>Availability: To state, local, and conservation organizations</p>	<p>Description: Funding to states for outdoor recreational development, renovation, land acquisition, and planning.</p> <p>Funding: The fund is authorized at \$900 million annually, a level that has been met only twice during the program's 40-year history. The program is divided into two distinct funding pots: state grants and federal acquisition funds. In fiscal year 2005, the federal acquisition pot received \$166 million and the state grants program received \$92.5 million for a total of \$258.5 million. In fiscal year 2006, the federal pot received \$114.5 and the state grants received \$30 million. FY 2007 was similar to the year before receiving \$113 million for federal acquisition and \$30 million for state grants.</p> <p>Availability: Participation in Forest Legacy is limited to private forest landowners.</p>
<p>Land and Water Conservation Fund</p>	<p>Description: Federal program in partnership with states supports efforts to protect environmentally sensitive forest lands. Designed to encourage the protection of privately owned forest lands, Forest Legacy is an entirely voluntary program. To maximize the public benefits it achieves, the program focuses on the acquisition of partial interests in privately owned forest lands. Forest Legacy helps states develop and carry out their forest conservation plans. It encourages and supports acquisition of conservation easements, legally binding agreements transferring a negotiated set of property rights from one party to another, without removing the property from private ownership. Most Forest Legacy Program conservation easements restrict development, require sustainable forestry practices, and protect other values.</p>	<p>Description: Funding to states for outdoor recreational development, renovation, land acquisition, and planning.</p> <p>Funding: The fund is authorized at \$900 million annually, a level that has been met only twice during the program's 40-year history. The program is divided into two distinct funding pots: state grants and federal acquisition funds. In fiscal year 2005, the federal acquisition pot received \$166 million and the state grants program received \$92.5 million for a total of \$258.5 million. In fiscal year 2006, the federal pot received \$114.5 and the state grants received \$30 million. FY 2007 was similar to the year before receiving \$113 million for federal acquisition and \$30 million for state grants.</p> <p>Availability: Participation in Forest Legacy is limited to private forest landowners.</p>
<p>The Forest Legacy Program</p>	<p>Description: Federal program in partnership with states supports efforts to protect environmentally sensitive forest lands. Designed to encourage the protection of privately owned forest lands, Forest Legacy is an entirely voluntary program. To maximize the public benefits it achieves, the program focuses on the acquisition of partial interests in privately owned forest lands. Forest Legacy helps states develop and carry out their forest conservation plans. It encourages and supports acquisition of conservation easements, legally binding agreements transferring a negotiated set of property rights from one party to another, without removing the property from private ownership. Most Forest Legacy Program conservation easements restrict development, require sustainable forestry practices, and protect other values.</p>	<p>Description: Funding to states for outdoor recreational development, renovation, land acquisition, and planning.</p> <p>Funding: The fund is authorized at \$900 million annually, a level that has been met only twice during the program's 40-year history. The program is divided into two distinct funding pots: state grants and federal acquisition funds. In fiscal year 2005, the federal acquisition pot received \$166 million and the state grants program received \$92.5 million for a total of \$258.5 million. In fiscal year 2006, the federal pot received \$114.5 and the state grants received \$30 million. FY 2007 was similar to the year before receiving \$113 million for federal acquisition and \$30 million for state grants.</p> <p>Availability: Participation in Forest Legacy is limited to private forest landowners.</p>

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	<p>Funding: To qualify, landowners are required to prepare a multiple resource management plan as part of the conservation easement acquisition. The federal government may fund up to 75% of project costs, with at least 25% coming from private, state, or local sources. In addition to gains associated with the sale or donation of property rights, many landowners also benefit from reduced taxes associated with limits placed on land use.</p> <p>Availability: Pre and Post-Disaster</p>
<p>Transportation Trust Fund</p>	<p>Description: Transportation Trust Fund funds grants through a competitive application-based process administered by the Local Aid District Offices.</p> <p>Funding: \$78.75 million in funding was available in fiscal year 2008 by the Municipal Aid Program.</p> <p>Description: County Aid Program- Administer the County Aid Program for road and bridge infrastructure improvements under county jurisdiction. Each County receives an annual formula based allotment that takes into consideration county road lane mileage and population. The County Aid Program is funded through the Transportation Trust Fund and provides funding for eligible costs of projects included in the county's approved Annual Transportation Program.</p> <p>Funding: \$78.75 million in funding was available in the fiscal year 2008 through the County Aid Program.</p> <p>Availability: Pre and Post-Disaster</p>
<p>Hurricane Sandy Coastal Resiliency Competitive Grant Program</p>	<p>Description: The program will use competitive grants to award funding for science-based solutions by States, local communities, non-profit organizations and other partners to help restore key habitats and bolster natural systems, enabling these areas to withstand the impact and better protect local communities from future storms.</p> <p>Funding: \$100 million in competitive grants.</p> <p>Availability: Pre Disaster</p>
<p>Department of Homeland Security Grant Program (HSGP)</p>	<p>Description: The Homeland Security Grant Program (HSGP) plays an important role in the implementation of the National Preparedness System by supporting the building, sustainment, and delivery of core capabilities essential to achieving the National Preparedness Goal of a secure and resilient nation. The FY 2013 HSGP supports core capabilities across the five mission area of Prevention, Protection, Mitigation, Response, and Recovery based on allowable cost. HSGP is composed of three interconnected grant programs including the State Homeland Security Program (SHSP), Urban Areas Security Initiative (UASI), and the Operation Stonegarden (OPSG). Together, these grant programs fund a range of preparedness activities, including planning, organization, equipment purchase, training, exercises, and management and administration.</p> <p>Funding: SHSP – total funding available for FY 2013 - \$354,644,123; UASI – total funding available for FY 2013 - \$558,745,566; and OPSG – total funding available in FY 2013 - \$55,000,000.</p>



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<p>Emergency Management Performance Grand Program (EMPG)</p>	<p>Availability: Pre Disaster</p> <p>Description: Grants are available to State, local, territorial, and tribal governments in preparing for all hazards. The Federal Government, through the EMPG Program, provides necessary direction, coordination and guidance, and provides necessary assistance, as authorized so that a comprehensive emergency preparedness system exists at all levels for all hazards.</p>
<p>U.S. Small Business Administration Loan Programs</p>	<p>Funding: Total funding available in FY 2013: \$332,456,012</p> <p>Availability: Post Disaster</p> <p>Description: Small Business Administration (SBA) provides low-interest disaster loans to homeowners, renters, business of all sizes, and most private nonprofit organizations. SBA disaster loans can be used to repair or replace the following items damaged or destroyed in a declared disaster: real estate, personal property, machinery and equipment, and inventory and business assets.</p> <p>Funding: Homeowners may apply for up to \$200,000 to replace or repair their primary residence. Renters and homeowners may borrow up to \$40,000 to replace or repair personal property—such as clothing, furniture, cars, and appliances – damaged or destroyed in a disaster. Physical disaster loans of up to \$2 million are available to qualified businesses or most private nonprofit organizations. As of October 7, 2013, SBA has approved \$828.5 million in loans to homes and businesses in New Jersey.</p>
<p>Community Development Block Grant – Disaster Recovery (CDBG-DR)</p>	<p>Availability: Post Disaster</p> <p>Description: Disaster Recovery funds are made available to States, units of general local governments, Indian tribes, and Insular areas designated by the President of the United States as a disaster area. These communities must have significant unmet recovery needs and the capacity to carry out a disaster recovery program. Grants are available to rebuild the affected areas and provide crucial seed money to start the recovery process.</p> <p>The State has developed various programs using CDBG-DR funds to help homeowners, renters, businesses, and communities impacted by Superstorm Sandy. For more information on these funding programs, refer to the following table or visit <a href="http://reNewJerseyStronger.org">reNewJerseyStronger.org</a></p> <ul style="list-style-type: none"> <li>• CDBG-DR Homeowner Assistance Programs</li> <li>• CDBG-DR Rental Housing and Renter Programs</li> <li>• CDBG-DR Economic Revitalization</li> <li>• CDBG-DR Support for Governmental Entities</li> <li>• CDBG-DR Supportive Services Programs</li> <li>• CDBG-DR Planning, Oversight, and Monitoring</li> </ul> <p>Funding: FY 2013 - \$16 billion to assist recovery from Superstorm Sandy.</p>



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<p>U.S. Army Corp of Engineers Flood Plain Management Services Program</p>	<p>Availability: Pre or Post Disaster</p> <p>Description: The Flood Plain Management Services Program provides a full range of technical services and planning guidance that is needed to support effective flood plain management.</p>
<p>U.S. Environmental Protection Agency</p>	<p>Funding: None</p> <p>Availability: Post Disaster</p> <p>Description: The EPA has allocated funding to the State of New Jersey for improvements to wastewater and drinking water treatment facilities impacted by Superstorm Sandy. The State has created programs to maximize this investment by leveraging available funds to offer low interest loans with opportunities for principal forgiveness. These loans will help fund the repair of Sandy-damaged infrastructure and improve resiliency of the State’s environmental infrastructure. The State has also created the Short-term Statewide Assistance Infrastructure Loan Program (SAIL), which is designed to provide facilities with short-term cash flow assistance for Sandy recovery project expenses that will ultimately be financed through other federal grant programs, including FEMA’s Public Assistance reimbursement program.</p>
<p>U.S. Department of Health and Human Services – Social Services Block Grant</p>	<p>Funding: \$229 Million to the State of New Jersey for improvements to wastewater and drinking water treatment facilities impacted by Superstorm Sandy.</p> <p>Availability: Post Disaster</p> <p>Description: Post-Sandy funding will be applied to support services with a focus on physical and mental health, as well as the recovery needs of children and families.</p> <p>Funding: The U.S. Department of Health and Human Services (HHS) allocated \$226 million to New Jersey as part of the Sandy Supplemental Social Services Block Grant (SSBG).</p>
<p>Sources: FEMA 2013b, c, d, e</p> <p>Notes:</p> <p><i>CDBG-DR Community Development Block Grant – Disaster Recover</i></p> <p><i>EMPG Emergency Management Performance Grant Program</i></p> <p><i>FEMA Federal Emergency Management Agency</i></p> <p><i>FMA Flood Mitigation Assistance</i></p> <p><i>FY Fiscal Year</i></p> <p><i>HHS U.S. Department of Health and Human Services</i></p> <p><i>HMGP Hazard Mitigation Grant Program</i></p> <p><i>HSGP Homeland Security Grant Program</i></p> <p><i>NDSP National Dam Safety Program</i></p> <p><i>NFIP National Flood Insurance Program</i></p> <p><i>OPSG Operation Stonegarden</i></p> <p><i>PDM Pre-Disaster Mitigation</i></p> <p><i>SBA Small Business Administration</i></p> <p><i>SHSP State Homeland Security Program</i></p> <p><i>UASI Urban Area Security Initiative</i></p>	

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### ***Federal Resources***

FEMA has developed a large number of documents that address implementing hazard mitigation at the local level. Key resource documents are briefly described.

*Local Mitigation Planning Handbook.* This handbook is the official guide for local governments to develop, update and implement local mitigation plans. While federal requirements have not changed, the Handbook provides revised and expanded guidance, offering practical approaches, tools, worksheets and local mitigation planning examples for how communities can engage in effective planning to reduce long-term risk from natural hazards and disasters. The Handbook can be found on the FEMA web site at: <http://www.fema.gov/library/viewRecord.do?id=7209>

*Mitigation Ideas: A Resource for Reducing Risk to Natural Hazards, January 2013.* The purpose of this document is to provide a resource that communities can use to identify and evaluate a range of potential mitigation actions for reducing risk to natural hazards and disasters. The focus of this document is mitigation, which is action taken to reduce or eliminate long-term risk to hazards. Ideas for mitigation actions are presented for the following natural hazards: drought, earthquake, erosion, extreme temperatures, flood, hail, landslide, lightning, sea level rise, severe wind, severe winter weather, storm surge, subsidence, tornado, tsunami, and wildfire. This resource can be found on the FEMA web site at: [http://www.fema.gov/media-library-data/20130726-1904-25045-0186/fema\\_mitigation\\_ideas\\_final508.pdf](http://www.fema.gov/media-library-data/20130726-1904-25045-0186/fema_mitigation_ideas_final508.pdf)

*Integrating Hazard Mitigation into Local Planning: Case Studies and Tools for Community Officials.* The purpose of this document is to provide succinct and practical information to local government officials on how to best integrate hazard mitigation into the full range of community planning activities. It is intended for those who are engaged in any type of local planning, but primarily community planners and emergency managers that bear responsibility for hazard mitigation planning. This resource can be found on the FEMA web site at: [http://www.fema.gov/media-library-data/20130726-1908-25045-0016/integrating\\_hazmit.pdf](http://www.fema.gov/media-library-data/20130726-1908-25045-0016/integrating_hazmit.pdf)

*How-to Guides.* FEMA has developed a series of nine “how-to guides” to assist States, communities, and tribes in enhancing their hazard mitigation planning capabilities. The first four guides mirror the four major phases of hazard mitigation planning used in the development of the Monmouth County Multi-Jurisdictional Hazard Mitigation Plan. The last five how-to guides address special topics that arise in hazard mitigation planning such as using benefit-cost analysis and integrating man-made hazards. The use of worksheets, checklists, and tables make these guides a practical source of guidance to address all stages of the hazard mitigation planning process. They also include special tips on meeting DMA 2000 requirements.

*Post-Disaster Hazard Mitigation Planning Guidance for State and Local Governments.* FEMA, DAP-12, September 1990. This handbook explains the basic concepts of hazard mitigation, and shows State and local governments how they can develop and achieve mitigation goals within the context of FEMA’s post-disaster hazard mitigation planning requirements. The handbook focuses on approaches to mitigation, with an emphasis on multi-objective planning.

*Mitigation Resources for Success CD.* FEMA 372, September 2001. This CD contains a wealth of information about mitigation and is useful for State and local government planners and other stakeholders in the mitigation process. It provides mitigation case studies, success stories, information about Federal mitigation programs, suggestions for mitigation measures to homes and businesses, appropriate relevant mitigation publications, and contact information.

*A Guide to Federal Aid in Disasters.* FEMA 262, April 1995. When disasters exceed the capabilities of State and local governments, the President's disaster assistance program (administered by FEMA) is the primary source of Federal assistance. This handbook discusses the procedures and process for obtaining this assistance, and provides a brief overview of each program.

*The Emergency Management Guide for Business and Industry.* FEMA 141, October 1993. This guide provides a step-by-step approach to emergency management planning, response, and recovery. It also details a planning process that companies can follow to better prepare for a wide range of hazards and emergency events. This effort can enhance a company's ability to recover from financial losses, loss of market share, damages to equipment, and product or business interruptions. This guide could be of great assistance to Monmouth County industries and businesses located in hazard prone areas.

### ***Important Websites***

The following are important websites that provide focused access to valuable planning resources for communities interested in sustainable development initiatives.

- <http://www.fema.gov> - Web site of the Federal Emergency Management Agency includes links to information, resources, and grants that communities can use in planning and implementation of sustainable measures. Most notably:
  - <http://www.fema.gov/what-mitigation> - To learn more about mitigation and how to make it work for you.
  - <http://www.fema.gov/multi-hazard-mitigation-planning> - For information about multi-hazard mitigation planning.
  - <http://www.region2coastal.com/> - For the latest information about flood risk in coastal New York and New Jersey.
- <https://www.floodsmart.gov/floodsmart/> - The official site of FEMA's National Flood Insurance Program.
- <http://mitigationguide.org/> - "Beyond the Basics: Best Practices in Local Mitigation Planning", a website developed as part of a multi-year research study funded by the U.S. Department of Homeland Security, and led by the Center for Sustainable Community Design within the Institute for the Environment at the University of North Carolina at Chapel Hill.
- <http://www.planning.org> – Web site of the American Planning Association, a non-profit professional association that serves as a resource for planners, elected officials, and citizens concerned with planning and growth initiatives.
  - <https://www.planning.org/nationalcenters/hazards/mitigationplanning.htm> - Includes information about hazard mitigation planning prepared by the association's Hazards Planning Research Center.
- <http://www.ibhs.org> – Web site of the Institute for Business and Home Safety, an initiative of the insurance industry to reduce deaths, injuries, property damage, economic losses, and human suffering caused by natural disasters. Online resources provide information on natural hazards, community land use, and ways you can protect your property from damage.

**Federal Technical Assistance and Funding**

The Federal government offers a wide range of funding and technical assistance programs that communities can access to assist in their long-term recovery. Some of these programs are geared to disaster preparedness and mitigation planning, while the focus of others is the long-term vitality of the communities. **Table 4.3-1** presents a summary of Federal funding sources available for mitigation activities. Further information on these and other Federal programs can be found in the Catalog of Federal Domestic Assistance (CFDA) available online at [www.cfda.gov](http://www.cfda.gov).

<b>Table 4.3-1 Federal Funds Available for Mitigation Activities</b>	
Funding Source	Description
<i>Funding that Requires an Approved Hazard Mitigation Plan:</i>	
Flood Mitigation Assistance Program (FMA)	<i>Availability:</i> Pre-disaster <i>Description:</i> To implement cost-effective measures that reduce or eliminate the long-term risk of flood damage to building, manufactured homes, and other structures insured under the National Flood Insurance Program (NFIP)/ <i>Funding:</i> In FY 2007, there was \$31 million available in a nationwide competition.
Hazard Mitigation Grant Program (HMGP)	<i>Availability:</i> Post-disaster <i>Description:</i> To provide funds to States, territories, Indian Tribal governments, and communities to significantly reduce or permanently eliminate future risk to lives and property from natural hazards. HMGP funds projects in accordance with priorities identified in State, Tribal or local hazard mitigation plans, and enables mitigation measures to be implemented during the recovery from a disaster. <i>Funding:</i> A State has a FEMA-approved Standard State Mitigation Plan, HMGP funds are available based on up to 15 percent for amounts not more than \$2 billion.
Pre-Disaster Mitigation Program (PDM)	<i>Availability:</i> Pre-disaster <i>Description:</i> To provide funds to states, territories, Indian Tribal governments, and communities for hazard mitigation planning and the implementation of mitigation projects prior to a disaster event. Funding these plans and projects reduces overall risks to the population and structures, while also reducing reliance on funding from actual disaster declarations. <i>Funding:</i> Nationwide competition, total funding available - FY 2007 was \$100 million
<i>Other Available Federal Funds:</i>	
Fire Management Assistance Grant Program	<i>Availability:</i> Post-disaster <i>Description:</i> Assistance for the mitigation, management, and control of fires on publically or privately owned forests or grasslands, which threaten such destruction as would constitute a major disaster. <i>Funding:</i>
Community Development Block Grant	<i>Availability:</i> Pre-or post-disaster <i>Description:</i> Federal grant provided to CDBG “entitlement communities” (typically, municipalities with populations over 50,000 and urban counties with populations over 200,000) and to all states. <i>Funding:</i> Varies
Reimbursement for Firefighting on Federal Property	<i>Availability:</i> Post-disaster <i>Description:</i> Provides reimbursement only for direct costs and losses over and above normal operating costs
National Dam Safety Program	<i>Availability:</i> Pre-disaster <i>Description:</i> The NDSP was formally established by the Water Resources and Development Act of 1996. Led by FEMA, the NDSP is a partnership of the states, federal agencies, and other stakeholders to encourage individual and community responsibility for dam safety. <i>Funding:</i> Provides vital support for the improvement of the state dam safety programs that regulate most of the 79,500 dams in the United States.

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<p>Land and Water Conservation Fund (LWCF)</p>	<p><i>Availability:</i> To States, local and conservation organizations  <i>Description:</i> Funding for outdoor recreational development, renovation, land acquisition, and planning.  <i>Funding:</i> LWCF is authorized at \$900 million annually, a level that has been met only twice during the program’s 40 year history. The program is divided into two distinct funding pots: State grants, and Federal acquisition funds. In FY 2005, the federal acquisition pot received \$166 million and the state grants program received \$92.5 million for a total of \$258.5 million. In FY 2006 the federal pot received \$114.5 million and the state grants received \$30 million. FY 2007 was similar to the year before, receiving \$113 million for federal acquisition and \$30 million for state grants.</p>
<p>The Forest Legacy Program (FLP)</p>	<p><i>Availability:</i> Participation in Forest Legacy is limited to private forest landowners.  <i>Description:</i> Federal program in partnership with States, supports State efforts to protect environmentally sensitive forest lands. Designed to encourage the protection of privately owned forest lands, FLP is an entirely voluntary program. To maximize the public benefits it achieves, the program focuses on the acquisition of partial interests in privately owned forest lands. FLP helps the States develop and carry out their forest conservation plans. It encourages and supports acquisition of conservation easements, legally binding agreements transferring a negotiated set of property rights from one party to another, without removing the property from private ownership. Most FLP conservation easements restrict development, require sustainable forestry practices, and protect other values.  <i>Funding:</i> To qualify, landowners are required to prepare a multiple resource management plan as part of the conservation easement acquisition. The federal government may fund up to 75 percent of project costs, with at least 25 percent coming from private, State or local sources. In addition to gains associated with the sale or donation of property rights, many landowners also benefit from reduced taxes associated with limits placed on land use. In 2008, NJ has one project funded: Sparta Mountain South at \$2,474,000.</p>
<p>Transportation Trust Fund (TTF)</p>	<p><i>Availability:</i> Pre- and post-disaster  <i>Description:</i> Grants are funded by the TTF through a competitive application based process administered by the Local Aid District Offices.  <i>Funding:</i> \$78.75 million in TTF funding was available in the FY 2008 Municipal Aid Program.  <i>Description:</i> The County Aid Program is funded through the TTF and provides funding for eligible costs of projects included in the County’s approved Annual Transportation Program. The program is intended for road and bridge infrastructure improvements under county jurisdiction. Each County receives an annual formula based allotment that takes into consideration county road lane mileage and population.  <i>Funding:</i> \$78.75 million in TTF funding was available in the FY 2008 County Aid Program.</p>

**APPENDIX 6.1 – MONMOUTH COUNTY SANDY LETTERS OF INTENT**

Applicant Name	Program	Type	Title	Amount
Asbury Park	HMGP	E-Building	Elevation of 75 homes.	\$7,500,000.00
Asbury Park	HMGP	G	Generator for Wastewater Treatment Plant	\$330,000.00
Aberdeen Township	HMGP	E-Other	Road Elevation	\$525,000.00
Allentown	HMGP	D	Sewer Line Improvements	\$1,333,333.67
Allentown	HMGP	D	Retrofit of Wastewater Treatment Plant	\$446,810.00
Allentown	HMGP	G	Generator for Wastewater Treatment Plant	\$466,830.00
Allentown	HMGP	D	Retrofit of Water Treatment Plant	\$680,225.00
Asbury Park	HMGP	G	Generator for City Hall	\$395,000.00
Asbury Park	HMGP	G	Generator for Senior Center	\$290,000.00
Atlantic Highlands	HMGP	G	Generator for Observatory Place	\$46,500.00
Atlantic Highlands	HMGP	D	Residential Bluff Stabilization	\$340,523.00
Atlantic Highlands	HMGP	D	Roadway Bluff Stabilization	\$772,668.75
Atlantic Highlands	HMGP	E-Building	Elevations of 5 homes	\$407,750.00
Avon (Avon By The Sea)	HMGP	E-Building	Elevation of 113 homes.	\$28,700,000.00
Brielle	HMGP	E-Building	Elevation of 225 homes.	\$24,127,500.00
Bradley Beach	HMGP	E-Building	Elevation of 74 homes.	\$16,200,000.00
Deal	HMGP	D	Shoreline Protection	\$408,000.00
Atlantic Highlands- Regional Sewerage Authority	HMGP	E-Other	Retrofit and elevation of critical components	\$250,000.00
Atlantic Highlands- Regional Sewerage Authority	HMGP	E-Other	Elevation & retrofit of critical systems	\$100.00
Farmingdale	HMGP	G	Generator for Critical Facilities and Barriers	\$166,332.00
Fair Haven	HMGP	G	Generator for Borough Hall	\$30,800.00
Fair Haven	HMGP	G	Generator for Public Works	\$20,200.00
Highlands Borough Housing Authority	HMGP	G	Generator for Jennie Parker Manor	\$63,000.00
Highlands Borough Housing Authority	HMGP	G	Generator for Ptak Towers	\$98,000.00
Highlands	HMGP	E-Building	Elevations of 918 homes and 152 commercial buildings.	\$145,400,000.00
Belmar	HMGP	D	Seawall and Dunes	\$8,395,000.00
Belmar	HMGP	F-Building	Elevation of 114 homes.	\$11,001,900.00
Belmar	HMGP	D	Silver Lake Flood Mitigation	\$1,548,173.00
Belmar	HMGP	D	Lake Como Flood Mitigation	\$1,458,200.00
Belmar	HMGP	G	Generator for Emergency Evacuation Center	\$170,200.00
Belmar	HMGP	D	L Street Bulkhead	\$2,726,000.00
Manalapan (Township Of)	HMGP	A/D-Building	Acquisitions	\$3,585,750.00
Spring Lake Heights	HMGP	A/D-Building	Acquisitions	\$3,933,200.00
Spring Lake Heights	HMGP	E-Building	Elevation of 12 homes.	\$600,000.00
Spring Lake Heights	HMGP	E-Other	Pump Stations Elevations	\$450,000.00
Spring Lake Heights	HMGP	D	Utility Elevations	\$20,000.00
Freehold Boro	HMGP	G	Generator for Fire Station	\$100,000.00
Englishtown	HMGP	G	Generator for Water Treatment Plant	\$100,000.00
Neptune City	HMGP	G	Generators for Critical Facilities	\$300,000.00
Neptune (Township Of)	HMGP	A/D-Building	Acquisitions	\$4,000,000.00
Neptune City	HMGP	CS	Saferoom	\$75,000.00
Neptune (Township Of)	HMGP	E-Building	Elevation of 23 homes.	\$5,750,000.00
Neptune (Township Of)	HMGP	A/D-Building	Acquisitions	\$92,500.00
Neptune (Township Of)	HMGP	G	Generator for Critical Facilities	\$85,000.00
Keansburg Borough	HMGP	A/R	Relocation of Police Headquarters	\$2,812,500.00

Keansburg Borough	HMGP	G	Generator Installation and Pump Station Improvements	\$2,062,500.00
Keansburg Borough	HMGP	E-Building	Elevation of 130 homes.	\$11,700,000.00
Keansburg Borough Housing Authority	HMGP	G	Generator for Senior Facility	\$750,000.00
Little Silver	HMGP	E-Building	Elevation of 114 homes.	\$1,800,000.00
Lake Como (Como)	HMGP	D	Water Distribution Center Upgrade	\$2,700,000.00
Lake Como (Como)	HMGP	WR	Wind Retrofit of Municipal Complex	\$75,000.00
Lake Como (Como)	HMGP	G	Generator for Municipal Building	\$80,000.00
Lake Como (Como)	HMGP	G	Generator for First Aid Emergency Shelter	\$40,000.00
Lake Como (Como)	HMGP	G	Generator for School Emergency Evacuation Shelter	\$70,000.00
Lake Como (Como)	HMGP	G	Generator for Public Works Building	\$40,000.00
Lake Como (Como)	HMGP	E-Building	Elevation of 100 homes.	\$10,000,000.00
Loch Arbour Village	HMGP	D	Dune System and Upgrade to Public Shoreline	\$3,000,000.00
Keyport	HMGP	E-Building	Elevation of 95 homes.	\$2,850,000.00
Keyport	HMGP	A/D-Building	Acquisition of 7 homes	\$3,566,800.00
Keyport	HMGP	D	Bulkhead Improvements	\$951,800.00
Keyport	HMGP	F	Maple Place Pump Station Improvements	\$718,900.00
Keyport	HMGP	G	Generator for Sewer Pump Station	\$135,000.00
Hazlet (Township Of)	HMGP	G	Generators for Critical Facilities	\$283,500.00
Keyport	HMGP	D	Road Culvert and Drainage Improvements	\$308,427.00
Keyport	HMGP	D	Stormwater System Improvements	\$1,102,556.00
Keyport	HMGP	D	Fireman's Park Bulkhead	\$569,370.00
Keyport	HMGP	D	Cedar Street Pump Station Improvements	\$455,000.00
Keyport	HMGP	D	Duck Bills and Outflow Pipes	\$46,188.00
Marlboro (Township Of)	HMGP	D	Big Brook Soil Stabilization	\$844,477.20
Matawan	HMGP	D	Aberdeen Road Elevation	\$4,981,837.50
Marlboro (Township Of)	HMGP	G	Generators for Critical Facilities	\$828,000.00
Manasquan	HMGP	P	Watershed Analysis Project	\$100,000.00
Manasquan	HMGP	D	Judas Creek Flood Mitigation	\$1,692,250.00
Manasquan	HMGP	D	Brielle Road Mitigation	\$3,034,140.00
Middletown (Township Of)	HMGP	G	Generator for School Shelters	\$880,000.00
Manasquan	HMGP	G	Generator for OEM	\$25,000.00
Manasquan	HMGP	E-Building	Elevation 1406 homes.	\$168,720,000.00
Middletown (Township Of)	HMGP	G	Generator for Fire/First Aid	\$123,147.00
Middletown (Township Of)	HMGP	G	Generators for Fire Dept.	\$196,220.00
Middletown (Township Of)	HMGP	D	Port Monmouth Drainage Improvements	\$110,000.00
Middletown (Township Of)	HMGP	D	Port Monmouth Drainage II	\$170,000.00
Middletown (Township Of)	HMGP	E-Building	Elevation of 150 homes.	\$13,500,000.00
Middletown (Township Of)	HMGP	D	Stream Cleaning	\$3,294,900.00
Millstone (Township Of)	HMGP	G	Generator at Critical Facilities	\$57,500.00
Millstone (Township Of)	HMGP	G	Generator for Community Center	\$11,000.00
Monmouth Beach	HMGP	F-Building	Elevation of the Cultural Center	\$240,000.00
Monmouth Beach	HMGP	E-Building	Elevation of First Aid Building	\$240,000.00
Millstone (Township Of)	HMGP	G	Generator for Town Hall	\$58,500.00
Monmouth Beach	HMGP	E-Building	Elevation of Library	\$270,000.00
Monmouth Beach	HMGP	E-Building	Elevation of Police Building	\$240,000.00
Monmouth Beach	HMGP	E-Building	Fire House Elevation	\$270,000.00
Monmouth Beach	HMGP	E-Building	Borough Hall Elevation	\$340,000.00
Monmouth Beach	HMGP	D	Height Addition and Re-Grouting of Seawall	\$3,500,000.00
Monmouth Beach	HMGP	D	Shoreland Park Retaining Wall Elevation	\$200,000.00

Monmouth Beach	HMGP	D	Stormwater Pump Station Construction	\$100,000.00
Monmouth Beach	HMGP	E-Building	Elevation of 460 homes.	\$55,200,000.00
Ocean (Township Of)	HMGP	A/D-Building	Acquisitions	\$4,409,608.75
Ocean (Township Of)	HMGP	G	Generator for Emergency Shelters	\$121,397.00
Oceanport	HMGP	E-Building	Elevation of 188 homes.	\$48,955,200.00
Oceanport	HMGP	G	Generator for School Shelter	\$250,000.00
Oceanport	HMGP	D	Storm Water Project	\$950,000.00
Oceanport	HMGP	G	Generator for Emergency Command Center	\$140,000.00
Red Bank	HMGP	G	Marine Park and sanitary pump station flood proofing and generators.	\$780,576.00
Union Beach	HMGP	D	Construction of Stone retention wall	\$1,900,000.00
Union Beach	HMGP	E-Other	Spruce Street Road Elevation	\$684,458.00
Union Beach	HMGP	E-Building	Elevation of 1,929 homes.	\$231,480,000.00
Rumson	HMGP	E-Other	Diesel Tanks.	\$200,000.00
Rumson	HMGP	D	Installation of 150 linear feet of Bulkhead and replacement of drainage pipes	\$510,000.00
Rumson	HMGP	F	Floodproofing Doors at DPW	\$100,000.00
Rumson	HMGP	G	Pump stations flood proofing and generators	\$250,000.00
Red Bank	HMGP	G	Senior Center back up generator	\$101,059.00
Red Bank	HMGP	A/R	Relocation of Park restrooms.	\$627,110.00
Rumson	HMGP	E-Building	Elevation of 32 homes.	\$7,120,000.00
Rumson	HMGP	D	Elevated Bulkhead and a new Tidal Valve	\$180,000.00
Red Bank	HMGP	G	Fire house generators	\$276,658.00
Middletown (Township Of)	HMGP	E-Other	Elevate pump station equipment.	\$1,000,000.00
Middletown (Township Of)	HMGP	G	Generator for waste water treatment plant	\$500,000.00
Monmouth County Bayshore Outfall Authority	HMGP	E-Other	Elevating pump station.	\$340,000.00
Long Branch Sewerage Authority	HMGP	E-Other	Elevation of substation and generator.	\$750,000.00
Atlantic Highlands- Regional Sewerage Authority	HMGP	F	Retrofit Sewerage Pumping Bldgs	\$115,000.00
Manasquan	HMGP	ANS	Radio communication link.	\$20,000.00
Manasquan	HMGP	G	Generators	\$100,000.00
Ocean (Township Of)	HMGP	D	Elevation of the Interlaken Pump Station	\$2,864,400.00
Monmouth (County)	HMGP	ANS	Hazards notification system	\$175,000.00
Monmouth County Public Works	HMGP	D	IMPLEMENT A REGIONAL STORMWATER MANAGEMENT SYSTEM	\$10,000,000.00
Monmouth County Public Works	HMGP	E-Other	Road elevations	\$3,000,000.00
Monmouth County Public Works	HMGP	G	Generators at Monmouth County Hall of records and human services	\$1,110,000.00
Monmouth (County)	HMGP	G	GENERATORS AT HWY DISTRICTS 1,3,4,5,8,9, 10	\$2,000,000.00
Wall Township	HMGP	G	Generator for Municipal Building	\$80,000.00
Wall Township	HMGP	G	Emergency Operation Center Generator	\$100,000.00
Wall Township	HMGP	G	7 Generators	\$457,093.00
Long Branch	HMGP	E-Building	Elevation of 55 homes.	\$13,585,000.00
Long Branch	HMGP	D	City of Long Branch Flood Protection	\$1,385,589.00
Long Branch	HMGP	WR	Long Branch Wind Straps and Storm Shutters	\$275,000.00
Long Branch	HMGP	G	Long Branch Generators	\$50,000.00
Spring Lake (Spring Lake Beach)	HMGP	E-Building	Elevation of 150 homes.	\$6,000,000.00

Shrewsbury (Township Of)	HMGP	G	Generator for EOC	\$35,000.00
Shrewsbury (Township Of)	HMGP	WR	Retrofit Electrical Infrastructure	\$800,000.00
Shrewsbury Borough Office Of Emergency Management	HMGP	G	Generator	\$95,000.00
Sea Girt	HMGP	ANS	Emergency Public Awareness Radio Station	\$50,000.00
Sea Girt	HMGP	ANS	Emergency Signage	\$70,000.00
Sea Girt	HMGP	D	Outflow Pipe	\$1,300,000.00
Sea Girt	HMGP	E-Building	Elevation of 189 homes.	\$20,790,000.00
Sea Girt	HMGP	D	Retaining Wall	\$100,000.00
Sea Girt	HMGP	G	Generator for Critical Facilities	\$30,000.00
Sea Girt	HMGP	ANS	Emergency Alert Siren	\$200,000.00
Sea Bright	HMGP	E-Building	Elevation of 114 homes.	\$105,000,000.00
Sea Bright	HMGP	E-Other	Bulkhead Elevation	\$10,286,600.00
Sea Bright	HMGP	D	Floodproofing of Downtown District	\$5,250,000.00
Spring Lake (Spring Lake Beach)	HMGP	D	Dune Protection and Boardwalk Upgrades	\$12,500,000.00
Howell (Township Of)	HMGP	G	Generator for Police Headquarters	\$188,000.00
Atlantic Highlands	HMGP	G	Emergency Generator for Municipal Harbor	\$43,500.00
Long Branch	HMGP	G	Emergency Generators for Senior Center and Lenna Conrow School	\$135,000.00
Sea Girt	HMGP	G	Generator for Department of Public Works	\$15,000.00
Monmouth (County)	HMGP	G	Monmouth University	\$650,000.00
Monmouth (County)	HMGP	G	Brookdale Community College - For Shelter	\$650,000.00
Freehold (Township Of)	HMGP	G	Freehold Mobile Generator	\$100,000.00
Keansburg Borough Housing Authority	HMGP	G	Keansburg Housing Authority Granville Tower Generator	\$98,000.00
Long Branch	HMGP	F	Long Branch Flood Control Project	\$235,589.00
Long Branch	HMGP	F	Long Branch Bay Avenue Bulkhead Project	\$70,000.00
Middletown Twp Sewerage Auth	HMGP	E-Other	Middletown Sewerage Authority Elevate Equipment	\$2,032,000.00
Monmouth (County)	HMGP	G	Monmouth County Mobile Generator	\$438,176.00
Red Bank	HMGP	G	Red Bank Pump Station Generators	\$276,657.00
Rumson	HMGP	F	Rumson West Park Area Flood Mitigation Project	\$130,000.00
Long Branch Housing Authority (City Of)	HMGP	G	Emergency Generators for Senior Housing	\$750,000.00
Keyport	HMGP	D	Stormwater Discharge	\$700,000.00
Fair Haven	HMGP	G	Energy Allocation - Generators	\$51,000.00
Keansburg Borough Housing Authority	HMGP	G	Keansburg Housing Authority Granville Tower Generator	\$100,000.00
Long Branch Housing Authority (City Of)	HMGP	G	Long Branch Housing Authority Hobart Manner Generator	\$100,000.00
Middletown (Township Of)	HMGP	G	Energy Allocation - Generators	\$567,147.00
Middletown (Township Of)	HMGP	E-Other	Middletown Township (Utility Authority) Pump Station Equipment Elevation	\$2,032,000.00
Middletown (Township Of)	HMGP	E-Other	Middletown (Sewerage Authority) Pump Station Improvements	\$1,282,000.00