

Monmouth County Mitigation Action Worksheets

Community Action Number: 38_03

Ocean, Township of

Describing the Action

Action Name:	Reconstruct Roseld Avenue Dam
Action Category:	Mitigation - Continuity of Functional Use
Action Type:	Natural Systems Protection
HMA Eligible Activity:	Mitigation Reconstruction
Action Description:	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.

Evaluating the Action

Hazard(s) Addressed:	Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm
Goals:	1, 2, 3, 5, 6
Risk Reduction:	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.
Technical:	Technically feasible.
Political:	Political actions present in support of effort.
Legal:	The dam is located on private property; Township will work with private property owner on acquiring necessary permits, approvals, and grants to complete the project.
Environmental:	No adverse environmental impact anticipated.
Social:	Does not adversely affect any particular social group. Perceived by the public to be a good thing because it reduces risk for individual homeowners.
Administrative Capability:	Township has sufficient capacity and experience to administer this action.
Local Champion:	Township Manager, Engineer, OEM, Deal Lake Commission and DPW
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$1,000,000.00
Priority:	
Local Planning Mechanism:	Local officials, County and State agencies
Responsible Party:	Township Manager, DPW, NJDEP, Deal Lake Commission and Engineer
Likely Funding Source(s):	
Timeline:	
Action Status:	Withdrawn
Notes:	Withdrawn action; Township had the money but the private property owner (golf course) backed out of the project and the Township cannot proceed without the property owner's consent.

Monmouth County Mitigation Action Worksheets

Community Action Number: 38_04

Ocean, Township of

Describing the Action

Action Name:	Purchase and Install Generators for Town Hall
Action Category:	
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Generators
Action Description:	Upgrade the current and outdated generator at the Town Hall which houses the Emergency Operations Center for OEM, Police Dept, and Public Works offices which is also used as a reception center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.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm
Goals:	3, 7
Risk Reduction:	Emergency operations used in major storm events for police communication, OEM, Public Works, and sheltering do not have an adequate emergency generator for power.
Technical:	Technically feasible.
Political:	Political actions present in support of effort.
Legal:	No legal issues.
Environmental:	None anticipated; generators would be natural gas units; locations of generators has already been established and the size will be ungraded.
Social:	No social impact; locations of generators would not impact area.
Administrative Capability:	Engineering Department
Local Champion:	Township Manager, OEM, DPW, Police, elected officials
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$500,000.00
Priority:	
Local Planning Mechanism:	Township Manager, DPW, Engineer, Police and OEM
Responsible Party:	Township Manager, Police, DPW and Engineer
Likely Funding Source(s):	Federal, state, county grants with some local funds
Timeline:	
Action Status:	Completed
Notes:	Moved old generator to gym (which is a Critical Facility).

Monmouth County Mitigation Action Worksheets

Community Action Number: 38_05

Ocean, Township of

Describing the Action

Action Name:	Create a Detention Pond for Whalepond Brook
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other/NA
Action Description:	An area needs to be created that is large enough to hold stormwater after a heavy storm and slowly release back into the proper detention system.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm
Goals:	2, 3, 5, 6
Risk Reduction:	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.
Technical:	Based on feasibility studies done on other waterways in the Township, this is technically feasible.
Political:	Local support by Congressman, Senates along with local government.
Legal:	The proposed location of the detention pond is on county-owned property.
Environmental:	The detention pond would create an environmental benefit for wildlife, plants and the natural resources.
Social:	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.
Administrative Capability:	The County will maintain this area.
Local Champion:	The residents that live along the Whalepond Brook, Emergency Services
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$3,000,000.00
Priority:	High
Local Planning Mechanism:	Town officials from Ocean, West Long Branch and Eatontown, OT Township Manager, DPW, Engineer, county officials
Responsible Party:	Monmouth County officials, OT Township Manager, DPW, and Engineer
Likely Funding Source(s):	Municipal budget
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the State said to create a plan to implement stormwater management and mitigation solutions at Welts Park first, since flooding at Whalepond Brook & Poplar Brook is a direct cause of Welts Park.

Monmouth County Mitigation Action Worksheets

Community Action Number: 38_06

Ocean, Township of

Describing the Action

Action Name:	Purchase and Install Generators for Other Critical Facilities
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Generators
Action Description:	Acquisition of emergency generators for critical facilities, including the gym, high school, recreation center, and elementary school.

Evaluating the Action

Hazard(s) Addressed:	Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm
Goals:	3, 7
Risk Reduction:	Emergency operations used in major storm events for police communication, OEM, Public Works, and sheltering do not have an adequate emergency generators for power.
Technical:	Technically feasible.
Political:	Political actions present in support of effort.
Legal:	No legal issues; agreements in place for building use.
Environmental:	None anticipated; generators would be natural gas units; locations of generators would not impact area.
Social:	No social impact; locations of generators would not impact area.
Administrative Capability:	Engineering
Local Champion:	Township Manager, OEM, School administrators, Board of Education and staff

Other Community Objectives:

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate:	\$150,000.00
Priority:	Low
Local Planning Mechanism:	Township Manager, DPW, Engineer, school maintenance and OEM
Responsible Party:	Township Manager, School administration, DPW, and Engineer
Likely Funding Source(s):	FEMA HMA
Timeline:	1 year
Action Status:	Ongoing
Notes:	The Township was awarded HMGP of \$121,397 for Generators for Shelter/Reception Centers

Monmouth County Mitigation Action Worksheets

Community Action Number: 38_07

Ocean, Township of

Describing the Action

Action Name:	Remove Sediment and Tree Debris Along the Arm of Deal Lake
Action Category:	Maintenance/Response/Recovery
Action Type:	Natural Systems Protection
HMA Eligible Activity:	Miscellaneous/Other/NA
Action Description:	Remove sediment and tree debris to create a clear channel for stormwater entering Deal Lake.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm
Goals:	3, 5, 6
Risk Reduction:	Deal Lake (east of Monmouth Road) had several fallen trees as a result from Superstorm Sandy and because of that, downed trees and sediment must be removed in order to create a clear channel for stormwater entering Deal Lake.
Technical:	Technically feasible.
Political:	Political actions present in support of effort.
Legal:	Action may require NJDEP permits to implement.
Environmental:	No adverse environmental impact anticipated.
Social:	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.
Administrative Capability:	Township agencies can oversee the removal and maintenance
Local Champion:	Township Manager, Engineer, OEM, Deal Lake Commission and DPW
Other Community Objectives:	N/A
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$5,000,000.00
Priority:	Low
Local Planning Mechanism:	Local officials, County and State agencies
Responsible Party:	Township Manager, DPW, NJDEP, Deal Lake Commission and Engineer
Likely Funding Source(s):	Municipal budget
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; Township trying to get property owner with the detention basin located on their property to sell to the Township.

Monmouth County Mitigation Action Worksheets

Community Action Number: 38_08

Ocean, Township of

Describing the Action

Action Name:	Redesign the Existing Weir to Increase Storm Attenuation Capacity at the Colonial Terrace Arm of Deal Lake
Action Category:	Mitigation - Continuity of Functional Use
Action Type:	Natural Systems Protection
HMA Eligible Activity:	Mitigation Reconstruction
Action Description:	Redesign existing weir to increase storm attenuation capacity of the Colonial Terrace Arm of Deal Lake (west of Wickapecko Ave).

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm
Goals:	2, 3, 5, 6
Risk Reduction:	Flooding, culvert sedimentation, and lake infilling reduce the storm attenuation capacity of the Colonial Terrace Arm of Deal Lake (west of Wickapecko Ave).
Technical:	Mitigation action highly technically feasible.
Political:	There is both political support and political will to support project.
Legal:	Action will require NJDEP permits to implement.
Environmental:	The project will benefit the environment. Permits will be needed from the NJDEP and Freehold District SCD.
Social:	The project has no negative social consequences.
Administrative Capability:	Outside assistance will be needed to implement the project. Maintenance could be conducted by the Township or by sub-contractors.
Local Champion:	Deal Lake Commission
Other Community Objectives:	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.
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$220,000.00
Priority:	
Local Planning Mechanism:	Local officials, County and State agencies
Responsible Party:	Township Manager, DPW, NJDEP, Deal Lake Commission and Engineer
Likely Funding Source(s):	NFWF grant application for planning/design submitted by DLC, may be possible to secure 319 grant for implementati
Timeline:	
Action Status:	Withdrawn
Notes:	Withdrawn action; Township had the funds but the private property owner backed out of the project and the Township cannot proceed without the property owner's consent.

Monmouth County Mitigation Action Worksheets

Community Action Number: 38_09

Ocean, Township of

Describing the Action

Action Name:	Reconstruct Wetlands and Flood Attenuation Basins around Harvey Brook; Stabilize Stream Banks
Action Category:	Mitigation - Continuity of Functional Use
Action Type:	Natural Systems Protection
HMA Eligible Activity:	Floodplain and Stream Restoration
Action Description:	Multi-phase project involving the construction of a regional wetland, flood attenuation basins, stabilization of stream bank, and coordinate with private property owner replacement of dam (new to this action).

Evaluating the Action

Hazard(s) Addressed:	Dam Failure, Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm
Goals:	2, 3, 5, 6
Risk Reduction:	Flood related damages to properties and infrastructure (including Monmouth Road) around the Harvey Brook are due to stream bank erosion, infilling, culvert sedimentation, and lake infilling.
Technical:	Mitigation action highly technically feasible.
Political:	There is both political support and political will to support project.
Legal:	Need to coordinate with private property owner on dam location; will require NJDEP permits to implement all aspects of this project.
Environmental:	The project will benefit the environment. Permits will be needed from the NJDEP and Freehold District SCD.
Social:	The project has no negative social consequences.
Administrative Capability:	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. Need to coordinate with the County.
Local Champion:	Deal Lake Commission
Other Community Objectives:	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.
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$2,250,000.00
Priority:	Medium
Local Planning Mechanism:	Local officials, County and State agencies
Responsible Party:	Township Manager, DPW, NJDEP, Deal Lake Commission and Engineer, Monmouth County
Likely Funding Source(s):	NJDEP Bureau of Dam Safety and Flood Control, EPA, National Fish and Wildlife Foundation (NFWF), NOAA, New Jersey
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; there needs to be an area before the dam for water to pool. Township would like to also replace the existing dam.

Monmouth County Mitigation Action Worksheets

Community Action Number: 38_10

Ocean, Township of

Describing the Action

Action Name:	Redesign the Existing Weir to Increase Storm Attenuation Capacity at Fireman Pond
Action Category:	Mitigation - Continuity of Functional Use
Action Type:	Natural Systems Protection
HMA Eligible Activity:	Mitigation Reconstruction
Action Description:	Retrofit of existing weir so pond can function as a regional flood attenuation basin. Install MTD in road to control pollutant loading to lake.

Evaluating the Action

Hazard(s) Addressed:	Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm
Goals:	2, 3, 5, 6
Risk Reduction:	There are flood-related damages to properties and infrastructure adjacent to Grasmere Ave. and Monmouth Rd. due to stream bank erosion and infilling, culvert sedimentation, and lake infilling.
Technical:	Mitigation action highly technically feasible.
Political:	There is both political support and political will to support project.
Legal:	Action will require NJDEP permits to implement.
Environmental:	The project will benefit the environment. Permits will be needed from the NJDEP and Freehold District SCD.
Social:	The project has no negative social consequences.
Administrative Capability:	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.
Local Champion:	Deal Lake Commission
Other Community Objectives:	Consistent with past efforts of the Township and Deal Lake Commission.
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$400,000.00
Priority:	High
Local Planning Mechanism:	Local officials, County and State agencies.
Responsible Party:	Township Manager, DPW, NJDEP, Deal Lake Commission and Engineer
Likely Funding Source(s):	NFWF, FEMA HMA
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; in the process of soil testing now for sediments depths. NFWF grant application for planning/design submitted by DLC, may be possible to secure 319 grant for implementation, FEMA HMA

Monmouth County Mitigation Action Worksheets

Community Action Number: 38_11

Ocean, Township of

Describing the Action

Action Name:	Replace Existing Weir and Dredge and Reconfigure Existing Impoundment at Lollipop Pond
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Localized Flood Risk Reduction Projects
Action Description:	Replace existing weir, dredge, and reconfigure existing impoundment west of Chestnut Ave construct regional created wetland flood attenuation basin.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm
Goals:	2, 3, 5, 6
Risk Reduction:	Sediment and particulate pollutant loading to Deal Lake are causing flood-related damages to properties and infrastructure located between Chestnut Ave and Wickapecko Ave.
Technical:	Mitigation action highly technically feasible
Political:	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.
Legal:	NJDEP and Freehold District SCD permits needed.
Environmental:	Benefits the environment and the lake.
Social:	The project has no negative social consequences.
Administrative Capability:	Outside help needed to implement project. Maintenance of the wetland basin could be conducted by Township or contractors working for Township.
Local Champion:	Deal Lake Commission
Other Community Objectives:	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.
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$1,000,000.00
Priority:	High
Local Planning Mechanism:	Local officials, County and State agencies
Responsible Party:	Township Manager, DPW, NJDEP, Deal Lake Commission and Engineer
Likely Funding Source(s):	NFWF grant application for planning/design submitted by DLC, may be possible to secure 319 grant
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the weir must be repaired in addition to mitigating Lollipop Pond, Increasing cost estimate to \$1M.

Monmouth County Mitigation Action Worksheets

Community Action Number: 38_12

Ocean, Township of

Describing the Action

Action Name:	Enlarge Culverts under Roadway and Railroad (Intersection of New Jersey Transit and Poplar Brook)
Action Category:	Mitigation - Continuity of Functional Use
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Localized Flood Risk Reduction Projects
Action Description:	An area needs to be created large enough to hold stormwater runoff during and after a severe storm and then the stormwater be released at a slower pace not to cause any flooding.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Winter Storm
Goals:	2, 3, 5, 6
Risk Reduction:	Heavy rainfall causes flooding on roadways and onto private property partially due to restrictions with the culverts under the two roadways and one rain crossing that lead into Deal Borough.
Technical:	Technically feasible.
Political:	Support has been dedicated by Congressman, Senates along with local government.
Legal:	Must work with New Jersey Transit, as they own the land under the railroad, and possibly DEP.
Environmental:	No adverse environmental impact anticipated; will improve stormwater runoff.
Social:	No negative social impact; will improve the neighborhood without relocating anyone and will improve traffic flow in the area landscaping.
Administrative Capability:	The township will maintain this area
Local Champion:	Residents that live along Poplar Brook, governing body, motorists, Emergency Services
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$4,000,000.00
Priority:	Low
Local Planning Mechanism:	Township Manager, DPW, Engineer, State DEP, NJ Transit, County Roads/Bridge Depts. and OEM
Responsible Party:	Township Manager, DPW, County Roads/Bridge Depts. and Engineer
Likely Funding Source(s):	Municipal budget, FEMA HMA
Timeline:	3 years
Action Status:	Ongoing
Notes:	Ongoing 2015 action; detention pond located on a Repetitive Loss property and Township is considering purchasing this property (near Joanna Ct.) for the pond however New Jersey Transit rejected permission to work under the railroad. An outfall valve and bulkhead along the Poplar Brook was awarded HMGP funds but the culverts under NJ Transit still need enlarged.

Monmouth County Mitigation Action Worksheets

Community Action Number: 38_13

Ocean, Township of

Describing the Action

Action Name:	Create a Detention Pond near Joe Palaia Park
Action Category:	Mitigation - Continuity of Functional Use
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other/NA
Action Description:	An area needs to be created large enough to hold stormwater runoff during and after a severe storm and then the stormwater be released at a slower pace not to cause any flooding.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm
Goals:	2, 3, 5, 6
Risk Reduction:	Downstream, the side of the culverts under roadways and railroad cannot handle heavy stormwater. Therefore, a detention pond upstream will mitigate this downstream flooding.
Technical:	Feasibility studies and plans were already created by the Army Corp of Engineers stating that this is a technically feasible.
Political:	Support has been dedicated by Congressman, Senates along with local government.
Legal:	The detention pond is proposed on township-owned property.
Environmental:	The detention pond would create an environment that would benefit wildlife, plants, and the natural resources and promote stream growth.
Social:	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.
Administrative Capability:	The Township has the capability to maintain this area.
Local Champion:	The residents that live along Poplar Brook, the governing body, motorists, Emergency Services.
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$5,000,000.00
Priority:	Low
Local Planning Mechanism:	Township Manager, DPW, Engineer, State DEP and OEM
Responsible Party:	Township Manager, DPW and Engineer
Likely Funding Source(s):	Municipal budget
Timeline:	3 years
Action Status:	Ongoing
Notes:	Ongoing 2015 project; no progress with the detention pond has occurred however the Township is still interested in creating an upstream detention pond.

Monmouth County Mitigation Action Worksheets

Community Action Number: 38_14

Ocean, Township of

Describing the Action

Action Name:	Construct a Flood Wall along Poplar Brook
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Localized Flood Risk Reduction Projects
Action Description:	Build a flood wall along the rear properties of the houses on Brookside Ave. along the banks of the Poplar Brook.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm
Goals:	2, 3, 5, 6
Risk Reduction:	Poplar Brook floods up to 43 homes along Brookside Ave and the road itself, an evacuation route, all located within the SFHA. 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 its own level, thereby flooding streets, low lying areas, into the living areas of several homes on Brookside Ave. This action would be mitigating RL properties and protecting the evacuation route for the coastal communities driving through Ocean Township.
Technical:	Technically feasible.
Political:	Political actions present in support of effort.
Legal:	Township is working with property owners on selling their property, especially since a lot of the properties are Repetitive Loss Properties.
Environmental:	Positively impacts the environment by increasing the permeable surface for each homeowner property.
Social:	Does not adversely affect any particular social group. Perceived by the public to be a good thing because of repetitive nature of flooding in the project area.
Administrative Capability:	Engineering
Local Champion:	Township Manager, OEM, DPW, Police, elected officials
Other Community Objectives:	
STAPLEE Evaluation:	14

Implementing the Action

Cost Estimate:	\$1,882,772.00
Priority:	High
Local Planning Mechanism:	Township Manager, DPW, Engineer and OEM
Responsible Party:	Township Manager, Police, DPW, Green Acres, County Open Space office and Engineer
Likely Funding Source(s):	FEMA HMA
Timeline:	2 years
Action Status:	Ongoing
Notes:	Ongoing 2015 action; Township has bought half the properties needed on Brookside Ave (see Community Action# 38_01) however the CBA will be below 1 because half of the houses are gone.

Monmouth County Mitigation Action Worksheets

Community Action Number: 38_15

Ocean, Township of

Describing the Action

Action Name:	Enlarge Culverts under Roadway and Railroad (Whalepond Brook)
Action Category:	Mitigation - Continuity of Functional Use
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other/NA
Action Description:	An area needs to be created large enough to hold stormwater runoff during and after a severe storm and then the stormwater be released at a slower pace not to cause any flooding.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm
Goals:	2, 3, 5, 6
Risk Reduction:	Heavy rainfall causes flooding on roadways and onto private property partially due to restrictions with the culverts under the two roadways and one rain crossing that lead into Deal Borough.
Technical:	Technically feasible.
Political:	Support has been dedicated by Congressman, Senates along with local government.
Legal:	Must work with New Jersey Transit, as they own the land under the railroad, and possibly DEP.
Environmental:	The detention pond would create an environment that would benefit wildlife, plants, and the natural resources and promote stream growth.
Social:	No negative social impact. Will improve the neighborhood without relocating anyone and will improve traffic flow in the area landscaping.
Administrative Capability:	The Township has the capability to maintain this area.
Local Champion:	Residents along Whalepond Brook, Emergency Services
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$4,000,000.00
Priority:	Low
Local Planning Mechanism:	Township Manager, DPW, Engineer, State DEP, NJ Transit, County Roads/Bridge Depts. and OEM
Responsible Party:	Township Manager, DPW, County Roads/Bridge Depts. and Engineer
Likely Funding Source(s):	Municipal budget
Timeline:	3 years
Action Status:	Ongoing
Notes:	Ongoing 2015 action; downstream coordination is difficult, need to coordinate w/ Eatontown, W. Long Branch, Long Branch

Monmouth County Mitigation Action Worksheets

Community Action Number: 38_16

Ocean, Township of

Describing the Action

Action Name:	Purchase Joanna Ct. Property for Detention Pond
Action Category:	Mitigation - Risk Reduction
Action Type:	Natural Systems Protection
HMA Eligible Activity:	Property Acquisition and Structure Demolition
Action Description:	Acquire Repetitive Loss Property, demolish the property, and create detention pond to alleviate flooding along Poplar Brook.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm
Goals:	2, 3, 5, 6
Risk Reduction:	Poplar Brook floods due to undersized culverts under roadways and train crossing (Community Action #38_12). A detention pond upstream will hold stormwater after heavy rain events and slowly release it back into the brook to reducing the risk of flood.
Technical:	Technically feasible.
Political:	Politically acceptable as acquisition will reduce future risk of flooding.
Legal:	Township must purchase property from willing property owner.
Environmental:	Positively impacts the environment by removing the home from the floodplain and increasing the permeable surface and restoring the natural floodplain.
Social:	May adversely impact neighbors of home that will be acquired; demolishing homes can change the character of neighborhoods as well as impact real estate values of surrounding homes.
Administrative Capability:	Township has sufficient capacity and experience to administer this action
Local Champion:	OEM, Engineering
Other Community Objectives:	
STAPLEE Evaluation:	10

Implementing the Action

Cost Estimate:	\$700,000.00
Priority:	High
Local Planning Mechanism:	Hazard Mitigation Plan
Responsible Party:	Township
Likely Funding Source(s):	FEMA HMA
Timeline:	2 years
Action Status:	New
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 38_17

Ocean, Township of

Describing the Action

Action Name:	Target Harden Municipal Complex and Schools by Installing Surveillance Cameras, Panic Buttons, Metal Detectors, and/or Bulletproof Glass
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	The Municipal Complex and Township schools should be more secure from the public. The Municipal Complex could use panic buttons, bulletproof glass for staff that interact with the public daily, a new secure office layout, and metal detectors. The school could benefit from a surveillance system.

Evaluating the Action

Hazard(s) Addressed:	Terrorism
Goals:	1, 2, 3, 4, 7
Risk Reduction:	Outside the Police Department, there is no protection against a terrorist attack. The Municipal Complex is open to the public and is vulnerable to a terrorist attack. Schools are also vulnerable to an attack.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected.
Legal:	No legal issues are anticipated, as all buildings to be target hardened are Township-owned.
Environmental:	No adverse environmental impact anticipated.
Social:	Does not adversely affect any particular social group. Perceived by the public to be a good thing because it reduces risk for the public when attending these Township buildings.
Administrative Capability:	Township has sufficient capacity and experience to administer this action.
Local Champion:	Police, OEM
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	Low
Local Planning Mechanism:	Hazard Mitigation Plan
Responsible Party:	Township Council
Likely Funding Source(s):	Homeland Security grants
Timeline:	2 years
Action Status:	New
Notes:	

Name: Michael Muscillo

Title: Township Manager

Jurisdiction: Ocean Township

Organization:

Local Mitigation Capabilities are existing authorities, policies, programs, and resources that reduce hazard impacts or that could be used to implement hazard mitigation activities. Please complete the tables and questions in the worksheet as completely as possible.

Planning & Regulatory

Planning and Regulatory Capabilities are the plans, policies, codes, and ordinances that prevent and reduce the impacts of hazards. Please indicate which of the following your jurisdiction currently has in place.

Plan	Yes/No	<ul style="list-style-type: none">What is the date/year of the plan?Does the plan address hazards?Does the plan identify projects to include in the mitigation strategy?Can the plan be used to implement mitigation actions?
Comprehensive/Master Plan	Yes	2014 Re-Examination
Capital Improvements Plan	Yes	<ul style="list-style-type: none">Yearly road reconstructionHeadwall reconstructions
Economic Development Plan	Yes	
Local Emergency Operations Plan	Yes	
Continuity of Operations Plan		
Post-Disaster Recovery Plan	Yes	
Transportation Plan		
Stormwater Management Plan	Yes	Revised 2009
Community Wildfire Protection Plan		
Other special plans (e.g., brownfields redevelopment, disaster recovery, coastal zone management, climate change adaptation)	Yes	<ul style="list-style-type: none">Getting to Resilience (2017)NJ FRAMESStrategic Recovery Planning Report
Building Code, Permitting, and Inspections	Yes/No	Are codes adequately enforced?
Building Code	Yes	Version/Year:

Building Code Effectiveness Grading Schedule (BCEGS) Score		Score:
Fire Department ISO rating		Rating:
Site Plan Review Requirements	Yes	
Land Use Planning and Ordinances	Yes/No	Is the ordinance an effective measure for reducing hazard impacts? Is the ordinance adequately administered and enforced?
Zoning Ordinance	Yes	yes
Subdivision Ordinance	Yes	yes
Floodplain Ordinance		
Natural hazard ordinance (stormwater, steep slope, wildfire)	Yes	Fire prevention
Flood Insurance Rate Maps		
Acquisition of Land for Open Space and Public Recreation Uses		
Post-Disaster Recovery Ordinance	No	
Real Estate Disclose Ordinance	Yes	
Other (ie. Special Purposes Ordinance)	Yes	<ul style="list-style-type: none"> • Special Purposes Ordinance • Growth Management Ordinance • Surface Coverage Ordinance (reduce impervious surface, patios, pools) • Engineering Service
How can the above capabilities be expanded and improved to reduce risk?		
Looking to update and change ordinances		

Administrative & Technical

Identify whether your community has the following administrative and technical capabilities. These include staff and their skills and tools that can be used for mitigation planning and to implement specific mitigation actions. For smaller jurisdictions without local staff resources, if there are public resources at the next higher-level government that can provide technical assistance, indicate so in your comments.

Administration	Yes/No	Describe capability Is coordination effective?
Planning Commission		
Mitigation Planning Committee		
Maintenance Programs to Reduce Risk (e.g., tree trimming, clearing drainage systems)	Yes	<ul style="list-style-type: none"> • Storm drainage program • Tree trimming program
Mutual Aid Agreements	Yes	County Emergency Services
Staff	Yes/No FT/PT	Is the staff full time or part time? Is staffing adequate to enforce regulations? Is the staff trained on hazards and mitigation? Is coordination between agencies and staff effective?
Chief Building Official	yes	

Floodplain Administrator	Yes	
Emergency Manager	Yes	
Community Planner	Yes	
Civil Engineer	Yes	
Surveyor	Yes	
GIS Coordinator	Yes	
Scientists familiar with the hazards of the community	No	
Other		Capability between police and construction office panic button
Technical	Yes/No	Describe capability Has capability been used to access/mitigate risk in the past?
Warning Systems/Services (Reverse 911, outdoor warning signals)	yes	yes
Hazard Data and Information		
Grant Writing	Yes	yes
Hazus Analysis	Yes	
Other		
How can the above capabilities be expanded and improved to reduce risk?		

Financial

Identify whether your jurisdiction has access to or is eligible to use the following funding resources for hazard mitigation.

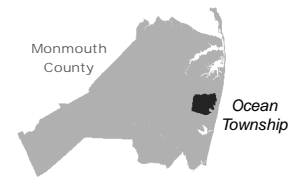
Funding Resource	Access / Eligibility (Yes/No)	Has the funding resource been used in the past and for what type of activities? Could the resource be used to fund future mitigation actions?
Capital Improvements Project Funding	Yes	roadway reconstruction, heavy equipment purchases, headwall improvements
Authority to Levy Taxes for Specific Purposes	No	
Fees for Water, Sewer, Gas, or Electric Services	Yes	sewer line upgrades and replacement
Impact Fees for New Development	Yes	
Stormwater Utility Fee		
Incur Debt Through Private Activities	No	
Community Development Block Grant	Yes	sidewalks, roadway, drainage improvements
Other Federal Funding Programs	No	
State Funding Programs	Yes	NJ Transportation Trust Fund Grants, Infrastructure Grants
Other (e.g., withhold spending in hazard-prone areas)	No	Incur Debt through General Obligation

How can these capabilities be expanded and improved to reduce risk?
Looking to try and obtain additional grants

Education and Outreach

Identify education and outreach programs and methods already in place that could be used to implement mitigation activities and communicate hazard-related information.

Program/Organization	Yes/No	Describe program/organization and how it relates to disaster resilience and mitigation. Could the program/organization help implement future mitigation activities?
Local Citizen Groups or Non-Profit Organizations Focused on Environmental Protection, Emergency Preparedness, Access and Functional Needs Populations, etc.		
Ongoing Public Education or Information Programs (e.g., responsible water use, fire safety, household preparedness, environmental education)		
Natural Disaster or Safety Related School Programs		
StormReady Certification		
Firewise Communities Certification		
Public-Private Partnership Initiatives Addressing Disaster Related Issues		
Other		
How can these capabilities be expanded and improved to reduce risk?		
Working towards a new classification in the CRS Program		

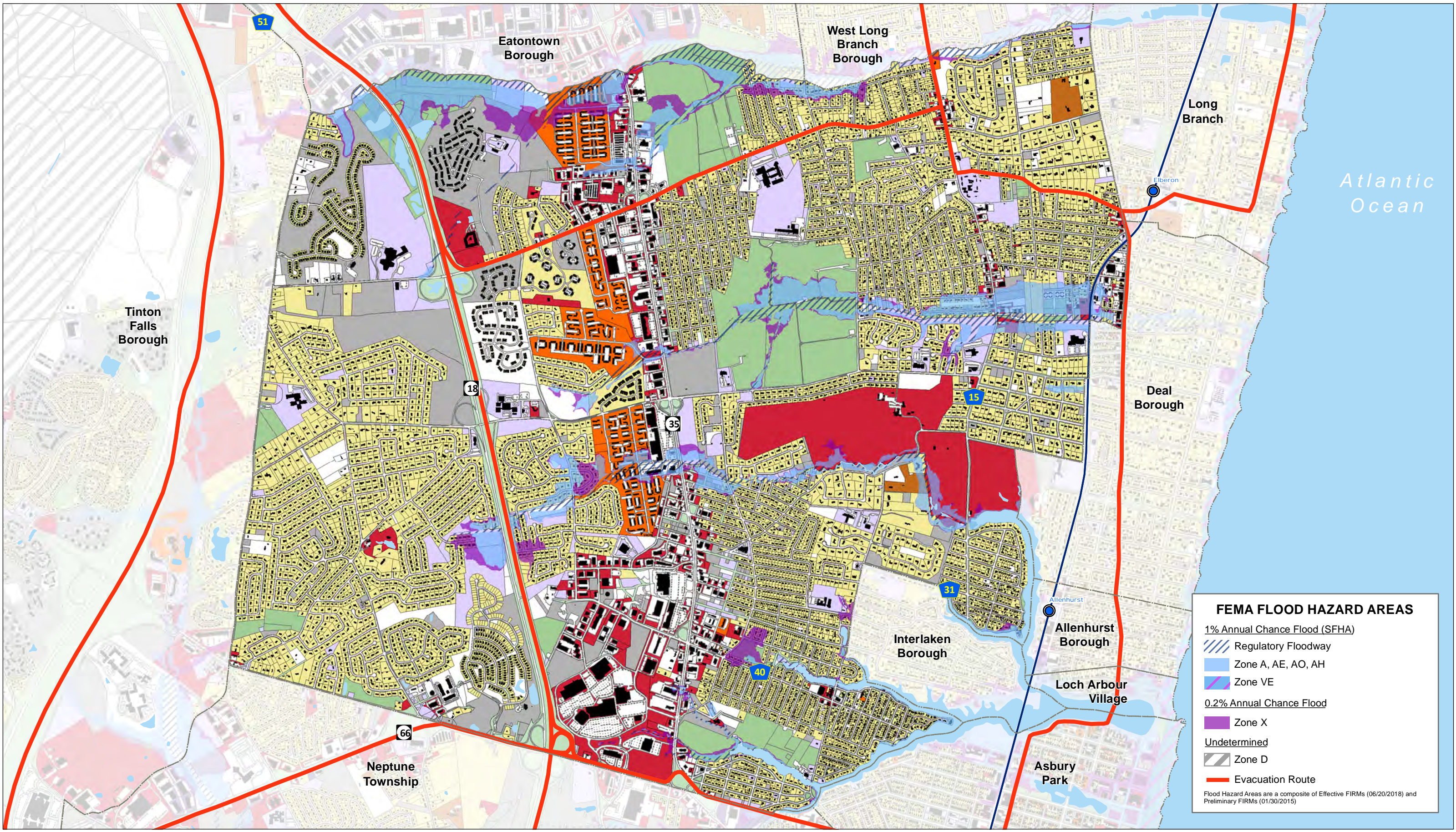


Parcel Classification

Industrial	Commercial	Apartment	Residential (four families or less)
Farm	Vacant	Civic/Public (Tax Exempt)	Unclassified
			Open Space

0 1,050 2,100 Feet

Source: 2014 Esri; Monmouth County; NJOIT-OGIS; NJGIN MODIV Parcel, FEMA
Projection: New Jersey State Plane, NAD 1983



FEMA FLOOD HAZARD AREAS

1% Annual Chance Flood (SFHA)

- Regulatory Floodway
- Zone A, AE, AO, AH
- Zone VE

0.2% Annual Chance Flood

- Zone X

Undetermined

- Zone D

Evacuation Route

Flood Hazard Areas are a composite of Effective FIRMs (06/20/2018) and Preliminary FIRMs (01/30/2015)

This map was developed using the 10-04-18 statewide composite of parcel data published by the NJOIT-OGIS. The State of New Jersey makes great effort to provide secure, accurate, and complete data and metadata. However, portions of the data and metadata may be incorrect or not current. Any errors or omissions should be reported for investigation to OGIS.



Parcel Classification

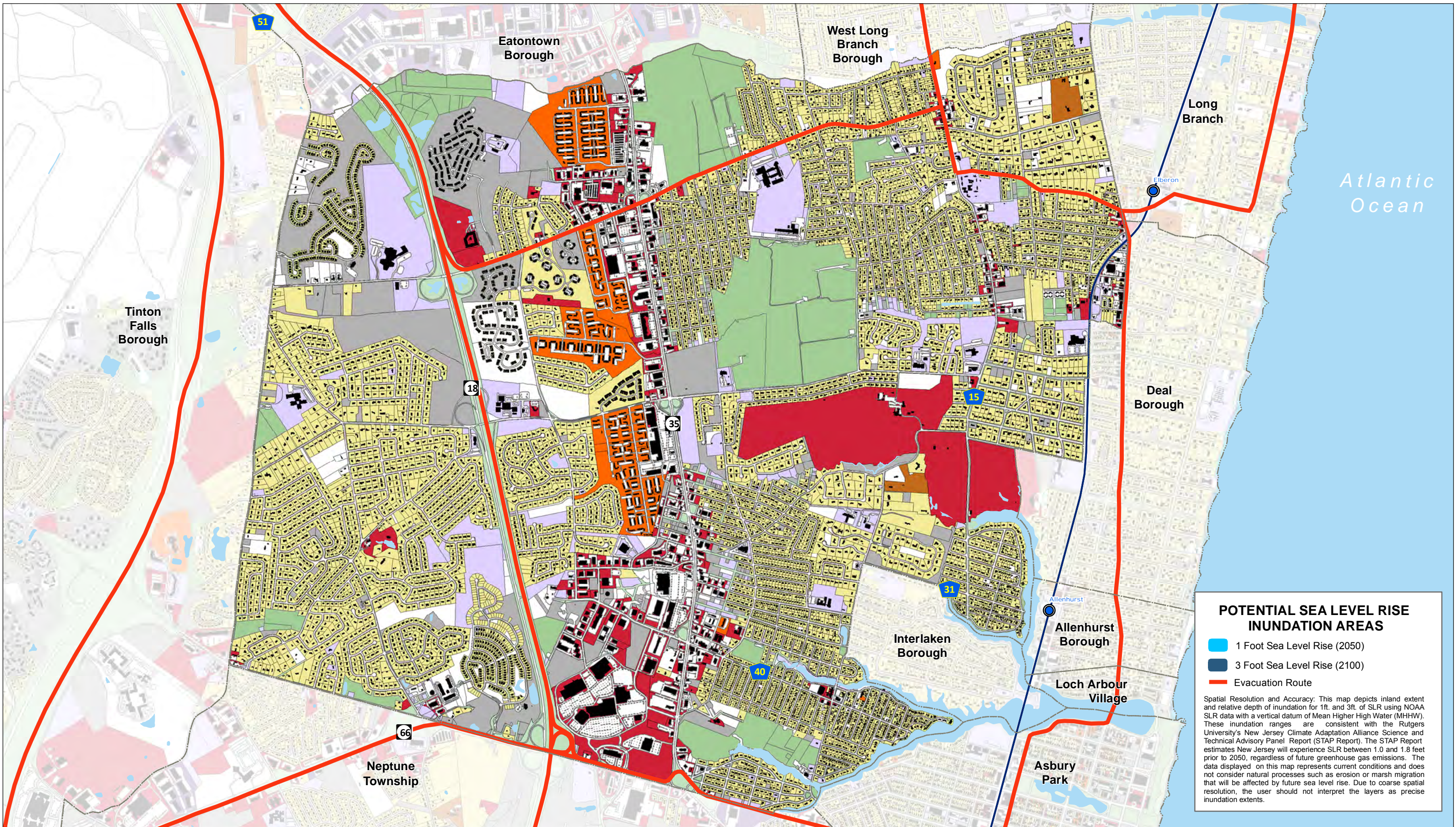
Industrial	Commercial	Apartment	Residential (four families or less)	
Farm	Vacant	Civic/Public (Tax Exempt)	Unclassified	Open Space

01,0502,100

Feet

Source: 2014 Esri; Monmouth County; NJOIT-OGIS; NJGIN MODIV Parcel, FEMA

Projection: New Jersey State Plane, NAD 1983



POTENTIAL SEA LEVEL RISE INUNDATION AREAS

1 Foot Sea Level Rise (2050)

3 Foot Sea Level Rise (2100)

Evacuation Route

Spatial Resolution and Accuracy: This map depicts inland extent and relative depth of inundation for 1ft. and 3ft. of SLR using NOAA SLR data with a vertical datum of Mean Higher High Water (MHHW). These inundation ranges are consistent with the Rutgers University's New Jersey Climate Adaptation Alliance Science and Technical Advisory Panel Report (STAP Report). The STAP Report estimates New Jersey will experience SLR between 1.0 and 1.8 feet prior to 2050, regardless of future greenhouse gas emissions. The data displayed on this map represents current conditions and does not consider natural processes such as erosion or marsh migration that will be affected by future sea level rise. Due to coarse spatial resolution, the user should not interpret the layers as precise inundation extents.

This map was developed using the 10-04-18 statewide composite of parcel data published by the NJOIT-OGIS. The State of New Jersey makes great effort to provide secure, accurate, and complete data and metadata. However, portions of the data and metadata may be incorrect or not current. Any errors or omissions should be reported for investigation to OGIS.



MEETING NOTES

Topic: Ocean- Monmouth County HMP Update Meeting

Date: June 18, 2019

Time: 11:00 AM- 12:00 PM

Location: 399 Monmouth Rd, Oakhurst, NJ

Attendees:

Greg	Blash	Township Engineer
Tom	Caruso	OEM Director
Thomas	Crochet	Director of Public Works
Ronald	Kirk	Director of Community Development
Mike	Muscillo	Township Manager
Michael	Sorrentino	Police Captain

Drafted by: Paige Kaspar

Introductions (Paige):

- Goals and Hazards
- What is Mitigation Hazard Planning?
- Funding Available
 - HMA
- Mitigation Strategies

2015 Mitigation Actions

- Community Action 38_01 Property Acquisition **ongoing**
 - Brookside Ave HUD/FEMA money to buy 10 properties that still need to be demolished
 - Still standing but waiting to be demolished
 - Other properties have been elevated but waiting on confirmation of which properties
- Community Action 38_02 Stream cleaning and some silt removal of Poplar Brook & Whalepond Brook **ongoing**
 - Permit issues resolved



- No timeline, but back on track
- Community Action 38_03 Rehabilitation of Dam on Roseld Ave **Withdraw**
 - Had the funding, however property owner backed out
 - Property owner is a golf course
 - Withdrawn action; the private property owner (golf course) backed out of the project and the Township cannot proceed without the property owner's consent.
- Community Action 38_04 Emergency Generators for Town Hall **Completed**
 - Moved old generator to gym (which is a Critical Facility)
- Community Action 38_05 Create a Detention Pond for Whalepond Brook **ongoing**
 - On county property, state said planning first, end solution
 - Welts Park → create plan implement mitigation → flooding causes Whalepond Brook & Poplar Brook
- Community Action 38_06 Acquisition of Emergency Generators for Critical Facilities **Ongoing**
 - Add gym, HS, and rec center generator
 - Add elementary generator
 - More school use could wayside Ocean Intermediary School
- Community Action 38_07 Removal of Debris - **Ongoing**
 - Nothing has been done
 - Trying to get property owner on detention basin on their property
- Community Action 38_08 Redesign and Construction of Existing Weir **Withdrawn**
 - Property owner changed mind
- Community Action 38_09 Regional wetland, flood attenuation basins, and stream stabilization **ongoing**
 - Harvey Brook Project
 - Before dam area to pool water
 - Coordination with county
- Community Action 38_10 Retrofit of Existing Weir **ongoing**
 - Fireman Pond Project
 - Soil testing now, sediments depths
 - Cost Estimate = \$400,000
- Community Action 38_11 Replace existing weir, dredge and reconfigure existing impoundment west of Chestnut Ave. **ongoing**
 - Lollipop Pond Project
 - Repair to Weir itself, still needs to be repaired
 - Cost Estimate = \$1 million
- Community Action 38_12 Enlarge culverts under roadways and train crossing (Poplar Brook) **ongoing**
 - Stormwater impoundments along Poplar Brook NJT Denied
 - Detention pond on RL property (Joanna Ct.)
- Community Action 38_13 Create a detention pond **ongoing**
 - Poplar Brook detention area in Joe Palaia Park



- Community Action 38_14 Construct a Flood Wall **ongoing**
 - Bought half the properties RL Brookside Ave (see CA 38_01) Cost/Benefit will be below 1 because half of the houses are gone, was below 1 before properties were bought
- Community Action 38_15 Enlarge Culverts under roadways (Whalepond Brook) **ongoing**
Downstream coordination is difficult, need to coordinate w/ Eatontown, W. Long Branch, Long Branch

2020 Mitigation Actions

- added to 9: Harvey Brook erosion
 - Brook needs to replace existing dam
 - Coordinate w/ private property owner
- 16 Purchase Joanna Ct. open space for detention pond
- 17 Target hardening municipal complex outside police department (as they are protected)
 - Panic buttons
 - Bullet proof
 - Reconstruct offices
 - Metal detectors I
 - Increase camera systems in schools

Successes

- Installed camera behind Wegmans for Traffic
- Osprey & deer population bad worked with county

The Municipal Complex and Township schools should be more secure from the public. The Municipal Complex could use panic buttons, bulletproof glass for staff that interact with the public daily, a new secure office layout, and metal detectors. The school could benefit from a surveillance system



Monmouth County
Multi-Jurisdictional Hazard Mitigation Plan Update



Michael Baker
INTERNATIONAL

Meeting: Ocean Twp. HMP

Date: 06-18-19

Initial	Last Name	First Name	Title	Organization	Email Address
	BLASH	Greg	Twp Eng		GBLASH@OCEANTWP.ORG
	Crochet	Thomas	Dir. of Public Works	Twp. of Ocean	tcrochet@oceanwp.org
	Kirk	Ronald	Director of Community Development	Ocean Twp	RKIRK@OCEANTWP.ORG
	Ashman	Brittany	Planner	MB	
	Sorrentino	Michael	Police Dept Capt.	OTPD	MSORRINTWO@OCEANTWP.ORG
	Cervuso	Tom	Dein Director	OT	tcervuso@oceanwp.org
	Muscillo	Mike	Twp. Manager	OT	mmuscillo@oceanwp.org

Appendix Vol I.39 Oceanport Borough

Please find below the following documents specific to this jurisdiction that have been included as part of the plan update process.

- Summary Sheet
- Mitigation Action Table
- Mitigation Action Worksheets
- Capability Assessment
- Flood Zone Map
- Sea Level Rise Vulnerability Map
- Meeting Material



NFIP Statistics

711 Policies In-force

956 Total Losses

\$61,316,665 Total Payments

58 Number of RL Properties

26 Number Mitigated
RL Properties

181 RL - Total Losses

\$11,995,243 RL - Total Paid

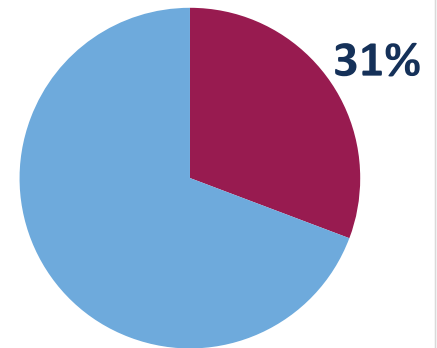


2 Number of SRL Properties

0 Number Mitigated SRL
Properties

10 SRL - Total Losses

\$299,089 SRL - Total Paid



Percent Land Area Within SFHA

11

Total Mitigation
Actions

0



Education and Awareness Programs

10



Structure and Infrastructure Projects

0



Local Plans and Regulations

1



Natural Systems Protection

Critical Facilities



8 Critical Facilities

1 Critical Infrastructure

53 Historic & Cultural Resources



0 SV Population At Risk (2017)

1,771 Population at Risk (2017)

Oceanport, Borough of

Monmouth County HMP Mitigation Action Summary

Community Action #	Action Name	Action Description	Action Category	Action Type	Hazard(s) Addressed	Priority	Responsible Party	Potential Funding Sources	Cost Estimate	Timeline	Action Status
39_01	Acquire, elevate, or relocate buildings and infrastructure in flood prone areas, with a focus on Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties	Mitigate 188 structures that had been flooded or are in danger of being flooded, specifically RL/SRL properties.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Council	FEMA HMA funding	\$49,000,000.00	1 year	Ongoing
39_02	Phase 1 of Borough Hall Relocation Project: Acquire Land for a New Building.	Borough Hall (consisting of staff offices, library, PD, Council Hall) is located in a flood hazard area and was wiped out by Superstorm Sandy. This project will be to construct a new borough hall/building on a site located outside of the floodplain, demolish the existing now-abandoned building, and return to open space.		Structure and Infrastructure Project	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge		Council	FEMA, Grants, bond, mitigation fund	\$1,000,000.00		Completed
39_03	Phase 2 of Borough Hall Relocation Project: Construct a New Building	Construct Borough Hall out of a flood zone. Five properties were considered by the Borough for relocation.		Structure and Infrastructure Project	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge		Council	FEMA funding, Grants, bond, mitigation funds	\$12,000,000.00		Completed
39_04	Purchase and Instill Emergency Generators for Critical Facilities	Two emergency generators at both schools in Borough used to supported emergency operations during severe weather events.	Maintenance/Response/Recovery	Structure and Infrastructure Project	All Hazards	Low	Council, BOE, and Engineering	FEMA funding	\$450,000.00	1 year	Ongoing
39_05	Examine Existing Stormwater Drainage System (Phase 1 of 2)	Examination of present system to determine improvements needed. Video and actual physical examination of system to seek out problems and needed improvements.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	Medium	Engineering	FEMA HMA, municipal budget	\$150,000.00	1 year	Ongoing
39_06	Implement Improvements to Stormwater Drainage System (Phase 2 of 2)	Repairs and improvements to storm drain system to include backflow preventers on 44 outfalls.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	Medium	Engineering	FEMA HMA, municipal budget, State transportation fund	\$950,000.00	1 year	Ongoing
39_07	Protect and Restore Turtle Mill Brook	Remove Snagging and Debris from the floodway of Turtle Mill Brook.	Maintenance/Response/Recovery	Natural Systems Protection	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	Medium	Engineering	Municipal budget	\$1,000,000.00	1 year	Ongoing
39_08	Elevate and Improve Flood-prone Roadways	Elevation of roadways, and grading and curbing of flood-prone streets.	Mitigation - Continuity of Functional Use	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	Low	Engineering	FEMA HMA, State transportation fund, county budget, municipal budget	\$3,000,000.00	5 + years	Ongoing

Oceanport, Borough of

Monmouth County HMP Mitigation Action Summary

Community Action #	Action Name	Action Description	Action Category	Action Type	Hazard(s) Addressed	Priority	Responsible Party	Potential Funding Sources	Cost Estimate	Timeline	Action Status
39_09	Coordinate with Army Corp on Installing a Moveable Flood Gate	The mouth of the Shrewsbury River needs a physical barrier with a movable flood gate to prevent water from coming into the Bay.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Army Corp of Engineers	Army Corp of Engineers	\$500,000,000.00	5 + years	Ongoing
39_10	Create Easier Access to the Emergency Watercraft Launch	Improved access to Shrewsbury River at Blackberry Bay Park Boat ramp for emergency rescue craft from various agencies.		Structure and Infrastructure Project	All Hazards		Engineering	FEMA funding, Grants, bond, mitigation funds, State transportation	\$525,000.00		Completed
39_11	Construct Gates on Bridges to Prevent Residents from Re-Entering Borough Post Storm	The Borough needs gates on four bridges (Branchport Ave. Bridge, Gooseneck Bridge, Pleasure Bay Bridge and Oceanport Ave. Bridge by Parkers Creek (Border with Little Silver) to restrict people from re-entering the Borough when it's unsafe after a major flooding or hurricane event. This will require the cooperation of Monmouth County since each bridge is a county bridge.	Maintenance/Response/Recovery	Structure and Infrastructure Project	All Hazards	Low	Monmouth County and Borough	Municipal budget	\$400,000.00	1 year	New

Monmouth County Mitigation Action Worksheets

Community Action Number: 39_01

Oceanport, Borough of

Describing the Action

Action Name:	Acquire, elevate, or relocate buildings and infrastructure in flood prone areas, with a focus on Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Structure Elevation
Action Description:	Mitigate 188 structures that had been flooded or are in danger of being flooded, specifically RL/SRL properties.

Evaluating the Action

Hazard(s) Addressed:	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	1, 2, 3, 5, 6
Risk Reduction:	Due to its location on a peninsula, Oceanport is highly susceptible to storm surge. Oceanport was severely impacted during Hurricane Irene and Superstorm 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 Superstorm 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.
Technical:	Technically feasible.
Political:	Political actions present in support of effort.
Legal:	Legal issues may be present for individuals homes, which should be addressed prior to start.
Environmental:	Issues would be addressed in plan review prior to approval.
Social:	Social impact would be a better or improved living condition.
Administrative Capability:	Project management would be needed.
Local Champion:	Council and OEM
Other Community Objectives:	Flood plain management
STAPLEE Evaluation:	10

Implementing the Action

Cost Estimate:	\$49,000,000.00
Priority:	High
Local Planning Mechanism:	Committee consisting of FEMA, State, Local officials
Responsible Party:	Council
Likely Funding Source(s):	FEMA HMA funding
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; 14 properties have been mitigated, 29 more houses need to be elevated. 8 private structures have been elevated through HMGP funding (\$1,664,610).

Monmouth County Mitigation Action Worksheets

Community Action Number: 39_02

Oceanport, Borough of

Describing the Action

Action Name:	Phase 1 of Borough Hall Relocation Project: Acquire Land for a New Building.
Action Category:	
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Borough Hall (consisting of staff offices, library, PD, Council Hall) is located in a flood hazard area and was wiped out by Superstorm Sandy. This project will be to construct a new borough hall/building on a site located outside of the floodplain, demolish the existing now-abandoned building, and return to open space.

Evaluating the Action

Hazard(s) Addressed:	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 7
Risk Reduction:	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 Hurricane Irene and Superstorm Sandy. Most of Oceanport lies within mapped storm surge hazard areas. Flooding is primarily from Parkers Creek, Oceanport Creek, Blackberry Bay, and Branchport Creek (Shrewsbury River tributaries).
Technical:	Technically feasible.
Political:	Political actions present in support of effort and actively looking for property; public support is not on issue at this time, building soon to be condemned.
Legal:	No legal issues.
Environmental:	Locations under consideration will not present environmental issues.
Social:	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.
Administrative Capability:	Yes, present staff could handle acquisition.
Local Champion:	Council and OEM
Other Community Objectives:	Support a Capital Improvement #2, possible economic development if plaza obtained.
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$1,000,000.00
Priority:	
Local Planning Mechanism:	Committee consisting of FEMA, State, Local official
Responsible Party:	Council
Likely Funding Source(s):	FEMA, Grants, bond, mitigation fund
Timeline:	
Action Status:	Completed
Notes:	Land purchased at Fort Monmouth. The Borough was awarded \$6.1M of FEMA Funding 406 Public Assistance for repairs to the old Borough Hall post-Sandy.

Monmouth County Mitigation Action Worksheets

Community Action Number: 39_03

Oceanport, Borough of

Describing the Action

Action Name:	Phase 2 of Borough Hall Relocation Project: Construct a New Building
Action Category:	
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Construct Borough Hall out of a flood zone. Five properties were considered by the Borough for relocation.

Evaluating the Action

Hazard(s) Addressed:	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 7
Risk Reduction:	Borough Hall is in an area susceptible to storm surge and was wiped out during Superstorm Sandy. Meetings of the Mayor and Council and Planning Board are still being held at an alternate location.
Technical:	Technically feasible; Yes
Political:	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.
Legal:	No legal issues.
Environmental:	Locations under consideration will not present environmental issues; building would meet present standards
Social:	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.
Administrative Capability:	Project management would be needed
Local Champion:	Council and OEM
Other Community Objectives:	Support of land acquisition Project 111, possible economic development if plaza obtained.
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$12,000,000.00
Priority:	
Local Planning Mechanism:	Committee consisting of FEMA, State, Local official
Responsible Party:	Council
Likely Funding Source(s):	FEMA funding, Grants, bond, mitigation funds
Timeline:	
Action Status:	Completed
Notes:	Renovating two buildings in Fort Monmouth for PD and Borough Hall.

Monmouth County Mitigation Action Worksheets

Community Action Number: 39_04

Oceanport, Borough of

Describing the Action

Action Name:	Purchase and Install Emergency Generators for Critical Facilities
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Generators
Action Description:	Two emergency generators at both schools in Borough used to supported emergency operations during severe weather events.

Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	1, 3, 6, 7
Risk Reduction:	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.
Technical:	Technically feasible.
Political:	Political actions present in support of effort.
Legal:	No legal issues; agreements in place for building use.
Environmental:	None anticipated; generators would be natural gas units; locations of generators and schools would not impact area.
Social:	No social impact; locations of generators and schools would not impact area.
Administrative Capability:	Engineering has sufficient capacity and experience to administer this action
Local Champion:	Council and OEM; School Board
Other Community Objectives:	Emergency Operations Plan; shelter
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$450,000.00
Priority:	Low
Local Planning Mechanism:	Local officials
Responsible Party:	Council, BOE, and Engineering
Likely Funding Source(s):	FEMA funding
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the grant that is still available for a diesel generator; electrical system is very complicated at school so the Borough moved the generator to two new buildings for the Police Department and Borough Hall. The Borough was awarded HMGP funding for portable generator for shelters (\$100,000).

Monmouth County Mitigation Action Worksheets

Community Action Number: 39_05

Oceanport, Borough of

Describing the Action

Action Name:	Examine Existing Stormwater Drainage System (Phase 1 of 2)
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Infrastructure Retrofit
Action Description:	Examination of present system to determine improvements needed. Video and actual physical examination of system to seek out problems and needed improvements.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	1, 2, 3, 5, 6, 7
Risk Reduction:	Stormwater infrastructure (particularly in the Port-au-Peck section) does not allow for efficient and effective drainage and flooding occurs as a result.
Technical:	Technically feasible.
Political:	Political actions presently in support of effort.
Legal:	No legal issues.
Environmental:	Locations under consideration will not present environmental issues.
Social:	No social impact, would actually improve the community.
Administrative Capability:	Project management would be needed.
Local Champion:	Council and Engineering
Other Community Objectives:	Floodplain Management
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$150,000.00
Priority:	Medium
Local Planning Mechanism:	Committee consisting Local officials and engineering
Responsible Party:	Engineering
Likely Funding Source(s):	FEMA HMA, municipal budget
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; some roadways have been repaved and added depressed curbing installed to allow better drainage.

Monmouth County Mitigation Action Worksheets

Community Action Number: 39_06

Oceanport, Borough of

Describing the Action

Action Name:	Implement Improvements to Stormwater Drainage System (Phase 2 of 2)
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Infrastructure Retrofit
Action Description:	Repairs and improvements to storm drain system to include backflow preventers on 44 outfalls.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	1, 2, 3, 5, 6, 7
Risk Reduction:	Stormwater infrastructure (particularly in the Port-au-Peck section) does not allow for efficient and effective drainage and flooding occurs as a result.
Technical:	Technically feasible.
Political:	Political actions presently in support of effort.
Legal:	No legal issues.
Environmental:	Locations under consideration will not present environmental issues.
Social:	No social impact, would actually improve the community.
Administrative Capability:	Project management would be needed.
Local Champion:	Council and Engineering
Other Community Objectives:	Floodplain Management
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$950,000.00
Priority:	Medium
Local Planning Mechanism:	Committee consisting Local officials and engineering
Responsible Party:	Engineering
Likely Funding Source(s):	FEMA HMA, municipal budget, State transportation fund
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; outfalls have been inspected and work to be done in four phases. There is money being set aside each year and grants to be applied for to complete this project.

Monmouth County Mitigation Action Worksheets

Community Action Number: 39_07

Oceanport, Borough of

Describing the Action

Action Name:	Protect and Restore Turtle Mill Brook
Action Category:	Maintenance/Response/Recovery
Action Type:	Natural Systems Protection
HMA Eligible Activity:	Miscellaneous/Other/NA
Action Description:	Remove Snagging and Debris from the floodway of Turtle Mill Brook.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 5, 6
Risk Reduction:	Debris and sediment accumulation on Turtle Mill Brook is believed to be impeding flood flows and causing flooding of roadways and adjacent properties.
Technical:	Technically feasible.
Political:	Political actions present in support of effort.
Legal:	This will take action on the part of Monmouth County, West Long Branch and Oceanport to mitigate the problem.
Environmental:	There are areas that will needed to be examined along the stream, but no major issues anticipated.
Social:	No social impact, most of this area is surrounded by commercial property and a few homes. A lot of vacant land borders the stream.
Administrative Capability:	Project management would be needed.
Local Champion:	Engineering
Other Community Objectives:	Hazard Mitigation Plan
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$1,000,000.00
Priority:	Medium
Local Planning Mechanism:	Local officials and County DPW; adjoining town on border with stream
Responsible Party:	Engineering
Likely Funding Source(s):	Municipal budget
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing mitigation action from 2015; Oceanport plans to coordinate with Monmouth County and West Long Branch.

Monmouth County Mitigation Action Worksheets

Community Action Number: 39_08

Oceanport, Borough of

Describing the Action

Action Name:	Elevate and Improve Flood-prone Roadways
Action Category:	Mitigation - Continuity of Functional Use
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Structure Elevation
Action Description:	Elevation of roadways, and grading and curbing of flood-prone streets.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	5, 7
Risk Reduction:	Roadway flooding occurs in certain areas due to issues with grading, roadway elevations themselves, and lack of back/low prevention.
Technical:	Technically feasible.
Political:	Political actions presently in support of effort.
Legal:	No legal issues.
Environmental:	Locations under consideration will not present environmental issues.
Social:	No social impact, would actually improve the community.
Administrative Capability:	Project management would be needed.
Local Champion:	Council and Engineering
Other Community Objectives:	floodplain management
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$3,000,000.00
Priority:	Low
Local Planning Mechanism:	Committee consisting Local officials and engineering
Responsible Party:	Engineering
Likely Funding Source(s):	FEMA HMA, State transportation fund, county budget, municipal budget
Timeline:	5 + years
Action Status:	Ongoing
Notes:	Ongoing action from 2015; some repaving work has occurred and including grading changes and adding depressed curbs for drainage.

Monmouth County Mitigation Action Worksheets

Community Action Number: 39_09

Oceanport, Borough of

Describing the Action

Action Name:	Coordinate with Army Corp on Installing a Moveable Flood Gate
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Localized Flood Risk Reduction Projects
Action Description:	The mouth of the Shrewsbury River needs a physical barrier with a movable flood gate to prevent water from coming into the Bay.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	1, 2, 4, 5, 6, 7
Risk Reduction:	Flooding occurs during extreme high tides, storm surge, covering property and roadways. This gate would protect residential property and infrastructure. The gate 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.
Technical:	Technically feasible at the Route 36 bridge.
Political:	Several government agencies (Army Corp, County, municipalities, DEP) would need to coordinate on this project.
Legal:	Significant legal issues, as the Shrewsbury River is both a state and federal channel.
Environmental:	Locations under consideration will need environmental review.
Social:	Does not adversely affect any particular social group.
Administrative Capability:	Project management would be needed.
Local Champion:	Council, Public, Engineering, NJ FRAMES,
Other Community Objectives:	Floodplain management with the towns of Sea Bright, Monmouth Beach, Long Branch, Little Silver, Fair Haven, Rumson, Red Bank, Highlands, and Middletown would be required.
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$500,000,000.00
Priority:	High
Local Planning Mechanism:	Committee consisting Federal/ State/ County/Local officials and engineering
Responsible Party:	Army Corp of Engineers
Likely Funding Source(s):	Army Corp of Engineers
Timeline:	5 + years
Action Status:	Ongoing
Notes:	Ongoing 2015 action; responsibility of Army Corp however the Borough strongly supports this project, as they believe this is the best mitigation action for Oceanport.

Monmouth County Mitigation Action Worksheets

Community Action Number: 39_10

Oceanport, Borough of

Describing the Action

Action Name:	Create Easier Access to the Emergency Watercraft Launch
Action Category:	
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Non-structural Retrofitting of Existing Buildings and Facilities
Action Description:	Improved access to Shrewsbury River at Blackberry Bay Park Boat ramp for emergency rescue craft from various agencies.

Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	1, 3, 5, 6, 7
Risk Reduction:	Reduced access to Shrewsbury River from ramp at Blackberry Bay Park due to repetitive storm damage over years; condition is causing damage to watercraft.
Technical:	Technically feasible.
Political:	Borough strongly supports project.
Legal:	No Legal issues.
Environmental:	No adverse environmental effects from dunes.
Social:	no social impact, would actually improve the community.
Administrative Capability:	Project management would be needed.
Local Champion:	Council/Public and Engineering; First Response Agencies.
Other Community Objectives:	While improving emergency access for first responders, it will also improve recreational boating access to river.
STAPLEE Evaluation:	8

Implementing the Action

Cost Estimate:	\$525,000.00
Priority:	
Local Planning Mechanism:	Committee consisting Local officials and engineering
Responsible Party:	Engineering
Likely Funding Source(s):	FEMA funding, Grants, bond, mitigation funds, State transportation fund
Timeline:	
Action Status:	Completed
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 39_11

Oceanport, Borough of

Describing the Action

Action Name:	Construct Gates on Bridges to Prevent Residents from Re-Entering Borough Post Storm
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other/NA
Action Description:	The Borough needs gates on four bridges (Branchport Ave. Bridge, Gooseneck Bridge, Pleasure Bay Bridge and Oceanport Ave. Bridge by Parkers Creek (Border with Little Silver) to restrict people from re-entering the Borough when it's unsafe after a major flooding or hurricane event. This will require the cooperation of Monmouth County since each bridge is a county bridge.

Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	1, 4, 5, 6
Risk Reduction:	With Sandy and the 92 Nor'Easter, the area which is the Port-au-Peck section was devastated with down trees, powerlines and other roadway obstructions. Each of these bridges is a conduit for travel to and from Monmouth Beach, Long Branch and Little Silver. By restricting travel, we stop people from entering these areas so that utilities can work, public works can clear the roadways, damage assessment can be made and lifesaving work done. No sense for them to come into the area till it's made safe and stop unwanted people from criminal activity. It's bad enough we had thief happen in the 92 storm by people entering properties from the river side by boats.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected.
Legal:	Coordinate with the County since they own the bridges.
Environmental:	No adverse environmental impact anticipated
Social:	Protects the safety of all residents.
Administrative Capability:	Borough has sufficient capacity and experience to coordinate this action.
Local Champion:	OEM
Other Community Objectives:	Protect life.
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$400,000.00
Priority:	Low
Local Planning Mechanism:	Hazard Mitigation Plan
Responsible Party:	Monmouth County and Borough
Likely Funding Source(s):	Municipal budget
Timeline:	1 year
Action Status:	New
Notes:	

CAPABILITY ASSESSMENT WORKSHEET

Name: Mauro Baldanza

Title: Coordinator

Jurisdiction: Oceanport Borough

Organization:

Local Mitigation Capabilities are existing authorities, policies, programs, and resources that reduce hazard impacts or that could be used to implement hazard mitigation activities. Please complete the tables and questions in the worksheet as completely as possible.

Planning & Regulatory

Planning and Regulatory Capabilities are the plans, policies, codes, and ordinances that prevent and reduce the impacts of hazards. Please indicate which of the following your jurisdiction currently has in place.

Plan	Yes/No	1. What is the date/year of the plan? 2. Does the plan address hazards? 3. Does the plan identify projects to include in the mitigation strategy? 4. Can the plan be used to implement mitigation actions?
Comprehensive/Master Plan	Yes	1. 2016 2. Yes; addresses hazards and community resiliency 3. Yes 4. Yes
Capital Improvements Plan	Yes	Annual; depends on what the plan will include; no; yes if funded
Economic Development Plan	No	
Local Emergency Operations Plan	Yes	Recertified in 2019. Hazards known are mentioned; no, no
Continuity of Operations Plan	No	
Post-Disaster Recovery Plan	No	But we have a draft that could be reviewed for possible inclusion
Transportation Plan	Yes	Master Plan (2016); NO; NO; NO
Stormwater Management Plan	Yes	Update 2019; No; No; No
Community Wildfire Protection Plan	No	



CAPABILITY ASSESSMENT WORKSHEET

Other special plans (e.g., brownfields redevelopment, disaster recovery, coastal zone management, climate change adaptation)	Yes	<ul style="list-style-type: none"> • Strategic Recovery and Planning Report (2014) • NJ FRAMES • Getting to Resilience • NJ Coastal Community Resilience Demonstration Project • Strategic Recovery Planning Report
Building Code, Permitting, and Inspections	Yes/No	Are codes adequately enforced?
Building Code	Yes	Version/Year: 2015; yes
Building Code Effectiveness Grading Schedule (BCEGS) Score	Yes	Score: 4 for 1 and 2 family; 4 for all other construction
Fire Department ISO rating	Yes	Rating: 4
Site Plan Review Requirements	Yes	Yes
Land Use Planning and Ordinances	Yes/No	Is the ordinance an effective measure for reducing hazard impacts? Is the ordinance adequately administered and enforced?
Zoning Ordinance	Yes	Yes; Yes
Subdivision Ordinance	Yes	Yes; Yes
Floodplain Ordinance	Yes	Flood Damage Prevention Ordinance (2.5 FT above BFE)
Natural hazard ordinance (stormwater, steep slope, wildfire)	No	
Flood Insurance Rate Maps	Yes	Yes; Yes. Maps available for review by public
Acquisition of Land for Open Space and Public Recreation Uses	Yes	Green acres and Blue acres program funded by NJ DEP
Post-Disaster Recovery Ordinance	No	Have a draft available for review and possible inclusion
Real Estate Disclose Ordinance	No	New Jersey Association of Realtors standard form of Seller's property condition disclosure statement



CAPABILITY ASSESSMENT WORKSHEET

Other (ie. Special Purposes Ordinance)	Yes	Special Purposes Ordinance and Growth Management Ordinance
How can the above capabilities be expanded and improved to reduce risk?		
Applications of recommends from Other Special Plans that could reduce risk.		

Administrative & Technical

Identify whether your community has the following administrative and technical capabilities. These include staff and their skills and tools that can be used for mitigation planning and to implement specific mitigation actions. For smaller jurisdictions without local staff resources, if there are public resources at the next higher-level government that can provide technical assistance, indicate so in your comments.

Administration	Yes/No	Describe capability Is coordination effective?
Planning Commission	Yes	Planning Board
Mitigation Planning Committee	Yes	Local Emergency Planning Council, meets to discuss emergency management actions that could include mitigation measures
Maintenance Programs to Reduce Risk (e.g., tree trimming, clearing drainage systems)	Yes	JCP& L does tree trimming programs to reduce outages; drainage system inspected under Stormwater Program
Mutual Aid Agreements	Yes	Countywide plan for the sharing of resources and manpower Construction officials for assist to towns during disasters
Staff	Yes/No FT/PT	Is the staff full time or part time? Is staffing adequate to enforce regulations? Is the staff trained on hazards and mitigation? Is coordination between agencies and staff effective?
Chief Building Official	Yes/FT	Yes; yes; yes
Floodplain Administrator	Yes/PT	Served by Borough Engineer; yes; yes; yes
Emergency Manager	Yes/PT	No; Yes; Yes
Community Planner	Yes/PT	Have a private firm assist with planning; yes; yes; yes



CAPABILITY ASSESSMENT WORKSHEET

Civil Engineer	Yes/PT	Associated with Borough Engineer
Surveyor	Yes/PT	Associated with Borough Engineer
GIS Coordinator	Yes/PT	Use Monmouth County GIS and Borough Clerk uses a program in house
Scientists familiar with the hazards of the community	No	
Other	Yes	CERT
Technical	Yes/No	Describe capability Has capability been used to access/mitigate risk in the past?
Warning Systems/Services (Reverse 911, outdoor warning signals)	Yes	Upgrading radio communications, Shrewsbury Flood Warning System, Emergency Alerting System, Code Red. Used to inform public of hazard condition and remove them from danger areas.
Hazard Data and Information	Yes	Municipal website has a tab for Emergency Info
Grant Writing	Yes	Borough engineering firm has grant writer; also individuals will prepare grants related to their jobs
Hazus Analysis	Yes	Have program with emergency management
Other	Yes	HURREVAC program
How can the above capabilities be expanded and improved to reduce risk?		
<p>Hazus and HURREVAC program can provide advance information to remove people from hazardous situations.</p>		



CAPABILITY ASSESSMENT WORKSHEET

Financial

Identify whether your jurisdiction has access to or is eligible to use the following funding resources for hazard mitigation.

Funding Resource	Access / Eligibility (Yes/No)	Has the funding resource been used in the past and for what type of activities? Could the resource be used to fund future mitigation actions?
Capital Improvements Project Funding	Yes	Yes, boat ramp repair and improvements
Authority to Levy Taxes for Specific Purposes	Yes	Open Space tax, to acquire vacant land and improve open space
Fees for Water, Sewer, Gas, or Electric Services	No	
Impact Fees for New Development	Yes	State COAH
Stormwater Utility Fee	No	
Incur Debt Through Private Activities	No	
Community Development Block Grant	Yes	Yes; street improvements to include drainage. Yes
Other Federal Funding Programs	No	
State Funding Programs	Yes	DOT grants used for streets; yes; yes DCA grants; used for GIS system; yes, yes
Other (e.g., withhold spending in hazard-prone areas)	No	Incur Debt through General Obligation and Incur Debt through Special Taxes and Revenue Bonds
How can these capabilities be expanded and improved to reduce risk?		
Funding to do projects and manpower to manage the project		



CAPABILITY ASSESSMENT WORKSHEET

Education and Outreach

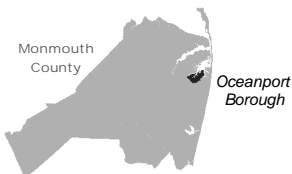
Identify education and outreach programs and methods already in place that could be used to implement mitigation activities and communicate hazard-related information.

Program/Organization	Yes/No	Describe program/organization and how it relates to disaster resilience and mitigation. Could the program/organization help implement future mitigation activities?
Local Citizen Groups or Non-Profit Organizations Focused on Environmental Protection, Emergency Preparedness, Access and Functional Needs Populations, etc.	Yes	Oceanport Cares- Non Profit- supports emergency management in response and recovery Register Ready- for people with physical disabilities that would need assistance in evacuation provide information to emergency response agencies so emergency responders can better plan to serve them in a disaster or other emergency.
Ongoing Public Education or Information Programs (e.g., responsible water use, fire safety, household preparedness, environmental education)	Yes	Links to Ready. Gov and other services on emergency information page of web site
Natural Disaster or Safety Related School Programs	Yes	School Safety plan deals more with response to situations like, active shooter, fire, severe weather
StormReady Certification	Yes	Expires 9/24/2022
Firewise Communities Certification	No	
Public-Private Partnership Initiatives Addressing Disaster Related Issues	No	
Other	Yes	Community Rating System (CRS)
How can these capabilities be expanded and improved to reduce risk?		
Working towards a new classification in the CRS Program		





MONMOUTH COUNTY HAZARD MITIGATION PLAN



Building Classification

Industrial Commercial Apartment Residential (four families or less)

Farm
 Vacant
 Civic/Public (Tax Exempt)
 Unclassified

Barrel Classification

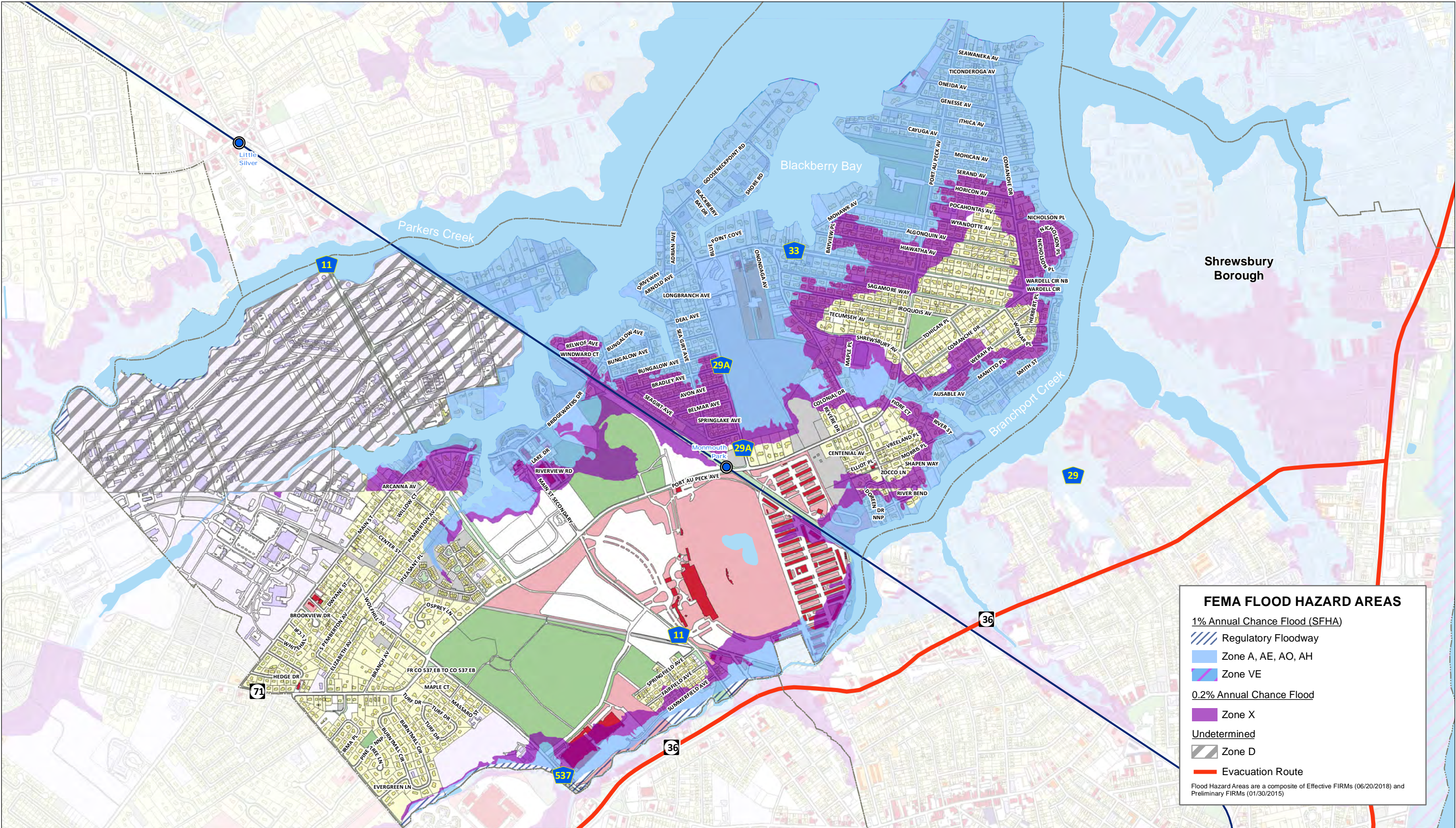
Parcel Classification

Industrial Commercial Apartment Residential (four families or less)

0 650 1,300 Feet

**Michael Baker**
INTERNATIONAL

Source: 2014 Esri; Monmouth County;
NJOIT-OGIS; NJGIN MODIV Parcel, FEMA
Projection: New Jersey State Plane, NAD 1983



This map was developed using the 10-04-18 statewide composite of parcel data published by the NJOIT-OGIS. The State of New Jersey makes great effort to provide secure, accurate, and complete data and metadata. However, portions of the data and metadata may be incorrect or not current. Any errors or omissions should be reported for investigation to OGIS.



Monmouth County

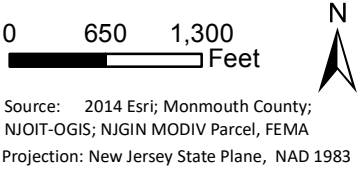
Oceanport Borough

Building Classification

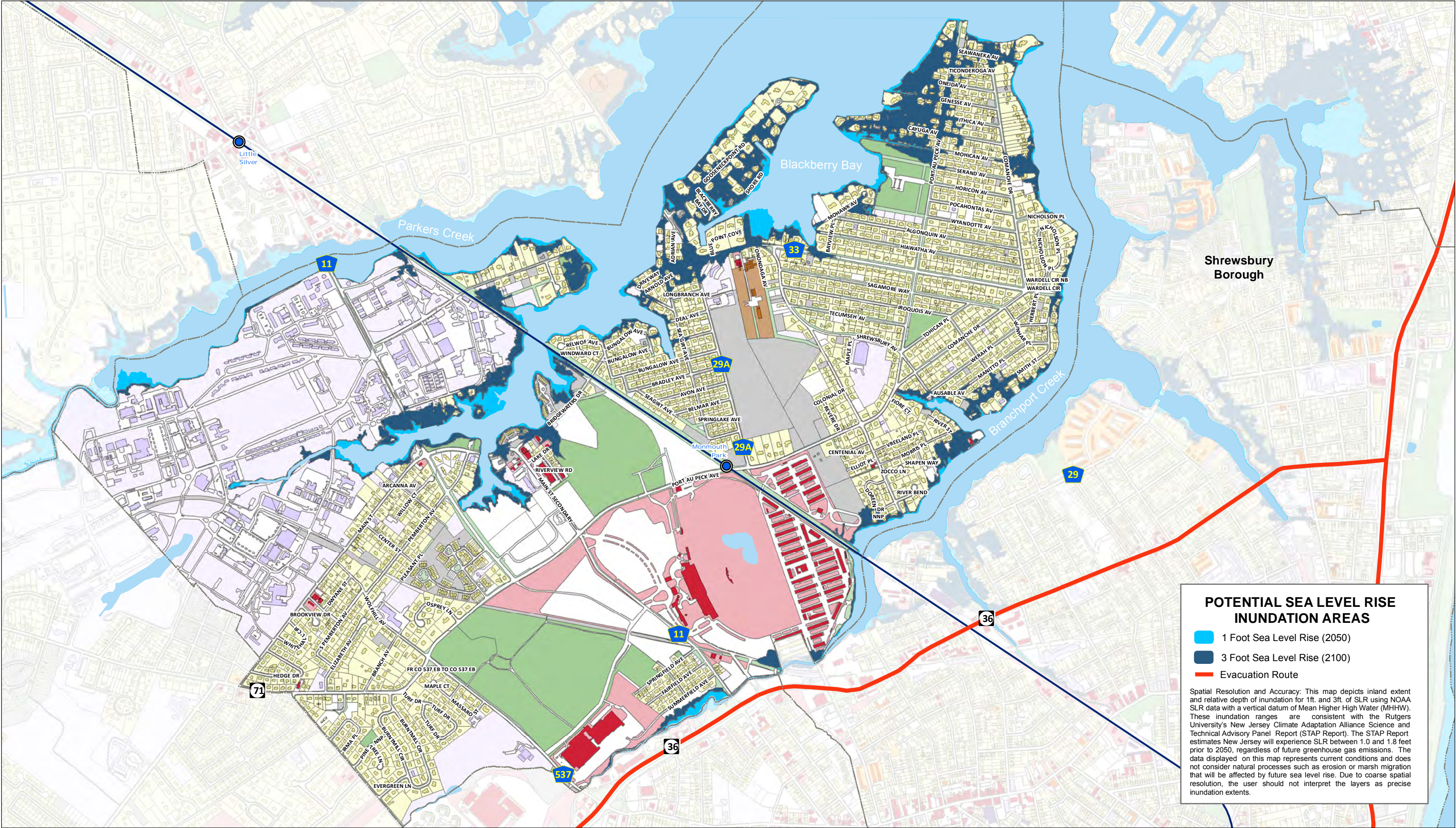
Industrial Commercial Apartment Residential (four families or less)
Farm Vacant Civic/Public (Tax Exempt) Unclassified

Parcel Classification

Industrial Commercial Apartment Residential (four families or less)
Farm Vacant Civic/Public (Tax Exempt) Unclassified Open Space



Michael Baker
INTERNATIONAL



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MEETING NOTES

Topic: Oceanport- Monmouth County HMP Update Meeting

Date: May 9, 2019

Time: 4:00 PM- 5:00 PM

Location: Boro Hall 315 E. Main St. Oceanport, NJ 07757

Drafted by: Paige Kaspar

Introductions (Brittany):

- Goals and Hazards
- What is Mitigation Hazard Planning?
- Funding Available
 - HMA
- Mitigation Strategies

Status of 2015 Mitigation Actions:

1. Elevate Residential Homes (118 substantially damaged)
2. Relocate Borough Hall Phase 1: Acquire Land for The New Building (complete)
3. Relocate Borough Hall Phase 2: Construct the New Building (complete)
4. Generators: Have a grant that is still available for a diesel generator; electrical system is very complicated at school so moved generator to two new buildings: police station
5. Stormwater Drainage- Port-au-Peck section (phase 1)
6. Stormwater Drainage- Port-au-Peck section (phase 2)
7. Re-snagging and debris from Turtle Mill Brook
8. Elevation of Roadways
9. Physical barrier with movable gate
10. Ramp for lifesaving boat (complete)



Possible New Mitigation Actions:

1. Need gates to keep people out of the Borough after a storm
 - a. Need gates on bridges to keep residents out
 - b. Took police officer and trucks away from emergency
 - c. Bridgeport Ave. Bridge, Gooseneck Bridge, Pleasure Bay Bridge, Oceanport Ave Bridge
 - d. Trees and powerlines were down
2. Backflow preventers on county drains Monmouth Blvd proposed tidal vales (on mitigation list?)
3. Portable dams?
4. Swell along property line?
5. Backup generators on Sewer pump stations?
6. Message boards Blackberry park and community center?

Repetitive Loss Properties:

- 8 of 120 mitigated

Problems:

- Port-au-Peck (main evacuation route) and Comanche intersection floods and would cut off access from eastern Oceanport
- Last time Shrewsbury River was dredged was in the 1980s
- Would lose Port-au-Peck Fire House and First Aid with a storm over Category 2

Successes:

- The borough established a freeboard requirement of 2.5 feet in 2009, representing one of the more stringent requirements in the state.
- The borough recently completed a bulkhead repair project at Blackberry Bay Park.
- Oceanport decided to move Borough Hall and the Department of Public Works out of the flood zone to a Fort Monmouth location rather than rehabilitate them after flooding from Sandy. The borough did a full cleaning of the stormwater system to ensure that there were no clogs that could lead to flooding during heavy precipitation events.

Capabilities:

- Worked with NJ FRAMES
- GTR
- Moving municipal buildings out of a flood zone
- Audible sound system (depends on wind direction)
- Reverse 911, Code Red



Monmouth County
Multi-Jurisdictional Hazard Mitigation Plan Update



Michael Baker
INTERNATIONAL

Meeting: Oceanport HMP

Date: 05-09-19

Initial	Last Name	First Name	Title	Organization	Email Address
	BALANDA	MAURIS	Depl Coordinator	Oceanport DESH	DESH@OCEANPORTBORO.COM
	PHILIPS	DONNA	ADMINISTRATOR	OCEANPORT	STEPH@OCEANPORTBORO.COM
	WHITE	Bru	Bru Engineer	White Construction	WHITE@ASTROCONSTRUCT.COM
	JOHNSON	JOHN	CONSTRUCTION OFFICIAL	OCEANPORT	CONSTRUCTION OFFICIAL@OCEANPORTBORO.COM
	SAARS	JOE	PORT DIR. CRANING	Moore Engineering	JOE.SAARS@CONVENT.NY.U.S.

Appendix Vol I.40 Red Bank Borough

Please find below the following documents specific to this jurisdiction that have been included as part of the plan update process.

- Summary Sheet
- Mitigation Action Table
- Mitigation Action Worksheets
- Capability Assessment
- Flood Zone Map
- Sea Level Rise Vulnerability Map
- Meeting Material



NFIP Statistics

72 *Polices In-force*

33 *Total Losses*

\$4,884,528 *Total Payments*

3 *Number of RL Properties*

0 *Number Mitigated
RL Properties*

8 *RL - Total Losses*

\$1,487,369 *RL - Total Paid*

0 *Number of SRL Properties*

0 *Number Mitigated SRL
Properties*

0 *SRL - Total Losses*

\$0 *SRL - Total Paid*

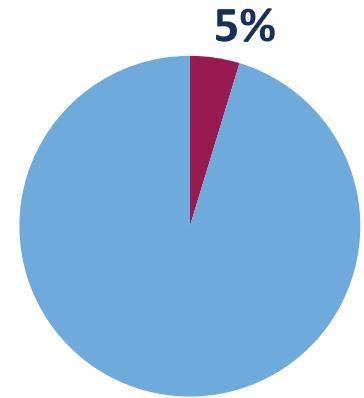


Critical Facilities

28 *Critical Facilities*

10 *Critical Infrastructure*

99 *Historic & Cultural Resources*



Percent Land Area Within SFHA

10

*Total Mitigation
Actions*

3



Education and Awareness Programs

5



Structure and Infrastructure Projects

2



Local Plans and Regulations

0



Natural Systems Protection



409 *SV Population At Risk (2017)*

575 *Population at Risk (2017)*

Red Bank, Borough of

Monmouth County HMP Mitigation Action Summary

Community Action #	Action Name	Action Description	Action Category	Action Type	Hazard(s) Addressed	Priority	Responsible Party	Potential Funding Sources	Cost Estimate	Timeline	Action Status
40_01	Acquire, elevate, or relocate buildings and infrastructure in flood prone areas, with a focus on Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties	At the discretion of facility owners, encourage mitigation activities for at-risk properties, specifically Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties, including: (a) removal of existing structures from flood hazard areas; (b) elevate or retrofit structures and utilities; and (c) flood proofing (wet floodproofing, dry floodproofing, ring walls, etc.). 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. Hotel, convalescent home, school, nursing home and office building would be potential candidates for floodproofing (wet or dry floodproofing, ring walls); elevation or retrofit of utilities; or relocation. Potential locations include: Red Bank Board of Education and Majestic Rehab and Nursing Center at Red Bank. Work to come up with a plan to address flooding issues due to its location in the flood zone.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	The borough needs to identify the position title of a party responsible for	FEMA HMA		5 + years	Ongoing
40_02	New Communication Tower at Tower Hill Water Plant	New communication tower, radio room, and water plant replacing damaged structures located at the Tower Hill Water Plant. Possibility of adding Radio frequency for use with battery transistors.		Education and Awareness Programs	All Hazards		Construction Official	Grants, Insurance, local budget.	\$350,000.00		Completed
40_03	Drainage Improvements in Marine Park	Need to maintain integrity of existing bulkhead, as it has been replaced and structurally withheld the last three storm surges, flooding still occurs. 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 Superstorm Sandy and has not yet been restored.		Structure and Infrastructure Project	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge		Mayor and Council	Grants	\$4,000,000.00		Completed
40_04	Implement Stormwater Management Maintenance Plan	Perform regular sediment and debris clearance to help ensure that the system is kept unimpaired and therefore functioning properly.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm	Medium	DPW	Municipal budget	\$150,000.00	1 year	Ongoing
40_05	Evaluate Water and Sewer Infrastructure and Make Improvements as Needed	Maintain inadequate and decomposing materials and increase capacity where applicable.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm	Medium	DPW	Municipal budget	\$10,000,000.00	1 year	Ongoing

Red Bank, Borough of

Monmouth County HMP Mitigation Action Summary

Community Action #	Action Name	Action Description	Action Category	Action Type	Hazard(s) Addressed	Priority	Responsible Party	Potential Funding Sources	Cost Estimate	Timeline	Action Status
40_06	Coordinate with Red Bank Primary School on Flood Mitigation Strategies	Work with the Board of Education on coming up with a plan to addressing the flooding issues. Examples of mitigation can include flood proofing or elevations.	Administrative	Education and Awareness Programs	All Hazards	Medium	Board of Education, Borough	Municipal budget, Homeland Security grants		2 years	New
40_07	Coordinate with Chapin Hill Nursing Home on Mitigation Strategies to Address Flooding, including partnering with the Salvation Army	Coordinate with the Chapin Hill Nursing Home (100 Chapin Ave.) to mitigate the facility's flooding issue. During Hurricane Irene, the Borough coordinated with the Nursing Home and the Salvation Army to partner together for evacuations and shelters.	Administrative	Local Plans and Regulations	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge	Medium	Hackensack Meridian Health, Borough	CDBG-DR or other HUD funding		5 + years	New
40_08	Implement Impervious Cover Reduction Action Plan	Implement green infrastructure practices listed in Rutgers' Impervious Cover Reduction Action Plan for Red Bank (2017).	Administrative	Local Plans and Regulations	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm	Medium	Borough of Red Bank	Municipal budget		5 + years	New
40_09	Establish a Tree Trimming Program and Create a Wind Shield Survey	Through the Borough's existing Shade Tree Committee, establish a tree trimming program and create a Wind Shield Survey for public inventory.	Maintenance/Response/Recovery	Education and Awareness Programs	Extreme Wind, Lightning, Nor'easter, Hurricane and Tropical Storm, Wildfire, Tornado	Medium	Shade Tree Committee, Borough Administrator, DPW	Municipal budget		5 + years	New
40_10	Construct Flood Measure (e.g. floodwalls or bulkhead) along the Navesink River	Construct Flood Measure (e.g. floodwalls or bulkhead) along the Navensink River, which causes repetitive flooding to critical facilities.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Lightning, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Borough	FEMA HMA		3 years	New

Monmouth County Mitigation Action Worksheets

Community Action Number: 40_01

Red Bank, Borough of

Describing the Action

Action Name:	Acquire, elevate, or relocate buildings and infrastructure in flood prone areas, with a focus on Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Structural Retrofitting of Existing Buildings
Action Description:	At the discretion of facility owners, encourage mitigation activities for at-risk properties, specifically Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties, including: (a) removal of existing structures from flood hazard areas; (b) elevate or retrofit structures and utilities; and (c) flood proofing (wet floodproofing, dry floodproofing, ring walls, etc.). 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. Hotel, convalescent home, school, nursing home and office building would be potential candidates for floodproofing (wet or dry floodproofing, ring walls); elevation or retrofit of utilities; or relocation. Potential locations include: Red Bank Board of Education and Majestic Rehab and Nursing Center at Red Bank. Work to come up with a plan to address flooding issues due to its location in the flood zone.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	1, 2, 3, 5, 6
Risk Reduction:	Several commercial properties, a Primary School, residential units (including a 90-bed convalescent center), and a Hotel are within the flood zone. Substantial surge will cause imminent damage to all structures in the flood zone unless structures are raised mitigated. During Superstorm Sandy, storm surge flooding was observed along the immediate shoreline of the Navesink and Swimming River. 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 Superstorm 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.
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.
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; Borough will work with willing private property owners.
Environmental:	No adverse environmental impact anticipated.
Social:	Does not adversely affect any particular social group.
Administrative Capability:	Outside assistance would be needed to complete this action.
Local Champion:	Private property owners.
Other Community Objectives:	Furthers goals of participating in the National Flood Insurance Program.
STAPLEE Evaluation:	10

Implementing the Action

Cost Estimate:	
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.
Likely Funding Source(s):	FEMA HMA
Timeline:	5 + years

Action Status:	Ongoing
Notes:	Ongoing action from 2015; mitigation actions have occurred at the Oyster Point Hotel (146 Bodman Pl), 40 Riverside Ave. (flood panels), Riverview Hospital, 28 Riverside Ave., 30 Hubbard Park, and the Red Bank Library however the Borough would like to continue to support property owners in mitigating their properties.

Monmouth County Mitigation Action Worksheets

Community Action Number: 40_02	Red Bank, Borough of
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Describing the Action

Action Name:	New Communication Tower at Tower Hill Water Plant
Action Category:	
Action Type:	Education and Awareness Programs
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	New communication tower, radio room, and water plant replacing damaged structures located at the Tower Hill Water Plant. Possibility of adding Radio frequency for use with battery transistors.

Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	3, 4, 5, 6, 7
Risk Reduction:	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.
Technical:	Technically Feasible.
Political:	Supported by both political and publicly.
Legal:	Borough has the authority to implement.
Environmental:	Complies with environmental regulations.
Social:	Will not disrupt or negatively impact any segment of the population.
Administrative Capability:	Borough has sufficient capacity and experience to coordinate this action.
Local Champion:	Local Police, Fire, and OEM Other
Other Community Objectives:	Will be maintained on current location. No impact on new development.
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$350,000.00
Priority:	
Local Planning Mechanism:	Construction regulated under current codes and regulations.
Responsible Party:	Construction Official
Likely Funding Source(s):	Grants, Insurance, local budget.
Timeline:	
Action Status:	Completed
Notes:	Completed action; tower has repetitive systems and generator. The Borough was awarded \$1,475 of FEMA Funding 406 Public Assistance for repairs to the roof of the plant.

Monmouth County Mitigation Action Worksheets

Community Action Number: 40_03

Red Bank, Borough of

Describing the Action

Action Name:	Drainage Improvements in Marine Park
Action Category:	
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Localized Flood Risk Reduction Projects
Action Description:	Need to maintain integrity of existing bulkhead, as it has been replaced and structurally withheld the last three storm surges, flooding still occurs. 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 Superstorm Sandy and has not yet been restored.

Evaluating the Action

Hazard(s) Addressed:	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 5, 6
Risk Reduction:	Flooding and wave action are a significant issue in the Marine Park area. The existing bulkhead has been unable to prevent storm surges from damaging infrastructure but has prevent wave induced erosion to the park.
Technical:	Technically Feasible.
Political:	Supported politically and publicly.
Legal:	Borough of Red Bank
Environmental:	Does and will comply with environmental standards.
Social:	No disruption
Administrative Capability:	Outside help
Local Champion:	Environmental and Borough
Other Community Objectives:	Open space preservation.
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$4,000,000.00
Priority:	
Local Planning Mechanism:	Engineering
Responsible Party:	Mayor and Council
Likely Funding Source(s):	Grants
Timeline:	
Action Status:	Completed
Notes:	Electrical equipment relocated to garage, generator for pump station installed, and tennis court created. The Borough was awarded FEMA Funding 406 Public Assistance for repairs to Marine Park post-Sandy. The Borough was awarded HMGP funding for the Marine Park Pump Station Generator and Equipment Protection Measure Project (\$345,985) post-Sandy.

Monmouth County Mitigation Action Worksheets

Community Action Number: 40_04

Red Bank, Borough of

Describing the Action

Action Name:	Implement Stormwater Management Maintenance Plan
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other/NA
Action Description:	Perform regular sediment and debris clearance to help ensure that the system is kept unimpaired and therefore functioning properly.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm
Goals:	2, 3, 4, 5, 6
Risk Reduction:	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.
Technical:	Technically Feasible.
Political:	Supported politically and publicly
Legal:	Borough of Red Bank has authority.
Environmental:	Does and will comply with environmental standards.
Social:	Will not disrupt the population.
Administrative Capability:	Borough DPW
Local Champion:	Borough of Red Bank elected Officials.
Other Community Objectives:	Supports environmental quality
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$150,000.00
Priority:	Medium
Local Planning Mechanism:	DPW
Responsible Party:	DPW
Likely Funding Source(s):	Municipal budget
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing action from 2015; plan has been created however the Borough would like to keep this as an action to maintain the plan.

Monmouth County Mitigation Action Worksheets

Community Action Number: 40_05

Red Bank, Borough of

Describing the Action

Action Name:	Evaluate Water and Sewer Infrastructure and Make Improvements as Needed
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other/NA
Action Description:	Maintain inadequate and decomposing materials and increase capacity where applicable.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm
Goals:	3, 5, 7
Risk Reduction:	The existing water and sewer system are inadequate and 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.
Technical:	Technically Feasible.
Political:	No adverse political ramifications are expected.
Legal:	Borough of Red Bank and TRSA.
Environmental:	Will comply with environmental regulations.
Social:	Equal impact throughout Borough
Administrative Capability:	Outside help is necessary.
Local Champion:	Borough of Red Bank Elected Officials
Other Community Objectives:	Sustains environmental quality
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$10,000,000.00
Priority:	Medium
Local Planning Mechanism:	Engineering and DPW
Responsible Party:	DPW
Likely Funding Source(s):	Municipal budget
Timeline:	1 year
Action Status:	Ongoing
Notes:	<p>The Borough is currently reevaluating infrastructure and has installed a secondary well and a fixed water meter system.</p> <p>The Borough was awarded HMGP for Pump Station Generators post-Sandy (\$248,991)</p> <p>The Borough was also rewarded FEMA Funding 406 Public Assistance for repair of the lift station control panel and sewage pump at the Marine Park Lift Station.</p>

Monmouth County Mitigation Action Worksheets

Community Action Number: 40_06

Red Bank, Borough of

Describing the Action

Action Name:	Coordinate with Red Bank Primary School on Flood Mitigation Strategies
Action Category:	Administrative
Action Type:	Education and Awareness Programs
HMA Eligible Activity:	Infrastructure Retrofit
Action Description:	Work with the Board of Education on coming up with a plan to addressing the flooding issues. Examples of mitigation can include flood proofing or elevations.

Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	1, 3, 6, 7
Risk Reduction:	Adding an additional emergency access road will reduce the risk of flooding for students, a vulnerable population.
Technical:	Technically Feasible.
Political:	No adverse political ramifications are expected
Legal:	The school is a public school.
Environmental:	Will comply with environmental regulations.
Social:	This action furthers protection of a vulnerable population
Administrative Capability:	Borough has sufficient capacity and experience to administer this action.
Local Champion:	OEM

Other Community Objectives:

STAPLEE Evaluation:	N/A
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Implementing the Action

Cost Estimate:	
Priority:	Medium
Local Planning Mechanism:	Hazard Mitigation Plan
Responsible Party:	Board of Education, Borough
Likely Funding Source(s):	Municipal budget, Homeland Security grants
Timeline:	2 years
Action Status:	New

Notes:

Monmouth County Mitigation Action Worksheets

Community Action Number: 40_07

Red Bank, Borough of

Describing the Action

Action Name:	Coordinate with Chapin Hill Nursing Home on Mitigation Strategies to Address Flooding, including partnering with the Salvation Army
Action Category:	Administrative
Action Type:	Local Plans and Regulations
HMA Eligible Activity:	Structural Retrofitting of Existing Buildings
Action Description:	Coordinate with the Chapin Hill Nursing Home (100 Chapin Ave.) to mitigate the facility's flooding issue. During Hurricane Irene, the Borough coordinated with the Nursing Home and the Salvation Army to partner together for evacuations and shelters.

Evaluating the Action

Hazard(s) Addressed:	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	1, 2, 3, 4, 5, 6, 7
Risk Reduction:	Nursing home is located in a Special Flood Hazard Zone and floods frequently.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected
Legal:	The nursing home is privately owned by Hackensack Meridian Health; the Borough can only encourage the facility to protect themselves against flood events.
Environmental:	Will comply with environmental regulations.
Social:	This action furthers protection of a vulnerable population
Administrative Capability:	Borough has sufficient capacity and experience to administer this action.
Local Champion:	OEM
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	Medium
Local Planning Mechanism:	Hazard Mitigation Plan
Responsible Party:	Hackensack Meridian Health, Borough
Likely Funding Source(s):	CDBG-DR or other HUD funding
Timeline:	5 + years
Action Status:	New
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 40_08

Red Bank, Borough of

Describing the Action

Action Name:	Implement Impervious Cover Reduction Action Plan
Action Category:	Administrative
Action Type:	Local Plans and Regulations
HMA Eligible Activity:	Miscellaneous/Other/NA
Action Description:	Implement green infrastructure practices listed in Rutgers' Impervious Cover Reduction Action Plan for Red Bank (2017).

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm
Goals:	2, 3, 5, 6
Risk Reduction:	The Borough is highly dense and stormwater cannot always infiltrate into the ground due to development. Green infrastructure practices will strengthen stormwater management and therefore reduce local flooding.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected.
Legal:	No legal impediments anticipated.
Environmental:	This action will improve the environment's stormwater quality.
Social:	Does not adversely affect any particular social group.
Administrative Capability:	Borough has sufficient capacity and experience to administer this action.
Local Champion:	Borough Engineer

Other Community Objectives:

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate:	
Priority:	Medium
Local Planning Mechanism:	Hazard Mitigation Plan, Impervious Cover Reduction Action Plan for Red Bank (2017)
Responsible Party:	Borough of Red Bank
Likely Funding Source(s):	Municipal budget
Timeline:	5 + years
Action Status:	New

Notes:

Monmouth County Mitigation Action Worksheets

Community Action Number: 40_09

Red Bank, Borough of

Describing the Action

Action Name:	Establish a Tree Trimming Program and Create a Wind Shield Survey
Action Category:	Maintenance/Response/Recovery
Action Type:	Education and Awareness Programs
HMA Eligible Activity:	Miscellaneous/Other/NA
Action Description:	Through the Borough's existing Shade Tree Committee, establish a tree trimming program and create a Wind Shield Survey for public inventory.

Evaluating the Action

Hazard(s) Addressed:	Extreme Wind, Lightening, Nor'easter, Hurricane and Tropical Storm, Wildfire, Tornado
Goals:	1, 2, 3, 4, 5, 6, 7
Risk Reduction:	There are several large, old trees in the Borough that are hazards to life and property during storms.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected.
Legal:	No legal impediments anticipated.
Environmental:	Will comply with environmental regulations.
Social:	Does not adversely affect any particular social group.
Administrative Capability:	Borough has sufficient capacity and experience to administer this action.
Local Champion:	Shade Tree Committee
Other Community Objectives:	This action furthers the Shade Tree Committee's Powers & Duties.
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	Medium
Local Planning Mechanism:	Shade Tree Committee
Responsible Party:	Shade Tree Committee, Borough Administrator, DPW
Likely Funding Source(s):	Municipal budget
Timeline:	5 + years
Action Status:	New
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 40_10

Red Bank, Borough of

Describing the Action

Action Name:	Construct Flood Measure (e.g. floodwalls or bulkhead) along the Navesink River
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Localized Flood Risk Reduction Projects
Action Description:	Construct Flood Measure (e.g. floodwalls or bulkhead) along the Navensink River, which causes repetitive flooding to critical facilities.

Evaluating the Action

Hazard(s) Addressed:	Flood, Lightening, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	1, 2, 3
Risk Reduction:	Properties along the Navensink River are subject to repetitive flooding and need protection.
Technical:	Technically feasible.
Political:	No adverse political implications.
Legal:	No legal impediments.
Environmental:	Minor affects to the envioronment.
Social:	Does not adversely affect any particular social group.
Administrative Capability:	Borough has sufficient capacity and experience to administer this action.
Local Champion:	OEM, Emergency Response Services

Other Community Objectives:

STAPLEE Evaluation:	9
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Implementing the Action

Cost Estimate:	
Priority:	High
Local Planning Mechanism:	Hazard Mitigation Plan
Responsible Party:	Borough
Likely Funding Source(s):	FEMA HMA
Timeline:	3 years
Action Status:	New

Notes:

CAPABILITY ASSESSMENT WORKSHEET

Name: Ziad Shehady

Title: Business Administrator

Jurisdiction: Red Bank Borough

Organization:

Local Mitigation Capabilities are existing authorities, policies, programs, and resources that reduce hazard impacts or that could be used to implement hazard mitigation activities. Please complete the tables and questions in the worksheet as completely as possible.

Planning & Regulatory

Planning and Regulatory Capabilities are the plans, policies, codes, and ordinances that prevent and reduce the impacts of hazards. Please indicate which of the following your jurisdiction currently has in place.

Plan	Yes/No	1. What is the date/year of the plan? 2. Does the plan address hazards? 3. Does the plan identify projects to include in the mitigation strategy? 4. Can the plan be used to implement mitigation actions?
Comprehensive/Master Plan	Yes	2019 Re-Examination Plan; does not address hazards.
Capital Improvements Plan	Yes	
Economic Development Plan	No	
Local Emergency Operations Plan	Yes	
Continuity of Operations Plan	No	
Post-Disaster Recovery Plan	No	
Transportation Plan	No	
Stormwater Management Plan	Yes	2007
Community Wildfire Protection Plan	No	



CAPABILITY ASSESSMENT WORKSHEET

Other special plans (e.g., brownfields redevelopment, disaster recovery, coastal zone management, climate change adaptation)	Yes	<ul style="list-style-type: none"> • Red Bank Marine Park Plan (2019) • Areas in Need of Rehabilitation Map • Impervious Cover Reduction Action Plan for Red Bank (2017) • Tree Management Plan (2016-2020) • NJ FRAMES
Building Code, Permitting, and Inspections	Yes/No	Are codes adequately enforced?
Building Code	Yes	Version/Year: (as adopted by NJAC 5:23)
Building Code Effectiveness Grading Schedule (BCEGS) Score		Score:
Fire Department ISO rating		Rating:
Site Plan Review Requirements	Yes	
Land Use Planning and Ordinances	Yes/No	Is the ordinance an effective measure for reducing hazard impacts? Is the ordinance adequately administered and enforced?
Zoning Ordinance	Yes	
Subdivision Ordinance	Yes	
Floodplain Ordinance	Yes	
Natural hazard ordinance (stormwater, steep slope, wildfire)		
Flood Insurance Rate Maps	Yes	
Acquisition of Land for Open Space and Public Recreation Uses	Yes	
Post-Disaster Recovery Ordinance	No	
Real Estate Disclose Ordinance	No	



CAPABILITY ASSESSMENT WORKSHEET

Other (ie. Special Purposes Ordinance)	Yes	Special Purposes Ordinance and Growth Management Ordinance
How can the above capabilities be expanded and improved to reduce risk?		

Administrative & Technical

Identify whether your community has the following administrative and technical capabilities. These include staff and their skills and tools that can be used for mitigation planning and to implement specific mitigation actions. For smaller jurisdictions without local staff resources, if there are public resources at the next higher-level government that can provide technical assistance, indicate so in your comments.

Administration	Yes/No	Describe capability Is coordination effective?
Planning Commission	Yes	
Mitigation Planning Committee	Yes	Emergency Management Committee
Maintenance Programs to Reduce Risk (e.g., tree trimming, clearing drainage systems)	Yes	Shade Tree Committee, Stormwater Management/ Clearing drainage system
Mutual Aid Agreements		
Staff	Yes/No FT/PT	Is the staff full time or part time? Is staffing adequate to enforce regulations? Is the staff trained on hazards and mitigation? Is coordination between agencies and staff effective?
Chief Building Official	Yes FT	Construction Official (FT) Subcode Officials: Building, Plumbing, Electrical, and Fire Protection (FT)
Floodplain Administrator	Yes	
Emergency Manager	Yes	
Community Planner	Yes	



CAPABILITY ASSESSMENT WORKSHEET

Civil Engineer	Yes	
Surveyor	Yes	
GIS Coordinator	Yes	
Scientists familiar with the hazards of the community	Yes	
Other		
Technical	Yes/No	Describe capability Has capability been used to access/mitigate risk in the past?
Warning Systems/Services (Reverse 911, outdoor warning signals)	Yes	
Hazard Data and Information	Yes	
Grant Writing	Yes	
Hazus Analysis	Yes	
Other		
How can the above capabilities be expanded and improved to reduce risk?		



CAPABILITY ASSESSMENT WORKSHEET

Financial

Identify whether your jurisdiction has access to or is eligible to use the following funding resources for hazard mitigation.

Funding Resource	Access / Eligibility (Yes/No)	Has the funding resource been used in the past and for what type of activities? Could the resource be used to fund future mitigation actions?
Capital Improvements Project Funding	Yes	
Authority to Levy Taxes for Specific Purposes	Yes	
Fees for Water, Sewer, Gas, or Electric Services	Yes	
Impact Fees for New Development	Yes	
Stormwater Utility Fee		
Incur Debt Through Private Activities	No	
Community Development Block Grant	Yes	
Other Federal Funding Programs	No	
State Funding Programs		
Other (e.g., withhold spending in hazard-prone areas)	Yes	Incur Debt through General Obligation and Incur Debt through Special Taxes and Revenue Bonds
How can these capabilities be expanded and improved to reduce risk?		



CAPABILITY ASSESSMENT WORKSHEET

Education and Outreach

Identify education and outreach programs and methods already in place that could be used to implement mitigation activities and communicate hazard-related information.

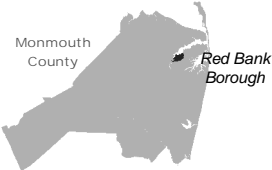
Program/Organization	Yes/No	Describe program/organization and how it relates to disaster resilience and mitigation. Could the program/organization help implement future mitigation activities?
Local Citizen Groups or Non-Profit Organizations Focused on Environmental Protection, Emergency Preparedness, Access and Functional Needs Populations, etc.		
Ongoing Public Education or Information Programs (e.g., responsible water use, fire safety, household preparedness, environmental education)	Yes	
Natural Disaster or Safety Related School Programs		
StormReady Certification		
Firewise Communities Certification		
Public-Private Partnership Initiatives Addressing Disaster Related Issues		
Other		
How can these capabilities be expanded and improved to reduce risk?		





RED BANK BOROUGH FLOOD VULNERABILITY

MONMOUTH COUNTY HAZARD MITIGATION PLAN



Building Classification

Industrial

Commercial

Apartment

Residential (four families or less)

Farm

Vacant

Civic/Public (Tax Exempt)

Unclassified

Parcel Classification

Industrial

Commercial

Apartment

Residential (four families or less)

Farm

Vacant

Civic/Public (Tax Exempt)

Unclassified

Open Space

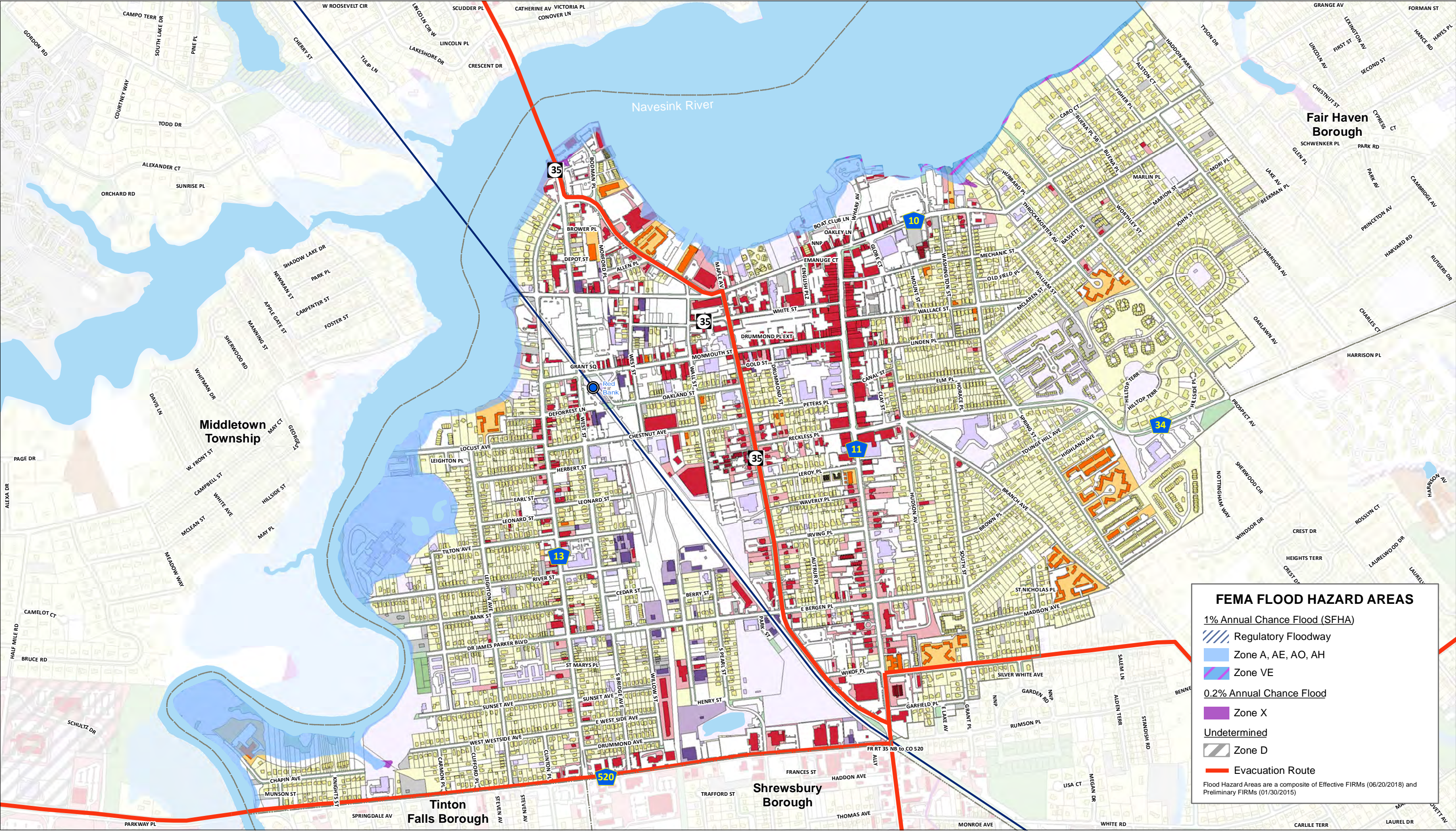
0450900

Feet

N

Source: 2014 Esri; Monmouth County; NJOIT-OGIS; NJGIN MODIV Parcel, FEMA

Projection: New Jersey State Plane, NAD 1983



FEMA FLOOD HAZARD AREAS

1% Annual Chance Flood (SFHA)

- Regulatory Floodway
- Zone A, AE, AO, AH
- Zone VE

0.2% Annual Chance Flood

- Zone X

Undetermined

- Zone D

Evacuation Route

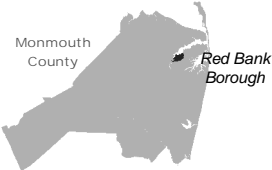
Flood Hazard Areas are a composite of Effective FIRMs (06/20/2018) and Preliminary FIRMs (01/30/2015)

This map was developed using the 10-04-18 statewide composite of parcel data published by the NJOIT-OGIS. The State of New Jersey makes great effort to provide secure, accurate, and complete data and metadata. However, portions of the data and metadata may be incorrect or not current. Any errors or omissions should be reported for investigation to OGIS.



RED BANK BOROUGH FLOOD VULNERABILITY

MONMOUTH COUNTY HAZARD MITIGATION PLAN



Building Classification

Industrial

Commercial

Apartment

Residential (four families or less)

Farm

Vacant

Civic/Public (Tax Exempt)

Unclassified

Parcel Classification

Industrial

Commercial

Apartment

Residential (four families or less)

Farm

Vacant

Civic/Public (Tax Exempt)

Unclassified

Open Space

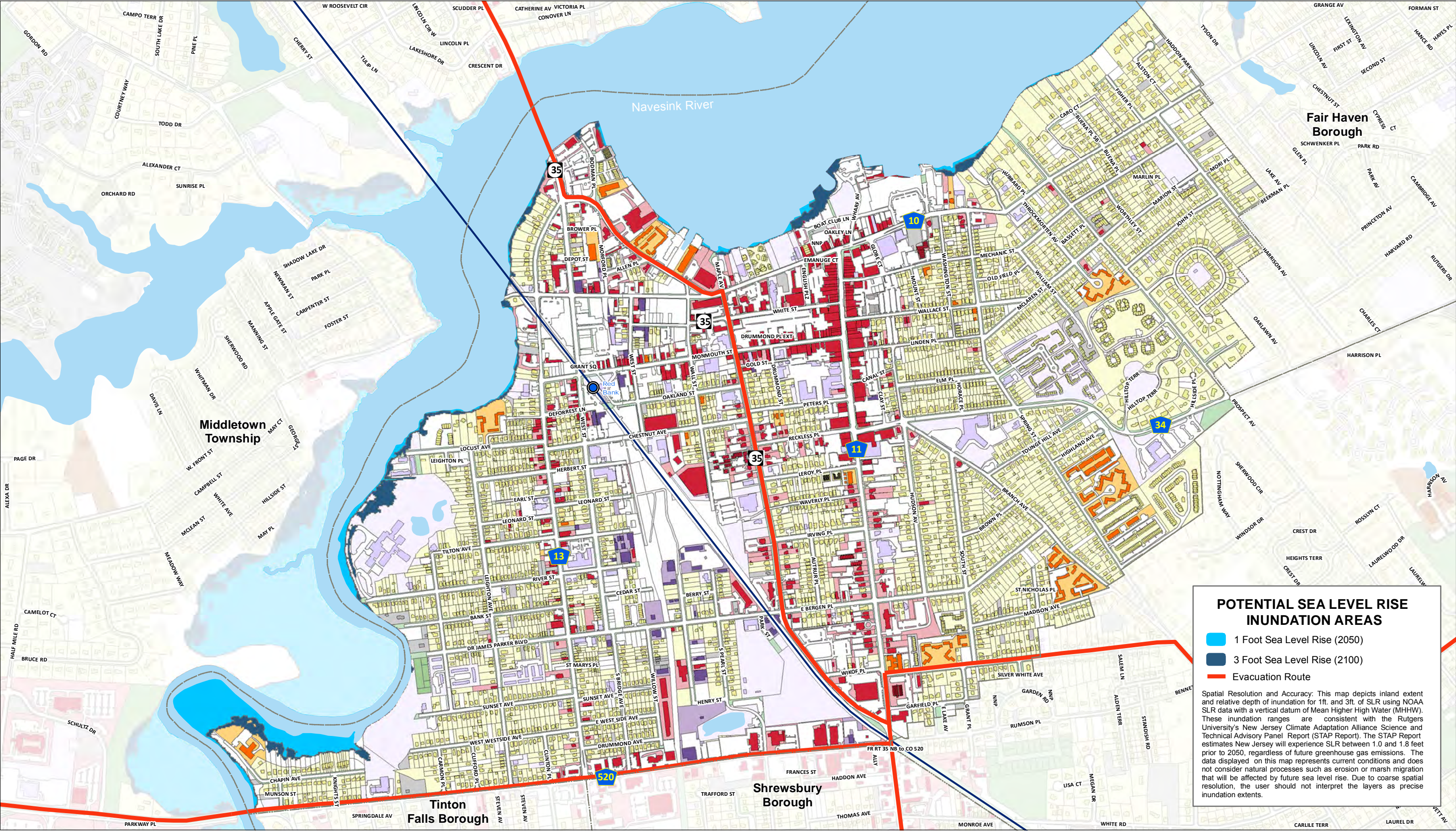
0450900

Feet

N

Source: 2014 Esri; Monmouth County; NJOIT-OGIS; NJGIN MODIV Parcel, FEMA

Projection: New Jersey State Plane, NAD 1983



**POTENTIAL SEA LEVEL RISE
INUNDATION AREAS**

1 Foot Sea Level Rise (2050)

3 Foot Sea Level Rise (2100)

Evacuation Route

Spatial Resolution and Accuracy: This map depicts inland extent and relative depth of inundation for 1ft. and 3ft. of SLR using NOAA SLR data with a vertical datum of Mean Higher High Water (MHHW). These inundation ranges are consistent with the Rutgers University's New Jersey Climate Adaptation Alliance Science and Technical Advisory Panel Report (STAP Report). The STAP Report estimates New Jersey will experience SLR between 1.0 and 1.8 feet prior to 2050, regardless of future greenhouse gas emissions. The data displayed on this map represents current conditions and does not consider natural processes such as erosion or marsh migration that will be affected by future sea level rise. Due to coarse spatial resolution, the user should not interpret the layers as precise inundation extents.

This map was developed using the 10-04-18 statewide composite of parcel data published by the NJOIT-OGIS. The State of New Jersey makes great effort to provide secure, accurate, and complete data and metadata. However, portions of the data and metadata may be incorrect or not current. Any errors or omissions should be reported for investigation to OGIS.



MEETING NOTES

Topic: Red Bank- Monmouth County HMP Meeting

Date: May 13, 2019

Time: 2:00 AM- 3:00 PM

Location: Fair Haven, NJ Police Headquarters

Attendees: Joseph, McGovern, OEM/ Police Chief

Michael McGlennon, Monmouth County Deputy OEM Coordinator

Richard Gardella, Borough Engineer

Brittany Ashman, MB Planner

Paige Kaspar, MB Planner

Drafted by: Paige Kaspar

Introductions:

- What is Hazard Mitigation?
- Did Monmouth county receive any money from the HMP plan over the last five years?
 - Did receive generators
- Matching actions with Goals
- New Hazards
- HMP Pamphlet
- Funding

Status of 2015 Mitigation Actions:

1. Mitigation Activities for At-Risk Properties→ ongoing
2. New communication tower at Towerhill Water Plant→ completed
3. Drainage Improvements in Marine Park→ completed
4. Implement Storm Management Maintenance Plan→ update wording and keep as ongoing/capability
5. Upgrade and replace inadequate and decomposing existing water and sewer systems→ update wording and keep as ongoing



2020 Mitigation Actions (NEW):

1. Relocating School is not possible. Work with the Board of Education on coming up with a plan to addressing the flooding issues. Examples of mitigation can include flood proofing or elevations.
2. Adding an additional road at the school to have an emergency access road; allowing citizens to be able to safely evacuate.
3. Work with Majestic Rehabilitation and Nursing at Red Bank to come up with a plan to address the facility's flooding issues and its location in the flood zone.

Repetitive Loss Properties:

1. 146 Bodman Place, RED BANK, NJ, 07701
2. 117 Broad St, Red Bank Borough, NJ, 07702
3. 1 Marine Park, RED BANK, NJ, 07701

Problems:

- Issues with flooding at the school. In need of adding an additional road for exiting
- Issues with flooding at 100 Chaplin Ave (Majestic Rehabilitation and Nursing Center)

Successes:

- Marine Park Concept plan includes:
 - Relocating the parking lot to the westerly area of the park, now the site of the tennis courts, which have sat unused since they were damaged by Hurricane Sandy more than six years ago.
 - In place of the existing lot would be added open green space, raised some two feet from its present elevation and rimmed by a sea wall to reduce impacts of tidal surges.
 - Raise the electric on top of the hill
- Flood walls installed at Oyster Point Hotel (146 Bodman Pl)
- Flood panels built 1ft above BFE at 40 Riverside Ave.
- Mitigation actions at Riverview Hospital, 28 Riverside Ave., 30 Hubbard Park, and the Red Bank Library
- Applying for HMGP funds to flood proof Marine Park Pump Station
- Applying for HMGP funds for three (3) emergency generators for pump stations located at East Newman Springs Road, West Newman Springs Road and River Street.
- Raising/ Rebuilding of bulkhead / living shore line application at Hubbard Park
- North Prospect Ave and Library Bulkhead Replacement Project
- Riverside Hospital in process of rebuilding/raising bulkhead

Capabilities:

- Storm Management Maintenance Plan
- Stormwater Pollution Prevention Plan
- Shade Tree Maintenance
- Emergency Management Committee
- Impervious Surface Action Study



Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update



Michael Baker
INTERNATIONAL

- Environmental Commission
- Hurricane Checklist

Vulnerable Populations:

- Properties along the Navesink River



Monmouth County
Multi-Jurisdictional Hazard Mitigation Plan Update



Michael Baker
INTERNATIONAL

Meeting: Red Bank HMP

Date: 05-13-19

Initial	Last Name	First Name	Title	Organization	Email Address
	Neumann	Laura	Borough Engineer	CME Associates	lneumann@cmeusa1.com
	McGlennon	Michael	Deputy Coordinator	MC OEM	mmcglennon@mcsonj.org
	Kaspar	Paige	Planner	MB	paige.kaspar@mbakerintl.com
	Ashman	Brittany	Planner	MB	
	Keen	Cliff	Director of Public Utilities	Red Bank	ckeene@redbanknj.org
	McConnell	Darren	Chief of Police	RBPD	dmcconnell@redbanknj.org
	Welsh	Tammy	Fire Marshal/OEM	RBCEM/FM	twelsh@redbanknj.org
	Shehady	Ziad	Administrator	Red Bank	zshehady@redbanknj.org
	Corcione	Fred	Const. OFF.	Red Bank	fcorcione@redbanknj.org

Appendix Vol I.41 Roosevelt Borough

Please find below the following documents specific to this jurisdiction that have been included as part of the plan update process.

- Summary Sheet
- Mitigation Action Table
- Mitigation Action Worksheets
- Capability Assessment
- Flood Zone Map
- Sea Level Rise Vulnerability Map
- Meeting Material



NFIP Statistics

2 *Polices In-force*

4 *Total Losses*

\$94,420 *Total Payments*

1 *Number of RL Properties*

0 *Number Mitigated
RL Properties*

0 *RL - Total Losses*

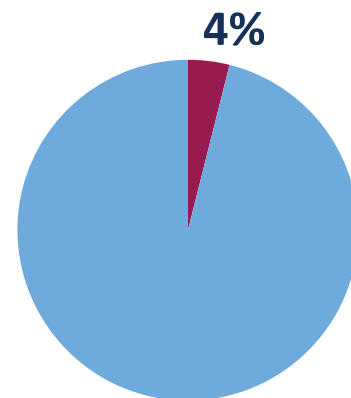
\$0 *RL - Total Paid*

0 *Number of SRL Properties*

0 *Number Mitigated SRL
Properties*

0 *SRL - Total Losses*

\$0 *SRL - Total Paid*



Percent Land Area Within SFHA

13

*Total Mitigation
Actions*

1



Education and Awareness Programs

8



Structure and Infrastructure Projects

1



Local Plans and Regulations

3



Natural Systems Protection

Critical Facilities

4 *Critical Facilities*

0 *Critical Infrastructure*

258 *Historic & Cultural Resources*



0 *SV Population At Risk (2017)*

32 *Population at Risk (2017)*

Roosevelt, Borough of

Monmouth County HMP Mitigation Action Summary

Community Action #	Action Name	Action Description	Action Category	Action Type	Hazard(s) Addressed	Priority	Responsible Party	Potential Funding Sources	Cost Estimate	Timeline	Action Status
41_01	Expansion of Fire House	The 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.		Structure and Infrastructure Project	Wildfire		Carmela Roberts, Municipal Engineer	Grant funds, if they can be obtained			Withdrawn
41_02	Expand the Brush Removal Program	Systematic removal of brush and dead trees. Collect brush more frequently and better enlist property owner cooperation. Improve collection services and public participation in action description 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.	Maintenance/Response/Recovery	Natural Systems Protection	Wildfire	Medium	DPW	Municipal budget		1 year	Ongoing
41_03	Join a New Jersey Forest Fire Service for Systematic Removal of Accumulated Brush	Participation in an anticipated program of the New Jersey Forest Fire Service for systematic action description 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.	Maintenance/Response/Recovery	Natural Systems Protection	Wildfire	Medium	Environmental Committee	Municipal budget		1 year	Ongoing
41_04	Purchase Tree Trimming Equipment for Downed Trees	The Borough needs the following tree trimming equipment: chainsaws, chipper, pull saw for high trees, and vehicle for equipment.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Flood, Extreme Wind, Lightening, Nor'easter, Hurricane and Tropical Storm, Wildfire, Winter Storm	Medium	Borough Administration, DPW	Municipal budget		1 year	New
41_05	Update Security System for Critical Facilities	Update security system for municipal properties, borough hall, and the water and sewer plants.	Maintenance/Response/Recovery	Structure and Infrastructure Project	All Hazards	Medium	Borough Administration; DPW	Homeland Security grants		1 year	New
41_06	Install a Borough-wide Alert System	Alert system for fire, intruders (terrorism), or power loss.	Maintenance/Response/Recovery	Structure and Infrastructure Project	All Hazards	Medium	Borough Administration	Homeland Security grants		1 year	New
41_07	Purchase and Install a Generator Synagogue and Roosevelt Elementary	Generator for shelter at Synagogue and school so they can be shelters.	Maintenance/Response/Recovery	Structure and Infrastructure Project	All Hazards	Medium	Borough Administration	FEMA HMA		1 year	New
41_08	Continue and Enhance the Stream Maintenance Program	Routinely remove debris from the Assunpink Creek and its Tributaries.	Maintenance/Response/Recovery	Natural Systems Protection	Flood, Extreme Wind, Lightening, Nor'easter, Hurricane and Tropical Storm, Winter Storm	Medium	Borough Administration, DPW, Environmental Committee	Municipal budget		5 + years	New

Roosevelt, Borough of

Monmouth County HMP Mitigation Action Summary

Community Action #	Action Name	Action Description	Action Category	Action Type	Hazard(s) Addressed	Priority	Responsible Party	Potential Funding Sources	Cost Estimate	Timeline	Action Status
41_09	Install Traffic Calming Measures on Highly Traveled Roads	Install traffic calming measures such as traffic cones, signs with flashing lights, and/or speed bumps and speed tables, and during peak times, increased police presence to enforce speeding regulations.	Mitigation - Risk Reduction	Local Plans and Regulations	All Hazards	High	Borough Police	DOT, NJTPA		2 years	New
41_10	Provide Outreach on Tick Control	Coordinate with Monmouth County Health Department on tick control and provide outreach to residents.	Administrative	Education and Awareness Programs	All Hazards	Low	Borough Administration, Environmental Committee	Municipal budget		1 year	New
41_11	John Deer “Gator” off Road vehicle	This would allow the town to not only navigate downed trees in the road but also get to emergencies that could happen in the 1,000+ acres of woods that surrounds Roosevelt.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Tornado	Low	Borough Administrator, First Aid	Municipal budget	\$8,000.00	1 year	New
41_12	Acquire, elevate, or relocate buildings and infrastructure in flood prone areas, with a focus on Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties	Although there are currently no RL or SRL properties in the Borough; however if in the next five years properties become RL/SRL, coordinate with residents to mitigate properties through structure elevation, demolition to open space, or other type of mitigation.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm	High	Borough and Property Owners	FEMA HMA		5 + years	New
41_13	Retrofit Critical Structures with Ignition-Resistant Materials	Install roof coverings, sheathing, flashing, skylights, roof and attic vents, eaves, and gutters that conform to ignition-resistant construction standards.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Wildfire	High	Borough	FEMA HMA		2 years	New

Monmouth County Mitigation Action Worksheets

Community Action Number: 41_01

Roosevelt, Borough of

Describing the Action

Action Name:	Expansion of Fire House
Action Category:	
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Structural Retrofitting of Existing Buildings
Action Description:	The 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.

Evaluating the Action

Hazard(s) Addressed:	Wildfire
Goals:	1, 2, 7
Risk Reduction:	Wildfires are of particular concern to Roosevelt because of wildfire risk areas both within Risk finding and surrounding the Borough, given the relatively few number of roads in and out of town for egress.
Technical:	Extending the fire house is technically feasible.
Political:	There would be overall community support for this action.
Legal:	The borough has authority to extend the firehouse, which is on property that it already owns.
Environmental:	More effective control of any wildfires would better protect the woodlands in the community.
Social:	There would be no adverse impact on any segment of the population.
Administrative Capability:	The borough has the necessary administrative capacity to have this construction done.
Local Champion:	The Roosevelt Volunteer Fire Company strongly advocates that this construction be done.
Other Community Objectives:	This construction would further both environmental protection and public safety.
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	
Local Planning Mechanism:	The Council and Planning Board will review the plans, as will the municipal engineer.
Responsible Party:	Carmela Roberts, Municipal Engineer
Likely Funding Source(s):	Grant funds, if they can be obtained
Timeline:	
Action Status:	Withdrawn
Notes:	Firehouse is gone- action no longer needed

Monmouth County Mitigation Action Worksheets

Community Action Number: 41_02

Roosevelt, Borough of

Describing the Action

Action Name:	Expand the Brush Removal Program
Action Category:	Maintenance/Response/Recovery
Action Type:	Natural Systems Protection
HMA Eligible Activity:	Miscellaneous/Other/NA
Action Description:	Systematic removal of brush and dead trees. Collect brush more frequently and better enlist property owner cooperation. Improve collection services and public participation in action description 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.

Evaluating the Action

Hazard(s) Addressed:	Wildfire
Goals:	1, 2, 3, 4, 5, 6
Risk Reduction:	Property owners dispose of brush infrequently and tend to leave it in the woods adjoining their properties.
Technical:	Collecting brush more frequently and better enlisting property owner cooperation is technically feasible.
Political:	There would be overall community support for this action.
Legal:	The borough has the necessary legal authority to have this work done and to provide information to the public.
Environmental:	More effective control of any wildfires would better protect the woodlands in the community.
Social:	There would be no adverse impact on any segment of the population. No one would have to be relocated.
Administrative Capability:	The borough has the necessary administrative ability to have more frequent collections and to provide public information.
Local Champion:	The Roosevelt Volunteer Fire Company strongly supports anything that can be done to reduce the risk of fire.
Other Community Objectives:	This brush collection and public information program would enhance public safety and better protect the environment.
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	Medium
Local Planning Mechanism:	Mayor and Council
Responsible Party:	DPW
Likely Funding Source(s):	Municipal budget
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; DPW collects brush (maintenance program) – completed; public outreach for brush collection – ongoing; brush is collected three times per year – new strategy of the Borough.

Monmouth County Mitigation Action Worksheets

Community Action Number: 41_03

Roosevelt, Borough of

Describing the Action

Action Name:	Join a New Jersey Forest Fire Service for Systematic Removal of Accumulated Brush
Action Category:	Maintenance/Response/Recovery
Action Type:	Natural Systems Protection
HMA Eligible Activity:	Miscellaneous/Other/NA
Action Description:	Participation in an anticipated program of the New Jersey Forest Fire Service for systematic action description 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.

Evaluating the Action

Hazard(s) Addressed:	Wildfire
Goals:	1, 2, 3, 4, 5, 6
Risk Reduction:	Brush and dead trees accumulate in woodlands owned by the borough, the Monmouth County Park System, NJDEP, as well as in privately-owned woodlands.
Technical:	Systematic removal of accumulated brush and dead trees is technically feasible.
Political:	There would be overall community support for this action.
Legal:	The Borough has legal authority to cooperate with the NJ Forest Fire Service in a project of this nature.
Environmental:	More effective control of any wildfires would better protect the woodlands in the community.
Social:	There would be no adverse impact on any segment of the population. No one would have to be relocated.
Administrative Capability:	The borough has the necessary administrative capacity to cooperate with the NJ Forest Fire Service on this project.
Local Champion:	Environmental Committee
Other Community Objectives:	This project would better protect both public safety and the environment.
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	Medium
Local Planning Mechanism:	Mayor and Council
Responsible Party:	Environmental Committee
Likely Funding Source(s):	Municipal budget
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the Borough is still interested in this action and once funds are available, will implement.

Monmouth County Mitigation Action Worksheets

Community Action Number: 41_04

Roosevelt, Borough of

Describing the Action

Action Name:	Purchase Tree Trimming Equipment for Downed Trees
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other/NA
Action Description:	The Borough needs the following tree trimming equipment: chainsaws, chipper, pull saw for high trees, and vehicle for equipment.

Evaluating the Action

Hazard(s) Addressed:	Flood, Extreme Wind, Lightening, Nor'easter, Hurricane and Tropical Storm, Wildfire, Winter Storm
Goals:	1, 2, 3, 5, 6, 7
Risk Reduction:	Power failure occurs due to downed trees. During Superstorm Sandy, Roosevelt's roadways were covered with live wires and downed trees. There was no way in or out of the Borough. Tree Trimming equipment will assist with removing trees that are at risk of falling prior to a storm event.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected; this action is supported by the Mayor and two Council members
Legal:	No legal issues are anticipated.
Environmental:	Impact to the environment is unknown.
Social:	Does not adversely affect any particular social group. Perceived by the public to be a good thing because it may reduce the risk of trees falling down on their property or roadway and the risk of power outages.
Administrative Capability:	Borough has sufficient capacity and experience to administer this action.
Local Champion:	OEM, Council, Mayor
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	Medium
Local Planning Mechanism:	Hazard Mitigation Plan
Responsible Party:	Borough Administration, DPW
Likely Funding Source(s):	Municipal budget
Timeline:	1 year
Action Status:	New
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 41_05

Roosevelt, Borough of

Describing the Action

Action Name:	Update Security System for Critical Facilities
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Update security system for municipal properties, borough hall, and the water and sewer plants.

Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	1, 2, 3, 7
Risk Reduction:	Borough critical facilities are vulnerable to terrorism or vandalism. Increased security will lower the risk of such hazards.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected; this action is supported by the Mayor and two Council members.
Legal:	No legal issues are anticipated.
Environmental:	No adverse environmental impact anticipated.
Social:	Does not adversely affect any particular social group. Perceived by the public to be a good thing because it reduces risk for residents.
Administrative Capability:	Borough has sufficient capacity and experience to administer this action.
Local Champion:	OEM, Council, Mayor
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	Medium
Local Planning Mechanism:	Hazard Mitigation Plan
Responsible Party:	Borough Administration; DPW
Likely Funding Source(s):	Homeland Security grants
Timeline:	1 year
Action Status:	New

Notes:

Monmouth County Mitigation Action Worksheets

Community Action Number: 41_06

Roosevelt, Borough of

Describing the Action

Action Name: Install a Borough-wide Alert System

Action Category: Maintenance/Response/Recovery

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Wildfire Mitigation

Action Description: Alert system for fire, intruders (terrorism), or power loss.

Evaluating the Action

Hazard(s) Addressed: All Hazards

Goals: 1, 2, 3, 4, 5, 7

Risk Reduction: The Borough has difficulty reaching all residents during emergency situations and disaster.

Technical: Technically feasible.

Political: Politically acceptable and encouraged in order to communicate reach all residents with crucial information.

Legal: No legal issues anticipated.

Environmental: No adverse environmental effects anticipated.

Social: Does not adversely affect any particular social group. Perceived by the public to be a good thing because the siren will keep residents alert and informed.

Administrative Capability: Borough has sufficient capacity and experience to administer this action.

Local Champion: OEM, Council, Mayor

Other Community Objectives:

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate:

Priority: Medium

Local Planning Mechanism: Hazard Mitigation Plan

Responsible Party: Borough Administration

Likely Funding Source(s): Homeland Security grants

Timeline: 1 year

Action Status: New

Notes:

Monmouth County Mitigation Action Worksheets

Community Action Number: 41_07

Roosevelt, Borough of

Describing the Action

Action Name: Purchase and Install a Generator Synagogue and Roosevelt Elementary

Action Category: Maintenance/Response/Recovery

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Generators

Action Description: Generator for shelter at Synagogue and school so they can be shelters.

Evaluating the Action

Hazard(s) Addressed: All Hazards

Goals: 1, 3, 4, 7

Risk Reduction: Due to the number of trees in the Borough, power failure is a common hazard. Having two shelters for power outages would mitigate the risk of power outages due to severe weather events.

Technical: Technically feasible.

Political: No adverse political ramifications are expected; this action is supported by the Mayor and two Council members.

Legal: No legal impediments anticipated.

Environmental: No adverse environmental impact anticipated.

Social: Does not adversely affect any particular social group. Perceived by the public to be a good thing because it supports local services during emergencies.

Administrative Capability: Borough has sufficient capacity and experience to administer this action

Local Champion: OEM, Council, Mayor

Other Community Objectives:

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate:

Priority: Medium

Local Planning Mechanism: Hazard Mitigation Plan

Responsible Party: Borough Administration

Likely Funding Source(s): FEMA HMA

Timeline: 1 year

Action Status: New

Notes:

Monmouth County Mitigation Action Worksheets

Community Action Number: 41_08

Roosevelt, Borough of

Describing the Action

Action Name:	Continue and Enhance the Stream Maintenance Program
Action Category:	Maintenance/Response/Recovery
Action Type:	Natural Systems Protection
HMA Eligible Activity:	Miscellaneous/Other/NA
Action Description:	Routinely remove debris from the Assumpink Creek and its Tributaries.

Evaluating the Action

Hazard(s) Addressed:	Flood, Extreme Wind, Lightening, Nor'easter, Hurricane and Tropical Storm, Winter Storm
Goals:	1, 2, 3, 7
Risk Reduction:	Streams flood due to downed trees, which can flood into sewer plants and cause a public health emergency.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected; this action is supported by the Mayor and two Council members.
Legal:	This action may require NJDEP or County permits.
Environmental:	No adverse environmental effects anticipated; will restore the stream to its full capacity.
Social:	Does not adversely affect any particular social group. Perceived by the public to be beneficial as clean drainage will help to reduce the impact of flooding on residents.
Administrative Capability:	Borough has sufficient capacity and experience to administer this action.
Local Champion:	OEM, Council, Mayor
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	Medium
Local Planning Mechanism:	Hazard Mitigation Plan
Responsible Party:	Borough Administration, DPW, Environmental Committee
Likely Funding Source(s):	Municipal budget
Timeline:	5 + years
Action Status:	New
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 41_09

Roosevelt, Borough of

Describing the Action

Action Name:	Install Traffic Calming Measures on Highly Traveled Roads
Action Category:	Mitigation - Risk Reduction
Action Type:	Local Plans and Regulations
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Install traffic calming measures such as traffic cones, signs with flashing lights, and/or speed bumps and speed tables, and during peak times, increased police presence to enforce speeding regulations.

Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	1, 3, 5, 7
Risk Reduction:	Automobiles are redirected off of Route 571 through the Borough and onto residential streets, which results in accidents due to lack of street lights, pedestrians, and speeding.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected; this action is supported by the Mayor and two Council members.
Legal:	No legal impediments anticipated.
Environmental:	No adverse environmental impact anticipated.
Social:	Does not adversely affect any particular social group. Perceived by the public to be a good thing because it creates safer traffic flows through the borough.
Administrative Capability:	Borough has sufficient capacity and experience to administer this action.
Local Champion:	OEM, Council, Mayor
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	High
Local Planning Mechanism:	Hazard Mitigation Plan
Responsible Party:	Borough Police
Likely Funding Source(s):	DOT, NJTPA
Timeline:	2 years
Action Status:	New

Notes:

Monmouth County Mitigation Action Worksheets

Community Action Number: 41_10

Roosevelt, Borough of

Describing the Action

Action Name:	Provide Outreach on Tick Control
Action Category:	Administrative
Action Type:	Education and Awareness Programs
HMA Eligible Activity:	Miscellaneous/Other/NA
Action Description:	Coordinate with Monmouth County Health Department on tick control and provide outreach to residents.

Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	1, 3, 4, 5, 6
Risk Reduction:	Due to the increased deer population, the risk of Lyme disease has increased.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected; this action is supported by the Mayor and two Council members.
Legal:	No legal impediments anticipated.
Environmental:	No adverse environmental impact anticipated.
Social:	Does not adversely affect any particular social group.
Administrative Capability:	Borough has sufficient capacity and experience to administer this action
Local Champion:	OEM, Council, Mayor

Other Community Objectives:

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate:	
Priority:	Low
Local Planning Mechanism:	Hazard Mitigation Plan
Responsible Party:	Borough Administration, Environmental Committee
Likely Funding Source(s):	Municipal budget
Timeline:	1 year
Action Status:	New

Notes:

Monmouth County Mitigation Action Worksheets

Community Action Number: 41_11

Roosevelt, Borough of

Describing the Action

Action Name:	John Deer "Gator" off Road vehicle
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other/NA
Action Description:	This would allow the town to not only navigate downed trees in the road but also get to emergencies that could happen in the 1,000+ acres of woods that surrounds Roosevelt.

Evaluating the Action

Hazard(s) Addressed:	Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Tornado
Goals:	1, 2, 5, 7
Risk Reduction:	
Technical:	The purchase of a new off-road vehicle is technically feasible.
Political:	There are no known political implications at this time.
Legal:	There are no anticipated legal implications.
Environmental:	There are no anticipated negative environmental implications.
Social:	This project would provide for safe passage to all members of the public who utilize roadways that could become impassable due to downed trees.
Administrative Capability:	
Local Champion:	Borough of Roosevelt OEM Deputy, Borough of Roosevelt First Aid
Other Community Objectives:	This action will also be helpful for town clean-up crews for branch and tree clean-up for forest fire prevention.
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$8,000.00
Priority:	Low
Local Planning Mechanism:	Hazard Mitigation Plan
Responsible Party:	Borough Administrator, First Aid
Likely Funding Source(s):	Municipal budget
Timeline:	1 year
Action Status:	New
Notes:	Cost could be between \$1,000 and \$8,000 depending on whether the equipment is new or used.

Monmouth County Mitigation Action Worksheets

Community Action Number: 41_12

Roosevelt, Borough of

Describing the Action

Action Name:	Acquire, elevate, or relocate buildings and infrastructure in flood prone areas, with a focus on Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Structure Elevation
Action Description:	Although there are currently no RL or SRL properties in the Borough; however if in the next five years properties become RL/SRL, coordinate with residents to mitigate properties through structure elevation, demolition to open space, or other type of mitigation.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm
Goals:	1, 2, 3, 6
Risk Reduction:	Risk of future destruction and property loss in repetitive flooded areas.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected.
Legal:	If structures are elevated, they must be built in compliance with the FEMA flood maps.
Environmental:	Positively impacts the environment by increasing the permeable surface for each homeowner property.
Social:	Does not adversely affect any particular social group. Perceived by the public to be a good thing because of repetitive nature of flooding in the project area.
Administrative Capability:	There is sufficient capacity and experience to administer this action.
Local Champion:	OEM
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	High
Local Planning Mechanism:	Hazard Mitigation Plan
Responsible Party:	Borough and Property Owners
Likely Funding Source(s):	FEMA HMA
Timeline:	5 + years
Action Status:	New
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 41_13

Roosevelt, Borough of

Describing the Action

Action Name:	Retrofit Critical Structures with Ignition-Resistant Materials
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Wildfire Mitigation
Action Description:	Install roof coverings, sheathing, flashing, skylights, roof and attic vents, eaves, and gutters that conform to ignition-resistant construction standards.

Evaluating the Action

Hazard(s) Addressed:	Wildfire
Goals:	1,2, 3, 7
Risk Reduction:	The Borough is surrounded by forest and is at risk of wildfire.
Technical:	Technically feasible.
Political:	No adverse political implications.
Legal:	No legal impediments.
Environmental:	No adverse environment impacts.
Social:	Does not adversely affect any particular social group. Perceived by the public to be a good thing because it protects shelters from wildfire.
Administrative Capability:	Borough has sufficient capacity and experience to administer this action.
Local Champion:	OEM, Fire Services

Other Community Objectives:

STAPLEE Evaluation: 12

Implementing the Action

Cost Estimate:	
Priority:	High
Local Planning Mechanism:	Hazard Mitigation Plan
Responsible Party:	Borough
Likely Funding Source(s):	FEMA HMA
Timeline:	2 years
Action Status:	New

Notes:

CAPABILITY ASSESSMENT WORKSHEET

Name: Rob Masterson

Title: OEM Coordinator

Jurisdiction: Roosevelt Borough

Organization:

Local Mitigation Capabilities are existing authorities, policies, programs, and resources that reduce hazard impacts or that could be used to implement hazard mitigation activities. Please complete the tables and questions in the worksheet as completely as possible.

Planning & Regulatory

Planning and Regulatory Capabilities are the plans, policies, codes, and ordinances that prevent and reduce the impacts of hazards. Please indicate which of the following your jurisdiction currently has in place.

Plan	Yes/No	1. What is the date/year of the plan? 2. Does the plan address hazards? 3. Does the plan identify projects to include in the mitigation strategy? 4. Can the plan be used to implement mitigation actions?
Comprehensive/Master Plan	Yes	1. 2018
Capital Improvements Plan	Yes	
Economic Development Plan	No	
Local Emergency Operations Plan	Yes	
Continuity of Operations Plan		
Post-Disaster Recovery Plan	Yes	
Transportation Plan	Yes	1. As an element of the Master Plan
Stormwater Management Plan	Yes	Updated annually
Community Wildfire Protection Plan		



CAPABILITY ASSESSMENT WORKSHEET

Other special plans (e.g., brownfields redevelopment, disaster recovery, coastal zone management, climate change adaptation)		
Building Code, Permitting, and Inspections	Yes/No	Are codes adequately enforced?
Building Code	Yes	Version/Year:
Building Code Effectiveness Grading Schedule (BCEGS) Score		Score:
Fire Department ISO rating		Rating:
Site Plan Review Requirements	Yes	
Land Use Planning and Ordinances	Yes/No	Is the ordinance an effective measure for reducing hazard impacts? Is the ordinance adequately administered and enforced?
Zoning Ordinance	Yes	
Subdivision Ordinance	Yes	
Floodplain Ordinance	Yes	Flood Damage Prevention Ordinance
Natural hazard ordinance (stormwater, steep slope, wildfire)		
Flood Insurance Rate Maps		
Acquisition of Land for Open Space and Public Recreation Uses		
Post-Disaster Recovery Ordinance	No	
Real Estate Disclose Ordinance	No	



CAPABILITY ASSESSMENT WORKSHEET

Other (ie. Special Purposes Ordinance)	No	
How can the above capabilities be expanded and improved to reduce risk?		

Administrative & Technical

Identify whether your community has the following administrative and technical capabilities. These include staff and their skills and tools that can be used for mitigation planning and to implement specific mitigation actions. For smaller jurisdictions without local staff resources, if there are public resources at the next higher-level government that can provide technical assistance, indicate so in your comments.

Administration	Yes/No	Describe capability Is coordination effective?
Planning Commission		
Mitigation Planning Committee		
Maintenance Programs to Reduce Risk (e.g., tree trimming, clearing drainage systems)	Yes	Brush collection by DPW
Mutual Aid Agreements	Yes	<ul style="list-style-type: none"> • Share fire w/ Millstone (2017 agreement) • 911/First Aid shared w/ County • JCP&L coordination of trees close to utility
Staff	Yes/No FT/PT	Is the staff full time or part time? Is staffing adequate to enforce regulations? Is the staff trained on hazards and mitigation? Is coordination between agencies and staff effective?
Chief Building Official	Yes	DCA
Floodplain Administrator	No	
Emergency Manager	Yes	PT
Community Planner	Yes	PT



CAPABILITY ASSESSMENT WORKSHEET

Civil Engineer	Yes	
Surveyor	No	
GIS Coordinator	No	
Scientists familiar with the hazards of the community	No	
Other		
Technical	Yes/No	Describe capability Has capability been used to access/mitigate risk in the past?
Warning Systems/Services (Reverse 911, outdoor warning signals)	Yes	Revers 911 Code Red Evacuation drill twice a year from school and Borough Hall
Hazard Data and Information		
Grant Writing	No	
Hazus Analysis	No	
Other		
How can the above capabilities be expanded and improved to reduce risk?		



CAPABILITY ASSESSMENT WORKSHEET

Financial

Identify whether your jurisdiction has access to or is eligible to use the following funding resources for hazard mitigation.

Funding Resource	Access / Eligibility (Yes/No)	Has the funding resource been used in the past and for what type of activities? Could the resource be used to fund future mitigation actions?
Capital Improvements Project Funding	No	
Authority to Levy Taxes for Specific Purposes	No	
Fees for Water, Sewer, Gas, or Electric Services	Yes	
Impact Fees for New Development	No	
Stormwater Utility Fee		
Incur Debt Through Private Activities	No	
Community Development Block Grant	No	
Other Federal Funding Programs	No	
State Funding Programs		
Other (e.g., withhold spending in hazard-prone areas)	Yes	Incur Debt through General Obligation
How can these capabilities be expanded and improved to reduce risk?		



CAPABILITY ASSESSMENT WORKSHEET

Education and Outreach

Identify education and outreach programs and methods already in place that could be used to implement mitigation activities and communicate hazard-related information.

Program/Organization	Yes/No	Describe program/organization and how it relates to disaster resilience and mitigation. Could the program/organization help implement future mitigation activities?
Local Citizen Groups or Non-Profit Organizations Focused on Environmental Protection, Emergency Preparedness, Access and Functional Needs Populations, etc.		
Ongoing Public Education or Information Programs (e.g., responsible water use, fire safety, household preparedness, environmental education)	Yes	The below can be found on the town's website & local paper: <ul style="list-style-type: none"> • Take care of brush • Animal control number • Water shortage conservation
Natural Disaster or Safety Related School Programs		
StormReady Certification		
Firewise Communities Certification		
Public-Private Partnership Initiatives Addressing Disaster Related Issues		
Other		
How can these capabilities be expanded and improved to reduce risk?		





Building Classification

Industrial

Farm

Commercial

Vacant

Apartment

Civic/Public (Tax Exempt)

Residential (four families or less)

Unclassified

Parcel Classification

Industrial

Farm

Commercial

Vacant

Apartment

Civic/Public (Tax Exempt)

Residential (four families or less)

Unclassified

Open Space

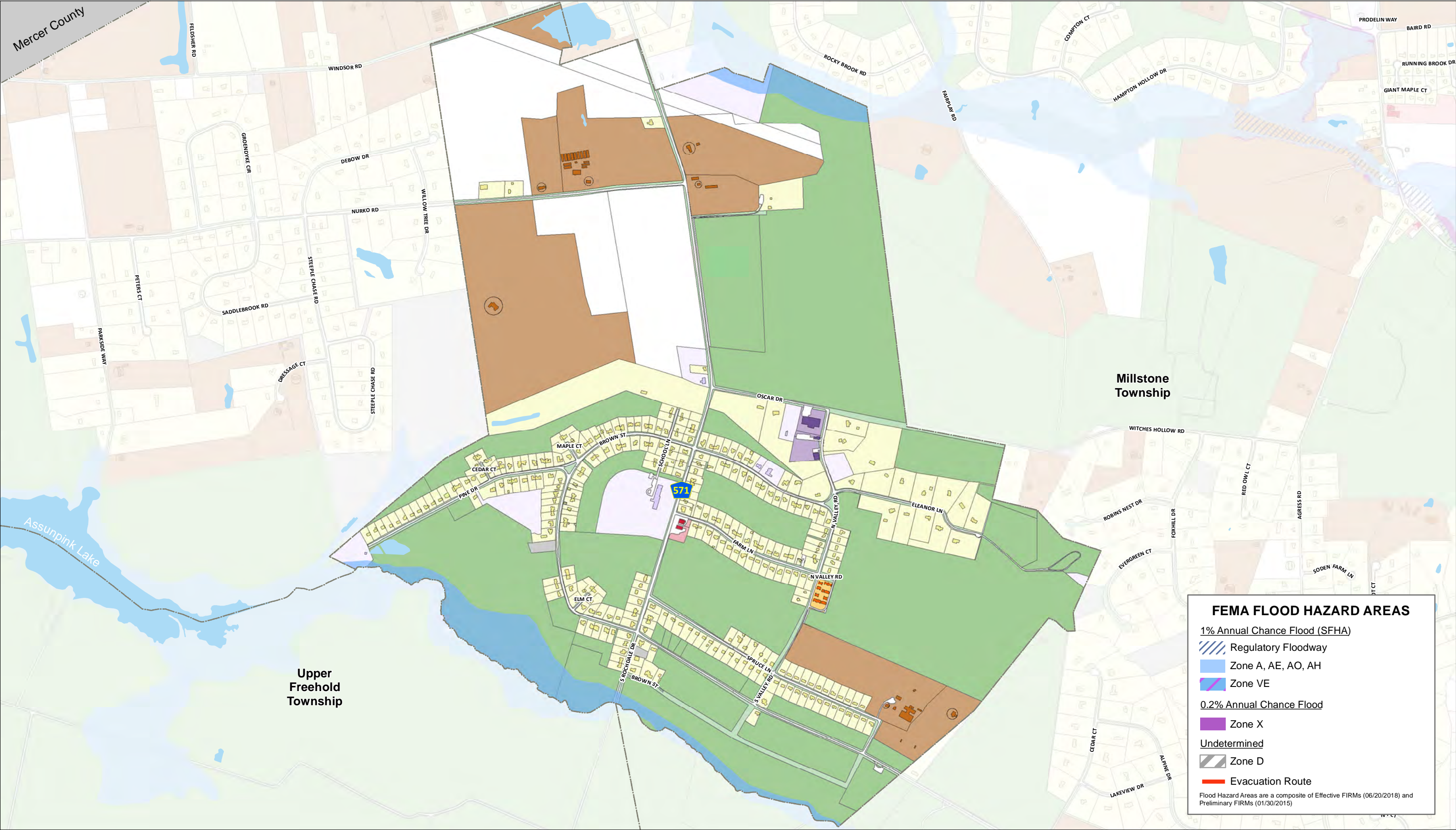
05501,100

Feet

N

Source: 2014 Esri; Monmouth County; NJOIT-OGIS; NJGIN MODIV Parcel, FEMA

Projection: New Jersey State Plane, NAD 1983



FEMA FLOOD HAZARD AREAS

1% Annual Chance Flood (SFHA)

Regulatory Floodway

Zone A, AE, AO, AH

Zone VE

0.2% Annual Chance Flood

Zone X

Undetermined

Zone D

Evacuation Route

Flood Hazard Areas are a composite of Effective FIRMs (06/20/2018) and Preliminary FIRMs (01/30/2015)



Building Classification

Industrial

Farm

Commercial

Vacant

Apartment

Civic/Public (Tax Exempt)

Residential (four families or less)

Unclassified

Parcel Classification

Industrial

Farm

Commercial

Vacant

Apartment

Civic/Public (Tax Exempt)

Residential (four families or less)

Unclassified

Open Space

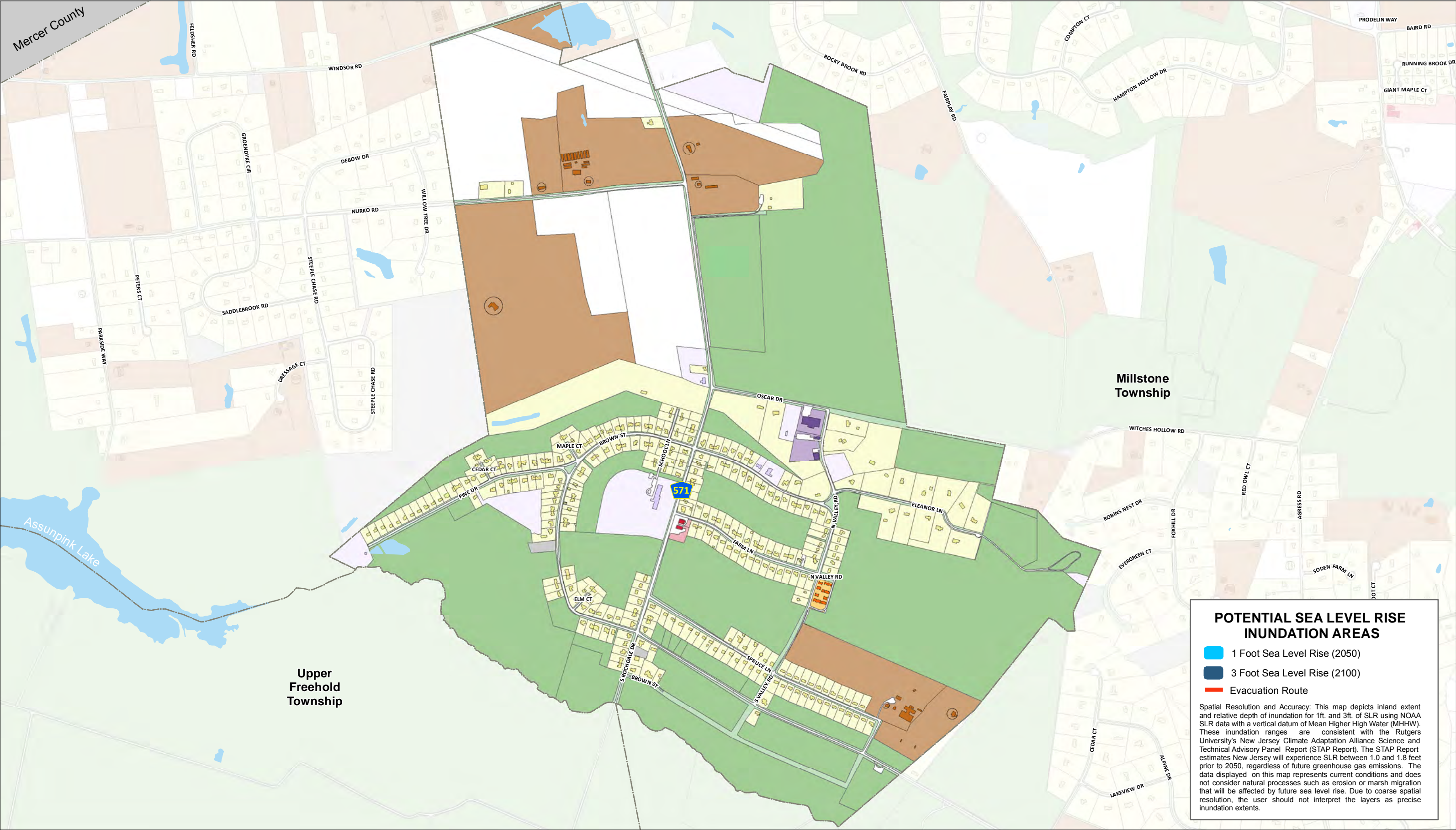
05501,100

Feet

N

Source: 2014 Esri; Monmouth County; NJOIT-OGIS; NJGIN MODIV Parcel, FEMA

Projection: New Jersey State Plane, NAD 1983





MEETING NOTES

Topic: Roosevelt- Monmouth County HMP Meeting

Date: June 19, 2019

Time: 4:00 PM- 5:00 PM

Location: 33 N. Rochdale Avenue Roosevelt, NJ

Attendees:

Michael	Hamilton	Councilman
Peggy	Malkin	Mayor
Robert	Masterson	OEM CO
Chad	Vroman	Councilman

Drafted by: Paige Kaspar

Introductions

- What is Hazard Mitigation?
- Matching actions with Goals
- New Hazards
- HMP Pamphlet
- Funding

2015 Mitigation Actions:

- Community Action 41_01 Expansion of Firehouse **Withdrawn**
 - Firehouse is gone
- Community Action 41_02 Brush Collection **Ongoing**
 - DPW collect brush (maintenance) completed
 - Public outreach for brush collection ongoing
 - Brush is collected three times per year new action
- Community Action 41_03 Join a New Jersey Forest Fire Service for systematic removal of accumulated brush - **Ongoing**
 - Responsible Party → Environmental Committee
 - Is there an existing program?



2020 Mitigation Actions (NEW):

- 4 Tree Trimming Equipment for downed trees
 - Need chainsaws, chipper, pull saw for high trees
 - Need vehicle for equipment
 - Power failures occur due to trees
 - During Sandy town was trapped with live wires due to downed trees
- 5 Update security system for municipal properties, boro hall, water, and sewer plants
- 6 Alert system for fire, intruders (terrorism), power loss
- 7 Generator for shelter at Synagogue and school so they can be shelters
- 8 Stream maintenance program streams floods downed trees which can flood into sewer plants
- 9 Traffic calming measures
 - People on streets
 - Cones
 - Flashing lights
 - Traffic control people redirected of 571 thru Roosevelt and residential streets, speeding, and not a lot of light
- 10 - Coordinate w/ County Health on tick control and provide outreach
 - Deer's have ticks w/ Lyme disease

Successes

- Municipal building, Synagogue, and commercial center are all shelters
- Brush is collected three times a year



Monmouth County
Multi-Jurisdictional Hazard Mitigation Plan Update



Michael Baker
INTERNATIONAL

Meeting: Roosevelt Boro HMP

Date: 06-19-19

Initial	Last Name	First Name	Title	Organization	Email Address
	Ashman	Brittany	Planner	MB	
	Hamilton	Michael	Councilman		
	Hicks	Robert	DEH Co.		Dennis@hicks.us
	Woman	Chad	Councilman		
	MAKKIN	PEGGY	Mayor		

Appendix Vol I.42 Rumson Borough

Please find below the following documents specific to this jurisdiction that have been included as part of the plan update process.

- Summary Sheet
- Mitigation Action Table
- Mitigation Action Worksheets
- Capability Assessment
- Flood Zone Map
- Sea Level Rise Vulnerability Map
- Meeting Material



NFIP Statistics

605 *Polices In-force*

933 *Total Losses*

\$62,375,460 *Total Payments*

87 *Number of RL Properties*

11 *Number Mitigated
RL Properties*

311 *RL - Total Losses*

\$19,061,638 *RL - Total Paid*

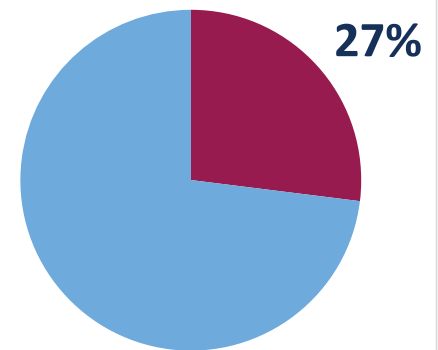


7 *Number of SRL Properties*

0 *Number Mitigated SRL
Properties*

50 *SRL - Total Losses*

\$2,488,052 *SRL - Total Paid*



Percent Land Area Within SFHA

28

*Total Mitigation
Actions*

3



Education and Awareness Programs

18



Structure and Infrastructure Projects

5



Local Plans and Regulations

2



Natural Systems Protection

Critical Facilities



14 *Critical Facilities*

0 *Critical Infrastructure*

18 *Historic & Cultural Resources*



0 *SV Population At Risk (2017)*

1,853 *Population at Risk (2017)*

Rumson, Borough of						Monmouth County HMP Mitigation Action Summary					
Community Action #	Action Name	Action Description	Action Category	Action Type	Hazard(s) Addressed	Priority	Responsible Party	Potential Funding Sources	Cost Estimate	Timeline	Action Status
42_01	32 Home Elevations	Elevate 32 homes to new FEMA FIRM maps.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge		Homeowners and/or Borough Administrator	Private, ICC or FEMA SRL	\$5,340,000.00		Completed
42_02	Construct Earthen Berm and Associated Grading above the Existing Bulkhead at Grant Ave. and Waterman Ave.	Construct an earthen berm and associated grading above the existing bulkhead at the western and eastern terminus of Grant Ave. and Waterman Ave.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Borough Administrator	FEMA Hazard Mitigation Grant, Borough funding, FEMA post disaster	\$135,000.00	1 year	Ongoing
42_03	Improvements to Eight Sanitary Sewer Pump Stations	Install emergency backup generators at pump stations (Riverside, Club Way, Thorton Way, Navesink Ave.); raise access, lids, covers, and vault chambers at pump stations (Riverside, Club Way, Thorton Way, Navesink Ave., Buna Vista, Shrewsbury Drive); install reinforced steel, rubber gasket lined storm doors at pump stations (Marina, Grant Ave.).		Structure and Infrastructure Project	Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Borough Administrator		\$187,500.00		Completed
42_04	Install Reinforced Steel, Rubber Gasket-lined Storm Doors at DPW	The storm doors will be installed to the DPW's service bays to provide greater protection from wave action and flooding to the building's structure and contents.		Structure and Infrastructure Project	Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge		Borough Administrator		\$75,000.00		Completed
42_05	Install New Elevated Bulkhead, Rehabilitate Existing Drainage Pipes, and Install a New Tide Valve at Shrewsbury Dr. & Ave of Two Rivers	Install 150 linear feet of a new elevated bulkhead, rehabilitate and replace existing drainage pipes, and install a new tide valve at the intersection of Shrewsbury Dr. & Ave of Two Rivers.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge	Medium	Borough Administrator	FEMA HMA, Borough funding, NJDOT	\$450,000.00	1 year	Ongoing
42_06	Remove and Replace Existing Underground Diesel Fuel Storage Tanks	Removal of two existing underground diesel fuel storage tanks and install two new above-ground diesel fuel storage tanks at the Borough's Department of Public Works yard.		Structure and Infrastructure Project	Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge		Borough Administrator		\$150,000.00		Completed
42_07	Purchase and Install Generator for Rumson Fair Haven Regional High School	New generator for Rumson Fair Haven Regional High School, which serves as a transfer facility during a storm event.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Extreme Temperatures, Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge	Low	Borough Administrator	FEMA HMA, Borough funding	\$500,000.00	1 year	Ongoing
42_08	Clean and Maintain the Borough's Streams and Ponds	Removal of debris and sediment accumulation in receiving waterways and creeks which impedes flood flows.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge	Medium	Public Works, County Mosquito Commission	NRCS, Borough funding	\$50,000.00	1 year	Ongoing

Rumson, Borough of

Monmouth County HMP Mitigation Action Summary

Community Action #	Action Name	Action Description	Action Category	Action Type	Hazard(s) Addressed	Priority	Responsible Party	Potential Funding Sources	Cost Estimate	Timeline	Action Status
42_09	Establish a Tree Trimming Program	Additional a tree trimming and pruning to prevent downed power lines.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Flood, Lightening, Nor'easter, Hurricane and Tropical Storm, Winter Storm	Medium	Borough Administrator	Borough funding	\$75,000.00	1 year	Ongoing
42_10	Improve the Borough's Warning System	Improve community education and awareness to emergency or urgent health and safety situations via improved internet presence, social media, Reverse911, the AM radio alerting system, and emergency siren system. The addition of electronic LED message centers (signs) at critical locations will aid in distributing information to the public. Perform an audit of the existing emergency siren coverage to confirm adequate community alerting. Develop a comprehensive program for public information that can systematically distribute hazard awareness information. The program will also promote private hazard mitigation efforts and household readiness.	Maintenance/Response/Recovery	Education and Awareness Programs	Extreme Temperatures, Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Tornado	High	Borough Administrator	Borough funding	\$100,000.00	1 year	Ongoing
42_11	Continue Adopting Floodplain Development Protection Ordinances	Rumson would like to continue to adopt Floodplain Development Protection Ordinances as the FIRMs and Sea Level Rise maps continue to be modified.	Administrative	Local Plans and Regulations	Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge	Medium	Mayor and Council, Planning Board, Zoning Board	Borough funding	\$10,000.00	1 year	Ongoing
42_12	Install Quick Connection for Portable Generator	Build quick connection system and control panel for 300KW portable generator with manual transfer	Maintenance/Response/Recovery	Structure and Infrastructure Project	Extreme Temperatures, Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	Medium	Borough Administrator	FEMA Hazard Mitigation Grant, Borough funding	\$15,000.00	1 year	Ongoing
42_13	Upgrade Community Shelter to Provide Temporary Refuge	Upgrade Bingham Hall to enhance comfort and provide an area of temporary refuge. Install permanent generator, obtain comcast or Verizon FIOS Internet/TV service, build wi-fi network within building, equipment for portable device charging stations, purchase flat panel TV on mobile cart for news broadcasts. Upgrade existing HVAC system to include air condition	Maintenance/Response/Recovery	Structure and Infrastructure Project	Extreme Temperatures, Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge	Medium	Borough Administrator	Borough funding	\$135,000.00	1 year	Ongoing
42_14	Upgrade SCADA System to Control and Monitor Critical Facilities	Upgrade SCADA system to more efficiently and effectively control and monitor critical facilities.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Extreme Temperatures, Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Tornado	High	Borough Administrator	Borough funding	\$150,000.00	1 year	Ongoing
42_15	Purchase and Install New Generator for the Oceanic Hook Ladder Fire House	Install an emergency generator at Oceanic Hook Ladder Fire House.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Extreme Temperatures, Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge	Medium	Borough Administrator	FEMA Hazard Mitigation Grant, Borough funding	\$65,000.00	1 year	Ongoing

Rumson, Borough of

Monmouth County HMP Mitigation Action Summary

Community Action #	Action Name	Action Description	Action Category	Action Type	Hazard(s) Addressed	Priority	Responsible Party	Potential Funding Sources	Cost Estimate	Timeline	Action Status
42_16	Rehabilitate and Upgrade the Existing Drainage System at Holly Tree Lane & Evergreen Drive	Rehabilitate and upgrade the existing drainage system to increase capacity and decrease flooding on Navesink Avenue between Holly Tree Lane and Black Point Road.	Mitigation - Continuity of Functional Use	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Borough Administrator	FEMA Hazard Mitigation Grant, Borough funding	\$350,000.00	1 year	Ongoing
42_17	Elevate and Reconstruct Rumson Boat Launch and Install New Bulkhead	Installation of 385 linear feet of new bulkhead, reconstruction of the Rumson Boat Launch, elevating the property, and improvements to the drainage system will aid in stabilizing the eroding shoreline, reduce coastal flooding impacts, and improve public access to the Navesink River.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Borough Administrator	FEMA Hazard Mitigation Grant, Borough funding	\$750,000.00	1 year	Ongoing
42_18	Create an Automated Zoning and Construction Permit System	Create an automated and expedited system for zoning and construction permit administration.	Administrative	Local Plans and Regulations	Extreme Temperatures, Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Tornado		Borough Administrator		\$50,000.00		Completed
42_19	Revise Rumson Emergency Operations Plan	Prepare an update to the Emergency Operations Plan for the Borough of Rumson.		Local Plans and Regulations	Extreme Temperatures, Flood, Extreme Wind, Lightening, Nor'easter, Storm Surge, Tornado		Borough Administrator		\$26,000.00		Completed
42_20	Enter NFIP's CRS Program	Provide planning services to enter the Borough of Rumson into the NFIP Community Rating System for reduced flood insurance rates.	Administrative	Education and Awareness Programs	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Borough Administrator	Borough budget for staffing/consultants	\$50,000.00	1 year	Ongoing
42_21	Develop GIS Database/Inventory of Borough Owned Infrastructure	Develop GIS Database/Inventory of Borough owned infrastructure.		Local Plans and Regulations	All Hazards		Borough Administrator		\$100,000.00		Completed
42_22	Expand the GIS Database to Digitize Records	Digitize building records, capital improvement projects and plans, roadway plans, tax records, improvement plans, zoning approvals and certificates.	Administrative	Local Plans and Regulations	All Hazards	High	Borough of Rumson	Borough funding	\$100,000.00	1 year	New
42_23	Obtain High Resolution Aerials of SFHAs	Obtain high resolution aerials of Special Flood Hazard Area.	Administrative	Natural Systems Protection	Flood	Low	Borough Administrator	Borough funding	\$1,000.00	1 year	New
42_24	Initiate Regional Community Resiliency Discussions with Neighboring Communities	Regional resiliency discussion on sea level rise with neighboring at risk communities.	Administrative	Education and Awareness Programs	Extreme Temperatures, Flood, Wave Action, Coastal Erosion, Nor'easter, Hurricane and Tropical Storm, Storm	Medium	Borough Administrator	Borough and County budget		3 years	New

Rumson, Borough of

Monmouth County HMP Mitigation Action Summary

Community Action #	Action Name	Action Description	Action Category	Action Type	Hazard(s) Addressed	Priority	Responsible Party	Potential Funding Sources	Cost Estimate	Timeline	Action Status
42_25	Elevate or Floodproof Oyster Bay Drive	Elevating Oyster Bay Drive above the base flood elevation to maintain dry access.	Mitigation - Continuity of Functional Use	Natural Systems Protection	Flood, Wave Action, Coastal Erosion, Nor'easter, Hurricane and Tropical Storm, Storm Surge	Medium	Borough Administrator	FEMA Hazard Mitigation Grant, Borough funding		3 years	New
42_26	Install Lightning Protection for Critical Borough Facilities	Install lightning protection to Borough structures based upon most vulnerable and critical facilities. This action typically include the installation of lightning rods and grounding components to buildings and installation of surge protection devices to critical electronic equipment.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Lightening, Hurricane and Tropical Storm	Medium	Borough Administrator	Borough funding	\$100,000.00	1 year	New
42_27	Install Surveillance Cameras at Critical Facilities	Install surveillance cameras to monitor critical facilities for natural and human based hazards. During natural hazards, flood proofed structures (Sanitary Sewer Pump Stations) can be safely monitored from remote locations. Human-based hazards can be monitored by Rumson Police Department.	Maintenance/Response/Recovery	Structure and Infrastructure Project	All Hazards	Medium	Borough Administrator	Homeland Security grants, Borough funding	\$80,000.00	1 year	New
42_28	Acquire, elevate, or relocate buildings and infrastructure in flood prone areas, with a focus on Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties	Coordinate with residents to mitigate RL/SRL properties through structure elevation, demolition to open space, or other type of mitigation.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm	High	Borough and Property Owners	FEMA HMA		5 + years	New

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_01

Rumson, Borough of

Describing the Action

Action Name:	32 Home Elevations
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Structure Elevation
Action Description:	Elevate 32 homes to new FEMA FIRM maps.

Evaluating the Action

Hazard(s) Addressed:	Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	1, 2, 3, 5, 6
Risk Reduction:	Roughly half of Rumson lies within mapped storm surge hazard areas. Superstorm 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.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by the Mayor and Borough Council
Legal:	The community has the legal authority to implement this project.
Environmental:	There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations.
Social:	Property owners may need to relocate while the home raising is implemented.
Administrative Capability:	The community does have the personnel and homeowners will maintain projects.
Local Champion:	Borough Council and the Mayor
Other Community Objectives:	Capital Improvements
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$5,340,000.00
Priority:	
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents, additionally current code r
Responsible Party:	Homeowners and/or Borough Administrator
Likely Funding Source(s):	Private, ICC or FEMA SRL
Timeline:	
Action Status:	Completed
Notes:	150 homes have been elevated since Superstorm Sandy.

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_02

Rumson, Borough of

Describing the Action

Action Name:	Construct Earthen Berm and Associated Grading above the Existing Bulkhead at Grant Ave. and Waterman Ave.
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Localized Flood Risk Reduction Projects
Action Description:	Construct an earthen berm and associated grading above the existing bulkhead at the western and eastern terminus of Grant Ave. and Waterman Ave.

Evaluating the Action

Hazard(s) Addressed:	Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	1, 2, 3, 5, 6
Risk Reduction:	It is crucial to keep Grant Ave. and Waterman Ave. accessible during storm events for possible evacuation and emergency services.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by the Mayor and Borough Council
Legal:	The community has the legal authority to implement this project.
Environmental:	There are no negative environmental impacts caused by this project and it will comply.
Social:	There are no negative social impacts from this project.
Administrative Capability:	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.
Local Champion:	Borough Council and the Mayor
Other Community Objectives:	Capital Improvements
STAPLEE Evaluation:	10

Implementing the Action

Cost Estimate:	\$135,000.00
Priority:	High
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents.
Responsible Party:	Borough Administrator
Likely Funding Source(s):	FEMA Hazard Mitigation Grant, Borough funding, FEMA post disaster
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; Borough installed a new elevated bulkhead and a new tide valve at the western terminus of Washington Avenue and installed a new tide valve 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.

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_03

Rumson, Borough of

Describing the Action

Action Name:	Improvements to Eight Sanitary Sewer Pump Stations
Action Category:	
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Mitigation Reconstruction
Action Description:	Install emergency backup generators at pump stations (Riverside, Club Way, Thorton Way, Navesink Ave.); raise access, lids, covers, and vault chambers at pump stations (Riverside, Club Way, Thorton Way, Navesink Ave., Buna Vista, Shrewsbury Drive); install reinforced steel, rubber gasket lined storm doors at pump stations (Marina, Grant Ave.).

Evaluating the Action

Hazard(s) Addressed:	Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	1, 3, 5, 7
Risk Reduction:	These pump stations were inundated during Superstorm Sandy and need to remain in operation to protect the public health of the Borough.
Technical:	This mitigation is technically feasible
Political:	This project was advised by the Mayor and Borough Council
Legal:	The community has the legal authority to implement this project.
Environmental:	There are no negative environmental impacts caused by this project and it will comply with all federal state and local regulations
Social:	There are no social impacts from this project on the community
Administrative Capability:	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
Local Champion:	Borough Council and the Mayor
Other Community Objectives:	Capital Improvements
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$187,500.00
Priority:	High
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory document
Responsible Party:	Borough Administrator
Likely Funding Source(s):	
Timeline:	
Action Status:	Completed
Notes:	Completed with FEMA funding after Superstorm Sandy. The Borough was awarded HMGP funding of \$282,959 for Pump Station Generators and SCADA Alarm Systems. The Department of Public Works Building and Marina Pump Station, Main Pump Station (AKA Grant Ave. Pump Station), Navesink Pump Station, Avenue of 2 Rivers South Pump Station, Thornton Way Pump Station, Buena Vista Pump Station, Club Way Pump Station, and Riverside Dr Pump Station also received FEMA 406 Public Assistance funding for an in-kind generator after Sandy.

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_04

Rumson, Borough of

Describing the Action

Action Name:	Install Reinforced Steel, Rubber Gasket-lined Storm Doors at DPW
Action Category:	
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Structural Retrofitting of Existing Buildings
Action Description:	The storm doors will be installed to the DPW's service bays to provide greater protection from wave action and flooding to the building's structure and contents.

Evaluating the Action

Hazard(s) Addressed:	Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 7
Risk Reduction:	The DPW is crucial for emergency repairs during storm events and ensuring this building is accessible for emergency workers.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by the Mayor and Borough Council
Legal:	The community has the legal authority to implement this project.
Environmental:	There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations.
Social:	There are no social impacts from this project on the community.
Administrative Capability:	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.
Local Champion:	Borough Council and the Mayor
Other Community Objectives:	Capital Improvements
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$75,000.00
Priority:	
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents.
Responsible Party:	Borough Administrator
Likely Funding Source(s):	
Timeline:	
Action Status:	Completed
Notes:	The Borough had 4' of water throughout the garage and lost hundreds of thousands of dollars of equipment and tools. The Borough wouldn't raise the building, so they installed the flood doors. They have a set for every overhead door, personnel door, and window panels which make the building floodproof. DPW can deploy the doors within a couple hours to DPW and the two pump stations. This was a HMGP project completed post Sandy.

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_05

Rumson, Borough of

Describing the Action

Action Name:	Install New Elevated Bulkhead, Rehabilitate Existing Drainage Pipes, and Install a New Tide Valve at Shrewsbury Dr. & Ave of Two Rivers
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Mitigation Reconstruction
Action Description:	Install 150 linear feet of a new elevated bulkhead, rehabilitate and replace existing drainage pipes, and install a new tide valve at the intersection of Shrewsbury Dr. & Ave of Two Rivers.

Evaluating the Action

Hazard(s) Addressed:	Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 5
Risk Reduction:	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.
Technical:	This action is technically feasible.
Political:	This project was advised by the Mayor and Borough Council
Legal:	The community has the legal authority to implement this project.
Environmental:	There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations.
Social:	During road construction the intersection may be inaccessible.
Administrative Capability:	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.
Local Champion:	Borough Council and the Mayor
Other Community Objectives:	Capital improvements
STAPLEE Evaluation:	10

Implementing the Action

Cost Estimate:	\$450,000.00
Priority:	Medium
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents.
Responsible Party:	Borough Administrator
Likely Funding Source(s):	FEMA HMA, Borough funding, NJDOT
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the Borough is still interested in this action and once funds are available, will implement.

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_06

Rumson, Borough of

Describing the Action

Action Name:	Remove and Replace Existing Underground Diesel Fuel Storage Tanks
Action Category:	
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Removal of two existing underground diesel fuel storage tanks and install two new above-ground diesel fuel storage tanks at the Borough's Department of Public Works yard.

Evaluating the Action

Hazard(s) Addressed:	Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	1, 3
Risk Reduction:	The storage tanks were at risk of contamination.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by the Mayor and Borough Council
Legal:	The community has the legal authority to implement this project.
Environmental:	There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations
Social:	There are no social impacts from this project on the community
Administrative Capability:	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.
Local Champion:	Borough Council and the Mayor
Other Community Objectives:	Capital Improvements
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$150,000.00
Priority:	
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents.
Responsible Party:	Borough Administrator
Likely Funding Source(s):	
Timeline:	
Action Status:	Completed
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_07

Rumson, Borough of

Describing the Action

Action Name:	Purchase and Install Generator for Rumson Fair Haven Regional High School
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Generators
Action Description:	New generator for Rumson Fair Haven Regional High School, which serves as a transfer facility during a storm event.

Evaluating the Action

Hazard(s) Addressed:	Extreme Temperatures, Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	1, 3, 7
Risk Reduction:	Rumson Fair Haven Regional High School lost power during Superstorm Sandy and serves as a transfer facility during a storm event.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by the Mayor and Borough Council
Legal:	The community has the legal authority to implement this project.
Environmental:	There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations.
Social:	There are no social impacts from this project on the community.
Administrative Capability:	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.
Local Champion:	Borough Council and the Mayor
Other Community Objectives:	Capital Improvements
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$500,000.00
Priority:	Low
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents.
Responsible Party:	Borough Administrator
Likely Funding Source(s):	FEMA HMA, Borough funding
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the Borough is researching funding opportunities to move this action forward.

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_08

Rumson, Borough of

Describing the Action

Action Name:	Clean and Maintain the Borough's Streams and Ponds
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Floodplain and Stream Restoration
Action Description:	Removal of debris and sediment accumulation in receiving waterways and creeks which impedes flood flows.

Evaluating the Action

Hazard(s) Addressed:	Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	1, 2, 3, 5, 6
Risk Reduction:	The cleaning and maintenance of streams and ponds is a priority for the Borough in order to ensure proper drainage of flood waters and to reduce flooding events.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by the Mayor and Borough Council
Legal:	The community has the legal authority to implement this project.
Environmental:	There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations.
Social:	There are no negative social effects going forward with this project.
Administrative Capability:	The community does have the personnel and administrative capability to maintain it.
Local Champion:	Borough Council and the Mayor
Other Community Objectives:	Capital Improvements
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$50,000.00
Priority:	Medium
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents.
Responsible Party:	Public Works, County Mosquito Commission
Likely Funding Source(s):	NRCS, Borough funding
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the Borough is still interested in this action and once funds are available, will implement.

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_09

Rumson, Borough of

Describing the Action

Action Name:	Establish a Tree Trimming Program
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Additional a tree trimming and pruning to prevent downed power lines.

Evaluating the Action

Hazard(s) Addressed:	Flood, Lightening, Nor'easter, Hurricane and Tropical Storm, Winter Storm
Goals:	1, 2, 3, 5, 6, 7
Risk Reduction:	Downed trees on power lines contribute to power outages during severe storms with high winds.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by the Mayor and Borough Council
Legal:	The community has the legal authority to implement this project.
Environmental:	There are potential environmental impacts caused by this project, these will be considered and it will comply with all federal, state, and local regulations.
Social:	There are no social impacts from this project on the community.
Administrative Capability:	The community does have the personnel and administrative capability implement this action as well as maintain it.
Local Champion:	Borough Council and the Mayor
Other Community Objectives:	Capital Improvements
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$75,000.00
Priority:	Medium
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents.
Responsible Party:	Borough Administrator
Likely Funding Source(s):	Borough funding
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the Borough is still interested in this action and once funds are available, will implement.

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_10

Rumson, Borough of

Describing the Action

Action Name:	Improve the Borough's Warning System
Action Category:	Maintenance/Response/Recovery
Action Type:	Education and Awareness Programs
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Improve community education and awareness to emergency or urgent health and safety situations via improved internet presence, social media, Reverse911, the AM radio alerting system, and emergency siren system. The addition of electronic LED message centers (signs) at critical locations will aid in distributing information to the public. Perform an audit of the existing emergency siren coverage to confirm adequate community alerting. Develop a comprehensive program for public information that can systematically distribute hazard awareness information. The program will also promote private hazard mitigation efforts and household readiness.

Evaluating the Action

Hazard(s) Addressed:	Extreme Temperatures, Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Tornado
Goals:	3, 4, 7
Risk Reduction:	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.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by the Mayor and Borough Council
Legal:	The community has the legal authority to implement this project.
Environmental:	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.
Social:	There are no social impacts from this project on the community.
Administrative Capability:	The community does have the personnel and administrative capability implement this action as well as maintain it.
Local Champion:	Borough Council and the Mayor
Other Community Objectives:	Capital Improvements
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$100,000.00
Priority:	High
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents
Responsible Party:	Borough Administrator
Likely Funding Source(s):	Borough funding
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing; Recent personnel hire with expertise in public communications and media planning. The Borough is taking proactive steps towards improving on their existing outreach and notification capabilities. The Borough is also investigating digital message center options for installation at highly visible public locations. Cost: \$60k initial, \$50k annual cost

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_11

Rumson, Borough of

Describing the Action

Action Name:	Continue Adopting Floodplain Development Protection Ordinances
Action Category:	Administrative
Action Type:	Local Plans and Regulations
HMA Eligible Activity:	Post-Disaster Code Enforcement
Action Description:	Rumson would like to continue to adopt Floodplain Development Protection Ordinances as the FIRMs and Sea Level Rise maps continue to be modified.

Evaluating the Action

Hazard(s) Addressed:	Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	1, 2, 3, 5
Risk Reduction:	Superstorm 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. Floodplain Development Protection Ordinances protect life and property from developing in high-risk flood areas.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by the Mayor and Borough Council
Legal:	The community has the legal authority to implement this project.
Environmental:	There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations.
Social:	Property owners may need to relocate while the home raising is implemented.
Administrative Capability:	The community does have the personnel and homeowners will maintain project.
Local Champion:	Borough Council and the Mayor
Other Community Objectives:	Capital Improvements
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$10,000.00
Priority:	Medium
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents.
Responsible Party:	Mayor and Council, Planning Board, Zoning Board
Likely Funding Source(s):	Borough funding
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the Borough is still interested in this action and once funds are available, will implement.

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_12

Rumson, Borough of

Describing the Action

Action Name:	Install Quick Connection for Portable Generator
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Generators
Action Description:	Build quick connection system and control panel for 300KW portable generator with manual transfer

Evaluating the Action

Hazard(s) Addressed:	Extreme Temperatures, Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	3, 5, 6, 7
Risk Reduction:	Much of the Borough lost power during Superstorm Sandy, including Borough Hall.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by the Mayor and Borough Council
Legal:	The community has the legal authority to implement this project.
Environmental:	There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations.
Social:	There are no social impacts from this project on the community.
Administrative Capability:	The community does have the personnel and administrative capability implement this action as well as maintain it.
Local Champion:	Borough Council and the Mayor
Other Community Objectives:	Capital Improvements
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$15,000.00
Priority:	Medium
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents.
Responsible Party:	Borough Administrator
Likely Funding Source(s):	FEMA Hazard Mitigation Grant, Borough funding
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the Borough is researching funding opportunities to move this action forward.

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_13

Rumson, Borough of

Describing the Action

Action Name:	Upgrade Community Shelter to Provide Temporary Refuge
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Upgrade Bingham Hall to enhance comfort and provide an area of temporary refuge. Install permanent generator, obtain comcast or Verizon FIOS Internet/TV service, build wi-fi network within building, equipment for portable device charging stations, purchase flat panel TV on mobile cart for news broadcasts. Upgrade existing HVAC system to include air condition

Evaluating the Action

Hazard(s) Addressed:	Extreme Temperatures, Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	1, 7
Risk Reduction:	Much of the Borough lost power during Superstorm Sandy.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by the Mayor and Borough Council
Legal:	The community has the legal authority to implement this project.
Environmental:	There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations.
Social:	There are no social impacts from this project on the community.
Administrative Capability:	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.
Local Champion:	Borough Council and the Mayor
Other Community Objectives:	Capital Improvements
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$135,000.00
Priority:	Medium
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents.
Responsible Party:	Borough Administrator
Likely Funding Source(s):	Borough funding
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; Borough recently procured internet provider service to Bingham Hall. The Borough is researching funding and shared service opportunities to move this action forward. HVAC upgrade must preserve the significance of the historic structure.

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_14

Rumson, Borough of

Describing the Action

Action Name:	Upgrade SCADA System to Control and Monitor Critical Facilities
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Upgrade SCADA system to more efficiently and effectively control and monitor critical facilities.

Evaluating the Action

Hazard(s) Addressed:	Extreme Temperatures, Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Tornado
Goals:	3, 4, 6, 7
Risk Reduction:	The SCADA system ensures that critical facilities proper function and quickly identify potential risks.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by the Mayor and Borough Council
Legal:	The community has the legal authority to implement this project.
Environmental:	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.
Social:	There are no social impacts from this project on the community.
Administrative Capability:	The community does have the personnel and administrative capability implement this action as well as maintain it.
Local Champion:	Borough Council and the Mayor
Other Community Objectives:	Capital Improvements
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$150,000.00
Priority:	High
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents.
Responsible Party:	Borough Administrator
Likely Funding Source(s):	Borough funding
Timeline:	1 year
Action Status:	Ongoing
Notes:	SCADA system has been completed and fully operational at 11 sanitary sewer pump stations. The system has proven effective and should be implemented in 10 additional Borough facilities (Bingham Hall, 2 Firehouses, EMS, etc.)

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_15

Rumson, Borough of

Describing the Action

Action Name: Purchase and Install New Generator for the Oceanic Hook Ladder Fire House

Action Category: Maintenance/Response/Recovery

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Generators

Action Description: Install an emergency generator at Oceanic Hook Ladder Fire House.

Evaluating the Action

Hazard(s) Addressed: Extreme Temperatures, Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge

Goals: 3, 5, 6, 7

Risk Reduction: Heavy wind and rainfall caused power loss at the Oceanic Hook Ladder Fire House during Sandy.

Technical: This mitigation is technically feasible.

Political: This project was advised by the Mayor and Borough Council

Legal: The community has the legal authority to implement this project.

Environmental: There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations.

Social: There are no social impacts from this project on the community

Administrative Capability: 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.

Local Champion: Borough Council and the Mayor

Other Community Objectives: Capital Improvements

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$65,000.00

Priority: Medium

Local Planning Mechanism: Mitigation activities will be implemented according to all governing regulatory documents.

Responsible Party: Borough Administrator

Likely Funding Source(s): FEMA Hazard Mitigation Grant, Borough funding

Timeline: 1 year

Action Status: Ongoing

Notes: Ongoing 2015 action; the Borough is researching funding opportunities to move this action forward.

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_16

Rumson, Borough of

Describing the Action

Action Name:	Rehabilitate and Upgrade the Existing Drainage System at Holly Tree Lane & Evergreen Drive
Action Category:	Mitigation - Continuity of Functional Use
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Infrastructure Retrofit
Action Description:	Rehabilitate and upgrade the existing drainage system to increase capacity and decrease flooding on Navesink Avenue between Holly Tree Lane and Black Point Road.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	1, 2, 3, 5, 6
Risk Reduction:	Superstorm Sandy's storm surge on the Shrewsbury and Navesink Rivers inundated a large area of Rumson that was not previously recognized by local residents as particularly susceptible to surge.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by the Mayor and Borough Council
Legal:	The community has the legal authority to implement this project.
Environmental:	There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations.
Social:	During road construction the roadway may be temporary inaccessible.
Administrative Capability:	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.
Local Champion:	Borough Council and the Mayor
Other Community Objectives:	Capital Improvements
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$350,000.00
Priority:	High
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents.
Responsible Party:	Borough Administrator
Likely Funding Source(s):	FEMA Hazard Mitigation Grant, Borough funding
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the Borough has procured on-the-ground survey of existing conditions and topography to begin the project design. Funding opportunities must be evaluated

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_17

Rumson, Borough of

Describing the Action

Action Name:	Elevate and Reconstruct Rumson Boat Launch and Install New Bulkhead
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Localized Flood Risk Reduction Projects
Action Description:	Installation of 385 linear feet of new bulkhead, reconstruction of the Rumson Boat Launch, elevating the property, and improvements to the drainage system will aid in stabilizing the eroding shoreline, reduce coastal flooding impacts, and improve public access to the Navesink River.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 6, 7
Risk Reduction:	This is the lowest elevation of the Borough. The shore along the boat launch endured significant erosion during Superstorm Sandy and is now causing drainage issues on site.
Technical:	This action is technically feasible.
Political:	This project was advised by the Mayor and Borough Council
Legal:	The community has the legal authority to implement this project.
Environmental:	There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations.
Social:	There are no social impacts from this project on the community.
Administrative Capability:	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.
Local Champion:	Borough Council and the Mayor
Other Community Objectives:	Capital Improvements
STAPLEE Evaluation:	11

Implementing the Action

Cost Estimate:	\$750,000.00
Priority:	High
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents
Responsible Party:	Borough Administrator
Likely Funding Source(s):	FEMA Hazard Mitigation Grant, Borough funding
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the Borough is developing conceptual plans for use in budgeting, project partnership development, and researching potential funding sources, such as Monmouth County Open Space and Recreation Grants. The Rumson Marina Boat Ramp/Docks also received FFMA 406 Public Assistance funding for repairs post-Sandy.

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_18

Rumson, Borough of

Describing the Action

Action Name:	Create an Automated Zoning and Construction Permit System
Action Category:	Administrative
Action Type:	Local Plans and Regulations
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Create an automated and expedited system for zoning and construction permit administration.

Evaluating the Action

Hazard(s) Addressed:	Extreme Temperatures, Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Tornado
Goals:	3, 4, 8
Risk Reduction:	After Superstorm 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.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by the Mayor and Borough Council
Legal:	The community has the legal authority to implement this project.
Environmental:	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.
Social:	There are no social impacts from this project on the community.
Administrative Capability:	The community does have the personnel and administrative capability implement this action as well as maintain it.
Local Champion:	Borough Council and the Mayor
Other Community Objectives:	Capital Improvements
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$50,000.00
Priority:	
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents.
Responsible Party:	Borough Administrator
Likely Funding Source(s):	
Timeline:	
Action Status:	Completed
Notes:	Action is such a success, the Borough now performs this action for Red Bank and Little Silver too.

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_19

Rumson, Borough of

Describing the Action

Action Name: Revise Rumson Emergency Operations Plan

Action Category:

Action Type: Local Plans and Regulations

HMA Eligible Activity: Miscellaneous/Other

Action Description: Prepare an update to the Emergency Operations Plan for the Borough of Rumson.

Evaluating the Action

Hazard(s) Addressed: Extreme Temperatures, Flood, Extreme Wind, Lightening, Nor'easter, Storm Surge, Tornado

Goals: 1, 2, 3, 4, 5, 6, 7

Risk Reduction: Hurricane Sandy was a storm far more devastating than ever previously planned for within the Borough. Revisions to the current plan are necessary to incorporate updated emergency response planning.

Technical: This mitigation is technically feasible.

Political: This project was advised by the Mayor and Borough Council

Legal: The community has the legal authority to implement this project.

Environmental: 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.

Social: There are no social impacts from this project on the community.

Administrative Capability: The community does have the personnel and administrative capability implement this action as well as maintain it.

Local Champion: Borough Council and the Mayor

Other Community Objectives: Capital Improvements

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$26,000.00

Priority:

Local Planning Mechanism: Mitigation activities will be implemented according to all governing regulatory documents.

Responsible Party: Borough Administrator

Likely Funding Source(s):

Timeline:

Action Status: Completed

Notes: Will update plan in the next year.

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_20

Rumson, Borough of

Describing the Action

Action Name:	Enter NFIP's CRS Program
Action Category:	Administrative
Action Type:	Education and Awareness Programs
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Provide planning services to enter the Borough of Rumson into the NFIP Community Rating System for reduced flood insurance rates.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	8
Risk Reduction:	Superstorm Sandy devastated shore towns in New Jersey sparking the need for flood insurance across the state, however, flood insurance is extremely costly.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by the Mayor and Borough Council
Legal:	The community has the legal authority to implement this project.
Environmental:	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.
Social:	There are no social impacts from this project on the community.
Administrative Capability:	The community does have the personnel and administrative capability implement this action as well as maintain it.
Local Champion:	Borough Council and the Mayor
Other Community Objectives:	Capital Improvements
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$50,000.00
Priority:	High
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents.
Responsible Party:	Borough Administrator
Likely Funding Source(s):	Borough budget for staffing/consultants
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the Borough is working with FEMA, NJDEP, and Monmouth County CRS User Group to enter into the CRS program. The Borough has retained the professional services of T&M Associates to assist in document preparation for the next earliest enrollment period.

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_21

Rumson, Borough of

Describing the Action

Action Name: Develop GIS Database/Inventory of Borough Owned Infrastructure

Action Category:

Action Type: Local Plans and Regulations

HMA Eligible Activity: Advance Assistance

Action Description: Develop GIS Database/Inventory of Borough owned infrastructure.

Evaluating the Action

Hazard(s) Addressed: All Hazards

Goals: 2, 4, 5, 7

Risk Reduction: 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.

Technical: This mitigation is technically feasible.

Political: This project was advised by the Mayor and Borough Council

Legal: The community has the legal authority to implement this project.

Environmental: 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.

Social: There are no social impacts from this project on the community.

Administrative Capability: The community does have the personnel and administrative capability implement this action as well as maintain it.

Local Champion: Borough Council and the Mayor

Other Community Objectives: Capital Improvements

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$100,000.00

Priority:

Local Planning Mechanism: Mitigation activities will be implemented according to all governing regulatory documents.

Responsible Party: Borough Administrator

Likely Funding Source(s):

Timeline:

Action Status: Completed

Notes:

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_22

Rumson, Borough of

Describing the Action

Action Name:	Expand the GIS Database to Digitize Records
Action Category:	Administrative
Action Type:	Local Plans and Regulations
HMA Eligible Activity:	Advance Assistance
Action Description:	Digitize building records, capital improvement projects and plans, roadway plans, tax records, improvement plans, zoning approvals and certificates.

Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	2, 4, 5, 7
Risk Reduction:	Digitizing records protects all documentation from being permanently destroyed from future hazards and allows quicker access for the public to this information.
Technical:	Yes
Political:	No legal impediments anticipated.
Legal:	The community has the legal authority to implement this project.
Environmental:	There are no negative environmental impacts caused by this project and it will comply.
Social:	There are no negative social impacts from this project.
Administrative Capability:	The community does have the personnel and administrative capability implement this action as well as maintain it.
Local Champion:	OEM; Mayor and Borough Council

Other Community Objectives:

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate:	\$100,000.00
Priority:	High
Local Planning Mechanism:	Hazard Mitigation Plan
Responsible Party:	Borough of Rumson
Likely Funding Source(s):	Borough funding
Timeline:	1 year
Action Status:	New

Notes:

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_23

Rumson, Borough of

Describing the Action

Action Name:	Obtain High Resolution Aerials of SFHAs
Action Category:	Administrative
Action Type:	Natural Systems Protection
HMA Eligible Activity:	Advance Assistance
Action Description:	Obtain high resolution aerials of Special Flood Hazard Area.

Evaluating the Action

Hazard(s) Addressed:	Flood
Goals:	2, 3, 4, 5, 6
Risk Reduction:	Aerial or satellite base maps are useful for viewing structures and high resolution pictures of the earth's surface.
Technical:	This mitigation is technically feasible.
Political:	No legal impediments anticipated.
Legal:	The community has the legal authority to implement this project.
Environmental:	There are no negative environmental impacts caused by this project and it will comply.
Social:	There are no negative social impacts from this project.
Administrative Capability:	The community does have the personnel and administrative capability implement this action as well as maintain it.
Local Champion:	OEM; Mayor and Borough Council
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$1,000.00
Priority:	Low
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents
Responsible Party:	Borough Administrator
Likely Funding Source(s):	Borough funding
Timeline:	1 year
Action Status:	New
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_24

Rumson, Borough of

Describing the Action

Action Name: Initiate Regional Community Resiliency Discussions with Neighboring Communities

Action Category: Administrative

Action Type: Education and Awareness Programs

HMA Eligible Activity: Advance Assistance

Action Description: Regional resiliency discussion on sea level rise with neighboring at risk communities.

Evaluating the Action

Hazard(s) Addressed: Extreme Temperatures, Flood, Wave Action, Coastal Erosion, Nor'easter, Hurricane and Tropical Storm, Storm Surge

Goals: 1, 2, 3, 4, 5, 6, 7

Risk Reduction: The Borough is at a high risk of Sea Level Rise and flooding.

Technical: This mitigation is technically feasible.

Political: No legal impediments anticipated.

Legal: The community has the legal authority to implement this project.

Environmental: 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.

Social: There are no social impacts from this project on the community.

Administrative Capability: The community does have the personnel and administrative capability implement this action as well as maintain it.

Local Champion: OEM; Mayor and Borough Council

Other Community Objectives:

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate:

Priority: Medium

Local Planning Mechanism: Hazard Mitigation Plan

Responsible Party: Borough Administrator

Likely Funding Source(s): Borough and County budget

Timeline: 3 years

Action Status: New

Notes:

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_25

Rumson, Borough of

Describing the Action

Action Name:	Elevate or Floodproof Oyster Bay Drive
Action Category:	Mitigation - Continuity of Functional Use
Action Type:	Natural Systems Protection
HMA Eligible Activity:	Structure Elevation
Action Description:	Elevating Oyster Bay Drive above the base flood elevation to maintain dry access.

Evaluating the Action

Hazard(s) Addressed:	Flood, Wave Action, Coastal Erosion, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	1, 2, 3, 4, 5, 6
Risk Reduction:	Flood waters wash roads out, which is happening more often each year.
Technical:	This mitigation is technically feasible.
Political:	No legal impediments anticipated.
Legal:	This project was advised by the Mayor and Borough Council.
Environmental:	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.
Social:	There are no social impacts from this project on the community.
Administrative Capability:	The community does have the personnel and administrative capability implement this action as well as maintain it.
Local Champion:	OEM; Mayor and Borough Council

Other Community Objectives:

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate:	
Priority:	Medium
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents.
Responsible Party:	Borough Administrator
Likely Funding Source(s):	FEMA Hazard Mitigation Grant, Borough funding
Timeline:	3 years
Action Status:	New

Notes:

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_26

Rumson, Borough of

Describing the Action

Action Name:	Install Lightning Protection for Critical Borough Facilities
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Install lightning protection to Borough structures based upon most vulnerable and critical facilities. This action typically include the installation of lightning rods and grounding components to buildings and installation of surge protection devices to critical electronic equipment.

Evaluating the Action

Hazard(s) Addressed:	Lightening, Hurricane and Tropical Storm
Goals:	3, 5, 6 7
Risk Reduction:	Lightning strikes can damage electronic equipment utilized in critical facilities such as sanitary sewer pump stations and communication equipment.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by the Mayor and Borough Council.
Legal:	The community has the legal authority to implement this project.
Environmental:	There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations.
Social:	There are no social impacts from this project on the community.
Administrative Capability:	The community does have the personnel and administrative capability implement this action as well as maintain it.
Local Champion:	Mayor and Borough Council
Other Community Objectives:	Capital Improvements
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$100,000.00
Priority:	Medium
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents.
Responsible Party:	Borough Administrator
Likely Funding Source(s):	Borough funding
Timeline:	1 year
Action Status:	New
Notes:	The Borough is researching the necessary equipment for lightning protection and evaluating critical facility priority.

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_27

Rumson, Borough of

Describing the Action

Action Name:	Install Surveillance Cameras at Critical Facilities
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Install surveillance cameras to monitor critical facilities for natural and human based hazards. During natural hazards, flood proofed structures (Sanitary Sewer Pump Stations) can be safely monitored from remote locations. Human-based hazards can be monitored by Rumson Police Department.

Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	3, 5, 6, 7
Risk Reduction:	Natural and human based hazards can be monitored at critical facilities to reduce the risk of damage.
Technical:	This mitigation is technically feasible.
Political:	This project was advised by the Mayor and Borough Council.
Legal:	The community has the legal authority to implement this project.
Environmental:	There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations.
Social:	There are no social impacts from this project on the community.
Administrative Capability:	The community does have the personnel and administrative capability implement this action as well as maintain it.
Local Champion:	Mayor and Borough Council
Other Community Objectives:	Capital Improvements
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$80,000.00
Priority:	Medium
Local Planning Mechanism:	Mitigation activities will be implemented according to all governing regulatory documents.
Responsible Party:	Borough Administrator
Likely Funding Source(s):	Homeland Security grants, Borough funding
Timeline:	1 year
Action Status:	New
Notes:	The Borough is researching the necessary equipment for surveillance operations and evaluating critical facility priority.

Monmouth County Mitigation Action Worksheets

Community Action Number: 42_28

Rumson, Borough of

Describing the Action

Action Name:	Acquire, elevate, or relocate buildings and infrastructure in flood prone areas, with a focus on Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Structure Elevation
Action Description:	Coordinate with residents to mitigate RL/SRL properties through structure elevation, demolition to open space, or other type of mitigation.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm
Goals:	1, 2, 3, 6
Risk Reduction:	Risk of future destruction and property loss in repetitive flooded areas.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected.
Legal:	If structures are elevated, they must be built in compliance with the FEMA flood maps.
Environmental:	Positively impacts the environment by increasing the permeable surface for each homeowner property.
Social:	Does not adversely affect any particular social group. Perceived by the public to be a good thing because of repetitive nature of flooding in the project area.
Administrative Capability:	There is sufficient capacity and experience to administer this action.
Local Champion:	OEM
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	High
Local Planning Mechanism:	Hazard Mitigation Plan
Responsible Party:	Borough and Property Owners
Likely Funding Source(s):	FEMA HMA
Timeline:	5 + years
Action Status:	New
Notes:	

CAPABILITY ASSESSMENT WORKSHEET

Name: David Marks and Tom Rogers

Title: Borough Engineer and Admin/Clerk

Jurisdiction: Rumson Borough

Organization:

Local Mitigation Capabilities are existing authorities, policies, programs, and resources that reduce hazard impacts or that could be used to implement hazard mitigation activities. Please complete the tables and questions in the worksheet as completely as possible.

Planning & Regulatory

Planning and Regulatory Capabilities are the plans, policies, codes, and ordinances that prevent and reduce the impacts of hazards. Please indicate which of the following your jurisdiction currently has in place.

Plan	Yes/No	1. What is the date/year of the plan? 2. Does the plan address hazards? 3. Does the plan identify projects to include in the mitigation strategy? 4. Can the plan be used to implement mitigation actions?
Comprehensive/Master Plan	Yes	Sept 2015
Capital Improvements Plan	Yes	Sept 2015
Economic Development Plan	No	
Local Emergency Operations Plan	Yes	Updating in 2020
Continuity of Operations Plan	Yes	Part of the EOP
Post-Disaster Recovery Plan	No	
Transportation Plan	No	
Stormwater Management Plan	Yes	Sept 2015, Element of the master plan
Community Wildfire Protection Plan		



CAPABILITY ASSESSMENT WORKSHEET

Other special plans (e.g., brownfields redevelopment, disaster recovery, coastal zone management, climate change adaptation)	Yes	<ul style="list-style-type: none"> • Rumson Hazard Mitigation Plan (2015) • Debris Management Plan (2015) • Strategic Recovery Planning Report (2014) • Floodplain Management Plan (2015) • Getting to Resilience • NJ FRAMES
Building Code, Permitting, and Inspections	Yes/No	Are codes adequately enforced?
Building Code	Yes	Version/Year: ICC 2015 (residential), ICC 2012 (commercial)
Building Code Effectiveness Grading Schedule (BCEGS) Score	Yes	Score: 3 (residential) and 3 (commercial)
Fire Department ISO rating		Rating:
Site Plan Review Requirements	Yes	Planning, Zoning, Engineering Reviews
Land Use Planning and Ordinances	Yes/No	Is the ordinance an effective measure for reducing hazard impacts? Is the ordinance adequately administered and enforced?
Zoning Ordinance	Yes	
Subdivision Ordinance	Yes	
Floodplain Ordinance	Yes	Floodplain Development Protection Ordinance
Natural hazard ordinance (stormwater, steep slope, wildfire)	Yes	
Flood Insurance Rate Maps	Yes	
Acquisition of Land for Open Space and Public Recreation Uses	Yes	Attempting to purchase open space on Dorn Island
Post-Disaster Recovery Ordinance	No	
Real Estate Disclose Ordinance	No	



CAPABILITY ASSESSMENT WORKSHEET

Other (ie. Special Purposes Ordinance)	No	
How can the above capabilities be expanded and improved to reduce risk?		

Administrative & Technical

Identify whether your community has the following administrative and technical capabilities. These include staff and their skills and tools that can be used for mitigation planning and to implement specific mitigation actions. For smaller jurisdictions without local staff resources, if there are public resources at the next higher-level government that can provide technical assistance, indicate so in your comments.

Administration	Yes/No	Describe capability Is coordination effective?
Planning Commission	Yes	
Mitigation Planning Committee	Yes	
Maintenance Programs to Reduce Risk (e.g., tree trimming, clearing drainage systems)	Yes	
Mutual Aid Agreements	Yes	Shares building department with Little Silver and Fair Haven Shares fire with Northern Monmouth Company Shares court with Fair Haven
Staff	Yes/No FT/PT	Is the staff full time or part time? Is staffing adequate to enforce regulations? Is the staff trained on hazards and mitigation? Is coordination between agencies and staff effective?
Chief Building Official	Yes	1. FT 2. Yes 3. Yes 4. Yes
Floodplain Administrator	Yes	1. Three FT employees 2. Yes 3. Yes 4. Yes
Emergency Manager	Yes	1. FT 2. Yes 3. Yes 4. Yes
Community Planner	Yes	1. PT consultant 2. Yes 3. Yes 4. Yes



CAPABILITY ASSESSMENT WORKSHEET

Civil Engineer	Yes	1. FT 2. Yes 3. Yes 4. Yes
Surveyor	Yes	1. PT consultant 2. Yes 3. Yes 4. Yes
GIS Coordinator	Yes	1. PT consultant and FT OEM 2. Yes 3. Yes 4. Yes
Scientists familiar with the hazards of the community	Yes	1. PT consultant and tree expert 2. Yes 3. Yes 4. Yes
Other	Yes	Monmouth University helps with the CRS program and GIS
Technical	Yes/No	Describe capability Has capability been used to access/mitigate risk in the past?
Warning Systems/Services (Reverse 911, outdoor warning signals)	Yes	Reverse 911, siren, Nixle system, social media
Hazard Data and Information	Yes	Borough has a website specific for Flood Management, social media
Grant Writing	Yes	In-house and consultant
Hazus Analysis	Yes	
Other	Yes	In house CAD, GIS and CFM
How can the above capabilities be expanded and improved to reduce risk?		



CAPABILITY ASSESSMENT WORKSHEET

Financial

Identify whether your jurisdiction has access to or is eligible to use the following funding resources for hazard mitigation.

Funding Resource	Access / Eligibility (Yes/No)	Has the funding resource been used in the past and for what type of activities? Could the resource be used to fund future mitigation actions?
Capital Improvements Project Funding	Yes	Road reconstruction, bulk head, generators,
Authority to Levy Taxes for Specific Purposes	Yes	
Fees for Water, Sewer, Gas, or Electric Services	Yes	Sewer only, all other utilities are private
Impact Fees for New Development	No	
Stormwater Utility Fee	No	Private utility
Incur Debt Through Private Activities	No	
Community Development Block Grant	No	
Other Federal Funding Programs	No	
State Funding Programs	Yes	DOT, US Forest Service
Other (e.g., withhold spending in hazard-prone areas)	Yes	
How can these capabilities be expanded and improved to reduce risk?		



CAPABILITY ASSESSMENT WORKSHEET

Education and Outreach

Identify education and outreach programs and methods already in place that could be used to implement mitigation activities and communicate hazard-related information.

Program/Organization	Yes/No	Describe program/organization and how it relates to disaster resilience and mitigation. Could the program/organization help implement future mitigation activities?
Local Citizen Groups or Non-Profit Organizations Focused on Environmental Protection, Emergency Preparedness, Access and Functional Needs Populations, etc.	Yes	Monmouth University, Navesink River Commission, NJ FRAMES
Ongoing Public Education or Information Programs (e.g., responsible water use, fire safety, household preparedness, environmental education)	Yes	Know Your Zone, High Water Mark, Sea Level Rise education with Monmouth University and marine field station at boat ramp
Natural Disaster or Safety Related School Programs	Yes	Greenhouse and building education,
StormReady Certification	NO	
Firewise Communities Certification	no	
Public-Private Partnership Initiatives Addressing Disaster Related Issues	Yes	Monmouth University, Urban Coast Institute
Other		
How can these capabilities be expanded and improved to reduce risk?		
Expand public information officer		





Parcel Classification

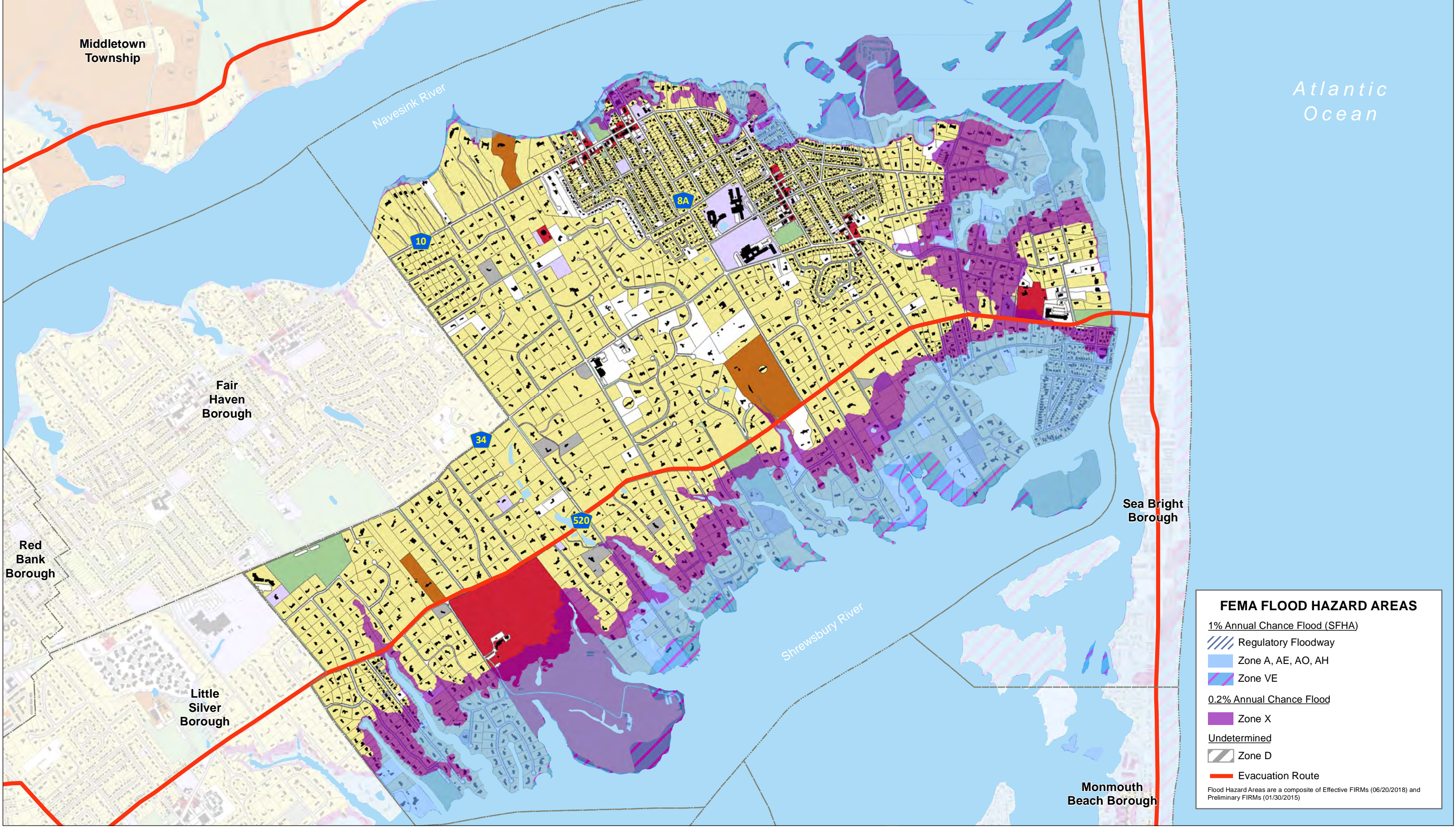
Industrial	Commercial	Apartment	Residential (four families or less)
Farm	Vacant	Civic/Public (Tax Exempt)	Unclassified
			Open Space

08501,700

Feet

Source: 2014 Esri; Monmouth County; NJOIT-OGIS; NJGIN MODIV Parcel, FEMA

Projection: New Jersey State Plane, NAD 1983



FEMA FLOOD HAZARD AREAS

1% Annual Chance Flood (SFHA)

Regulatory Floodway

Zone A, AE, AO, AH

Zone VE

0.2% Annual Chance Flood

Zone X

Undetermined

Zone D

Evacuation Route

Flood Hazard Areas are a composite of Effective FIRM (06/20/2018) and Preliminary FIRM (01/30/2015)

This map was developed using the 10-04-18 statewide composite of parcel data published by the NJOIT-OGIS. The State of New Jersey makes great effort to provide secure, accurate, and complete data and metadata. However, portions of the data and metadata may be incorrect or not current. Any errors or omissions should be reported for investigation to OGIS.



- Parcel Classification
- Industrial

Commercial

Apartment

Residential (four families or less)

Farm

Vacant

Civic/Public (Tax Exempt)

Unclassified

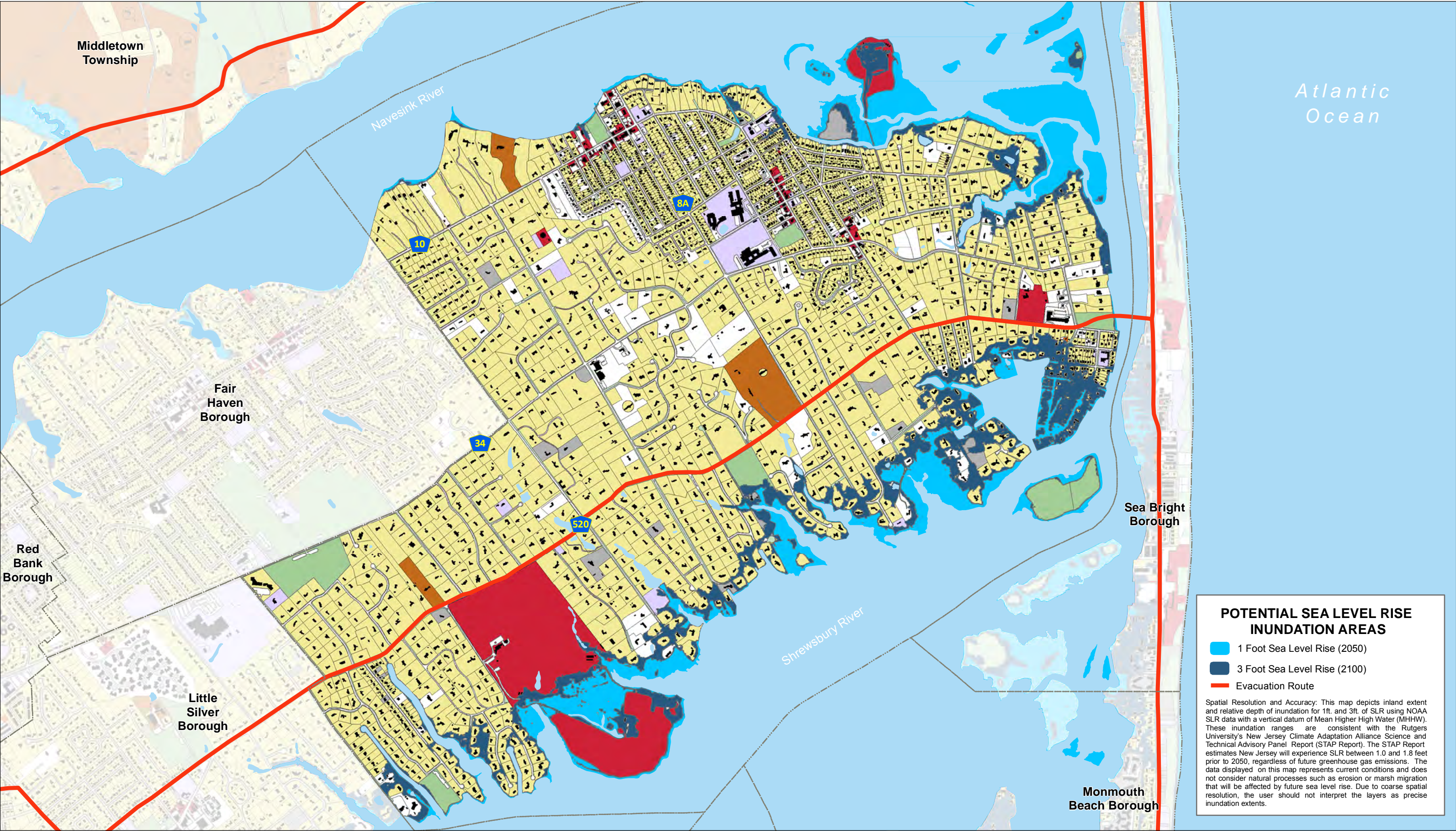
Open Space

08501,700

Feet

Source: 2014 Esri; Monmouth County; NJOIT-OGIS; NJGIN MODIV Parcel, FEMA

Projection: New Jersey State Plane, NAD 1983





MEETING NOTES

Topic: Rumson HMP Update Meeting

Date: May 30, 2019

Time: 11:00 AM- 12:00 PM

Location: Rumson Borough Hall (80 East River Rd. Rumson)

Drafted by: Paige Kaspar

Introductions (Paige):

- Goals and Hazards
- What is Mitigation Hazard Planning?
- Funding Available
 - HMA
- Mitigation Strategies
- The composite of 2018 + 2015 prelim data for the FIRM maps

RL/SRL

- Repetitive Loss and Severe Repetitive Loss
- Do we need to update our RL/SRL properties list for the CRS.
- Properties on the list are in Seabright's jurisdiction. They share a zip code since their post office was washed out during Sandy.

Critical facilities

- Many properties should be removed. Send block and lot data to cross reference mitigated properties.

2015 Mitigation Actions:

- Mitigation 1: elevated 150 homes since sandy. Some of which used FEMA funding. Complete
- Mitigation 2: New bulkhead at Washington Ave. and new tide valves complete but not second half of action
- Mitigation 3: complete with FEMA funds immediately after the event.
- Mitigation 4: complete funded thru FEMA funds
- Mitigation 5: Ongoing not complete
- Mitigation 6: complete



- Mitigation 7: transfer facility ongoing
- Mitigation 8: ongoing
- Mitigation 9: ongoing
- Mitigation 10: ongoing capability. Looking at social media and updating websites
- Mitigation 11: ongoing capability
- Mitigation 12: ongoing
- Mitigation 13: ongoing
- Mitigation 14: partially complete still have 10 facilities left to complete. Ongoing
- Mitigation 15: ongoing
- Mitigation 16: ongoing
- Mitigation 17: ongoing will give updated descriptions
- Mitigation 18: completed
- Mitigation 19: completed and ongoing
- Mitigation 20: ongoing capability
- Mitigation 21: huge portion is complete. New action out of this; phase 2.

2020 Mitigation Actions (NEW):

1. Digitize building records. Capital improvement projects, tax records, improvement plans, zoning, elevation certificates all digitized.
2. High resolution aeriels of flood hazard areas.
3. Community resiliency discussion with sea level rise.
4. Raise or floodproof oyster bay drive.
5. BCA costs more than the actual project.

Successes:

- Public Works Building. Dry proofed, intakes sealed off, flood ways. Press ray flood doors.
- Sanitary pump station near borough hall and Grant Ave pump stations. All access ways are above the 500-year flood.
- Received 4 generators for the pump stations. HMP effort.
- Focus on block and lot data because Sea Bright and Rumson have similar addresses



Monmouth County
Multi-Jurisdictional Hazard Mitigation Plan Update



Michael Baker
INTERNATIONAL

Meeting: Rumson HMP Meeting

Date: 05-30-19

Initial	Last Name	First Name	Title	Organization	Email Address
	Ashman	Brittany	Planner	MB	Brittany.Ashman@mbakerintl.com
	Kaspar	Paige	Planner	MB	Paige.Kaspar@mbakerintl.com
	MATZES	DAVID	BOARD MEMBER	Rumson	DMATZES@RUMSONNJ.GOV
	ROTARUS	Thomas	Admin/ Clerk	Neungard	Thomas@NeungardNJ.GOV

Appendix Vol I.43 Sea Bright Borough

Please find below the following documents specific to this jurisdiction that have been included as part of the plan update process.

- Summary Sheet
- Mitigation Action Table
- Mitigation Action Worksheets
- Capability Assessment
- Flood Zone Map
- Sea Level Rise Vulnerability Map
- Meeting Material



NFIP Statistics

1,096 Policies In-force

1,952 Total Losses

\$86,509,160 Total Payments

185 Number of RL Properties

75 Number Mitigated
RL Properties

590 RL - Total Losses

\$35,382,671 RL - Total Paid

12 Number of SRL Properties

0 Number Mitigated SRL
Properties

53 SRL - Total Losses

\$2,025,343 SRL - Total Paid

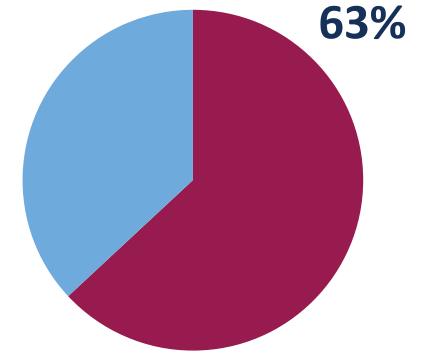


Critical Facilities

4 Critical Facilities

0 Critical Infrastructure

25 Historic & Cultural Resources



Percent Land Area Within SFHA

12

Total Mitigation
Actions

2



Education and Awareness Programs

9



Structure and Infrastructure Projects

1



Local Plans and Regulations

0



Natural Systems Protection



0 SV Population At Risk (2017)

822 Population at Risk (2017)

Sea Bright, Borough of

Monmouth County HMP Mitigation Action Summary

Community Action #	Action Name	Action Description	Action Category	Action Type	Hazard(s) Addressed	Priority	Responsible Party	Potential Funding Sources	Cost Estimate	Timeline	Action Status
43_01	Acquire, elevate, or relocate buildings and infrastructure in flood prone areas, with a focus on Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties	Elevation of approximately 700 homes; 114 homes are on the Repetitive Loss List. The Borough has identified these homes as severely damaged after Superstorm 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.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	OEM Coordinator	FEMA HMA; Municipal budget	\$105,000,000.00	2 years	Ongoing
43_02	Elevate Bulkhead with Pump Stations, Tide Valves to Outfalls, and Backflow Preventors	The scope of this project is completing the bulkhead by raising it 2,600 feet from the south side of the Rumson Rd. Bridge to Osborne P., along both private and public property, to create a continuous elevated bulkhead equipped with four stormwater pump stations, tide flex valves at all outfalls within the project area, and backflow preventers. The Borough is seeking to raise the bulkhead elevation to 7.0ft NAVO 88, to protect these properties from the 25-year-storm event.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Wave Action, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	OEM Coordinator	FEMA HMA	\$10,286,600.00	2 years	Ongoing
43_03	Rehabilitate and Complete Sea Wall	Rehabilitate and complete the Sea Wall along Ocean Ave./Route 36.		Structure and Infrastructure Project	Flood, Wave Action, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge		OEM Coordinator	Army Corps of Engineers and HMP funds	\$15,366,500.00		Completed
43_04	Floodproof the Downtown District	Floodproof a minimum of 35 buildings in the Downtown District. These businesses have been identified by the Borough as severely damaged after Superstorm Sandy. Many of the buildings (18) are also listed on the 2011 Repetitive Loss List. The Downtown District is located along Ocean Avenue/Route 36 between Peninsula Avenue and Osborne Place. The Borough is seeking funding to provide financial assistance to businesses in order to provide floodproofing to their buildings.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge	Medium	OEM Coordinator	FEMA HMA	\$5,250,000.00	1 year	Ongoing
43_05	Construct Berms Along Beachfront to Absorb Storm Surge	Constructing berms to protect vulnerable areas and absorb wave action storm surge, and to act as a natural barrier to the destructive forces of wind.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	OEM Coordinator	FEMA HMA	\$3,000,000.00	1 year	Ongoing
43_06	Move the Electrical Infrastructure Underground	Move above-ground electric wires and infrastructure below-ground.	Mitigation - Continuity of Functional Use	Structure and Infrastructure Project	All Hazards	Medium	OEM Coordinator	CDBG, Federal and State grant	\$200,000.00	1 year	Ongoing
43_07	Target Harden Pump Stations with Camera System and Fencing	Upgrade security on all pump stations (3 sewer pumps + 2 stormwater pumps), including camera system and fencing.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Terrorism	Low	Borough DPW	Homeland Security grants		2 years	New

Sea Bright, Borough of

Monmouth County HMP Mitigation Action Summary

Community Action #	Action Name	Action Description	Action Category	Action Type	Hazard(s) Addressed	Priority	Responsible Party	Potential Funding Sources	Cost Estimate	Timeline	Action Status
43_08	Develop a Hydrology Study to Improve Stormwater Management Borough-wide	Hydrology Study to improve stormwater management and flooding issues.	Administrative	Local Plans and Regulations	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge	Medium	Borough Engineering	Municipal funding		2 years	New
43_09	Maintain and Retrofit Existing Outfalls	Maintain and retrofit all existing 63 outfalls in the Borough.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	Medium	Borough DPW, Engineering	FEMA HMA		1 year	New
43_10	Improve Public Awareness of Severe Wind Through Outreach Activities	Improve public awareness of severe wind through outreach activities such as informing residents of shelter locations and evacuation routes; 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; reviewing building codes and structural policies to ensure they are adequate to protect older structures from wind damage; encouraging wind-resistant roof shapes; educating design professionals to include wind mitigation during building design.	Administrative	Education and Awareness Programs	Extreme Wind, Nor'easter, Hurricane and Tropical Storm	Low	Planning Board, OEM	Municipal budget		2 years	New
43_11	Improve Public Awareness of Storm Preparedness at the Marina	Educate boat and marina owners on how to properly prepare for a storm in order to reduce losses. Marinas can develop a boat preparation pamphlet for boat owners. The purpose of the pamphlet would be to educate owners on how to secure boats in preparation for a hurricane, storage facility options, and actions to take after a storm.	Administrative	Structure and Infrastructure Project	Flood, Wave Action, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Winter Storm	Low	Planning Board, OEM	Municipal budget		2 years	New
43_12	Purchase and Install New Siren for Municipal Complex	Purchase and install a siren on the municipal complex.	Maintenance/Response/Recovery	Education and Awareness Programs	All Hazards	Medium	Borough Administration	Municipal budget		1 year	New

Monmouth County Mitigation Action Worksheets

Community Action Number: 43_01

Sea Bright, Borough of

Describing the Action

Action Name:	Acquire, elevate, or relocate buildings and infrastructure in flood prone areas, with a focus on Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Structure Elevation
Action Description:	Elevation of approximately 700 homes; 114 homes are on the Repetitive Loss List. The Borough has identified these homes as severely damaged after Superstorm 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.

Evaluating the Action

Hazard(s) Addressed:	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	1, 2, 3, 4, 5, 6
Risk Reduction:	Virtually all of Sea Bright lies within mapped storm surge hazard areas. The Borough of Sea Bright was almost entirely inundated during Superstorm Sandy. A large number of homes were flooded during Sandy where their first floors were below the BFE. 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.
Technical:	Technically feasible. Flooding problem in downtown and repetitive loss would be eliminated.
Political:	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.
Legal:	No apparent legal issues.
Environmental:	The project will comply with environmental regulations.
Social:	Does not adversely affect any particular social group.
Administrative Capability:	Will use Borough staff, but outside help would be necessary for volume of work.
Local Champion:	Borough Council
Other Community Objectives:	
STAPLEE Evaluation:	10

Implementing the Action

Cost Estimate:	\$105,000,000.00
Priority:	High
Local Planning Mechanism:	Land use administration, planning boards, zoning officer, flood plain manager
Responsible Party:	OEM Coordinator
Likely Funding Source(s):	FEMA HMA; Municipal budget
Timeline:	2 years
Action Status:	Ongoing
Notes:	Ongoing 2015 action; 25 Center Street (\$257,040) and 8 Center Street (\$241,000) have been elevated through HMGP funding.

Monmouth County Mitigation Action Worksheets

Community Action Number: 43_02

Sea Bright, Borough of

Describing the Action

Action Name:	Elevate Bulkhead with Pump Stations, Tide Valves to Outfalls, and Backflow Preventors
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Mitigation Reconstruction
Action Description:	The scope of this project is completing the bulkhead by raising it 2,600 feet from the south side of the Rumson Rd. Bridge to Osborne P., along both private and public property, to create a continuous elevated bulkhead equipped with four stormwater pump stations, tide flex valves at all outfalls within the project area, and backflow preventers. The Borough is seeking to raise the bulkhead elevation to 7.0ft NAVO 88, to protect these properties from the 25-year-storm event.

Evaluating the Action

Hazard(s) Addressed:	Flood, Wave Action, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 5, 6
Risk Reduction:	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 became inundated with water due to flooding, which creates public health hazards, causes loss of use and income, property damage, emergency response and unnecessary burden.
Technical:	Technically feasible. Flooding problem salved long term; community's problem of business interruption solved.
Political:	The Borough has participated in this program before and the Council continues to support it.
Legal:	Easements needed.
Environmental:	No adverse environmental impacts.
Social:	Does not adversely affect any particular social group.
Administrative Capability:	Would use Borough resources and technical assistance from State to manage.
Local Champion:	Borough Council
Other Community Objectives:	Protect Economic Development (homes and businesses)
STAPLEE Evaluation:	11

Implementing the Action

Cost Estimate:	\$10,286,600.00
Priority:	High
Local Planning Mechanism:	Borough Engineer, Borough Council, OEM
Responsible Party:	OEM Coordinator
Likely Funding Source(s):	FEMA HMA
Timeline:	2 years
Action Status:	Ongoing
Notes:	Ongoing 2015 action; three out of four pump stations have been completed; currently adding tide flex valves; and three backflow preventers have been built (but need more). The Ocean Ave. Pump Station received \$1,831,952 in HMGP funding. The Borough was awarded two FEMA 406 Funding to repair the pump stations post-Sandy. One grant was for \$187,109 and the second for \$67,360. The Borough was also awarded FEMA 406 for repairs to bulkheads after Hurricane Irene.

Monmouth County Mitigation Action Worksheets

Community Action Number: 43_03

Sea Bright, Borough of

Describing the Action

Action Name:	Rehabilitate and Complete Sea Wall
Action Category:	
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Mitigation Reconstruction
Action Description:	Rehabilitate and complete the Sea Wall along Ocean Ave./Route 36.

Evaluating the Action

Hazard(s) Addressed:	Flood, Wave Action, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 5, 7
Risk Reduction:	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.
Technical:	Technically feasible. Flooding problem throughout town would be addressed and mitigated to a degree.
Political:	The Borough Council and community support protecting the residents by pursuing this project.
Legal:	No apparent legal issues.
Environmental:	No adverse environmental effects.
Social:	Does not adversely affect any particular social group.
Administrative Capability:	Will need multiple people to administer (after technical assistance from State and professionals).
Local Champion:	Borough Council
Other Community Objectives:	Business district protection
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$15,366,500.00
Priority:	
Local Planning Mechanism:	Mayor and Council, with State and Federal Authorities
Responsible Party:	OEM Coordinator
Likely Funding Source(s):	Army Corps of Engineers and HMP funds
Timeline:	
Action Status:	Completed
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 43_04

Sea Bright, Borough of

Describing the Action

Action Name:	Floodproof the Downtown District
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Dry Floodproofing of Non-residential Structures
Action Description:	Floodproof a minimum of 35 buildings in the Downtown District. These businesses have been identified by the Borough as severely damaged after Superstorm Sandy. Many of the buildings (18) are also listed on the 2011 Repetitive Loss List. The Downtown District is located along Ocean Avenue/Route 36 between Peninsula Avenue and Osborne Place. The Borough is seeking funding to provide financial assistance to businesses in order to provide floodproofing to their buildings.

Evaluating the Action

Hazard(s) Addressed:	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 5
Risk Reduction:	Sea Bright's downtown district was completely inundated by Superstorm Sandy and is in SFHA, Zone A. Dry floodproofing is encouraged for businesses that cannot elevate.
Technical:	Technically feasible. Flooding problem in downtown area.
Political:	The Borough Council, business owners, and residents support this project.
Legal:	No apparent legal issues
Environmental:	No adverse environmental effects
Social:	Does not adversely affect any particular social group
Administrative Capability:	Borough resources would be used with technical assistance from the State
Local Champion:	Borough Council, Businesses of Sea Bright
Other Community Objectives:	Supports Sea Bright's Economic Development Plan
STAPLEE Evaluation:	10

Implementing the Action

Cost Estimate:	\$5,250,000.00
Priority:	Medium
Local Planning Mechanism:	Floodplain Manager, Zoning Officer, Borough Council, Planning Board
Responsible Party:	OEM Coordinator
Likely Funding Source(s):	FEMA HMA
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; one business tried to floodproof but was not able to due to location of gas service.

Monmouth County Mitigation Action Worksheets

Community Action Number: 43_05

Sea Bright, Borough of

Describing the Action

Action Name:	Construct Berms Along Beachfront to Absorb Storm Surge
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Localized Flood Risk Reduction Projects
Action Description:	Constructing berms to protect vulnerable areas and absorb wave action storm surge, and to act as a natural barrier to the destructive forces of wind.

Evaluating the Action

Hazard(s) Addressed:	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 5, 6
Risk Reduction:	Sea Bright is located on the barrier island; its beaches are eroding. Superstorm Sandy destroyed the dune system in Sea Bright. The Borough has been rebuilding berms to add protection for the beach, homes, and businesses.
Technical:	Technically feasible. Protection for local residences, businesses, and NJSH Route 36 corridor.
Political:	The Borough Council and community support this project and have used Borough resources on this work.
Legal:	Need to coordinate with NJDEP regulations.
Environmental:	No adverse environmental effects. Working around piping plover season. Working with State to monitor this.
Social:	Does not adversely affect any particular social group.
Administrative Capability:	Borough has sufficient capacity and experience to administer this action
Local Champion:	Borough Council

Other Community Objectives:

STAPLEE Evaluation: 11

Implementing the Action

Cost Estimate:	\$3,000,000.00
Priority:	High
Local Planning Mechanism:	Mayor and Council, Department of Public Works, OEM
Responsible Party:	OEM Coordinator
Likely Funding Source(s):	FEMA HMA
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; currently, the Borough is planting and replanting dunes and they established a Dune Planting Committee. There will always be an ongoing need for dunes and berms to protect the Borough from flooding from the ocean side.

Monmouth County Mitigation Action Worksheets

Community Action Number: 43_06

Sea Bright, Borough of

Describing the Action

Action Name:	Move the Electrical Infrastructure Underground
Action Category:	Mitigation - Continuity of Functional Use
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Move above-ground electric wires and infrastructure below-ground.

Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	2, 5, 7
Risk Reduction:	The effects of the 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.
Technical:	Discussing with utility companies.
Political:	The Borough Council and community support protecting the residents by pursuing this project.
Legal:	No apparent legal issues.
Environmental:	No adverse environmental effects.
Social:	Does not adversely affect any particular social group.
Administrative Capability:	Will need multiple people to administer (after technical assistance from State and Professionals).
Local Champion:	Sea Bright 2020, Mayor and Council
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$200,000.00
Priority:	Medium
Local Planning Mechanism:	Mayor and Council, Sea Bright 2020
Responsible Party:	OEM Coordinator
Likely Funding Source(s):	CDBG, Federal and State grant
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; JCP&L put in redundant system after Sandy. Electrical infrastructure connecting to stormwater pumps is elevated.

Monmouth County Mitigation Action Worksheets

Community Action Number: 43_07

Sea Bright, Borough of

Describing the Action

Action Name:	Target Harden Pump Stations with Camera System and Fencing
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Upgrade security on all pump stations (3 sewer pumps + 2 stormwater pumps), including camera system and fencing.

Evaluating the Action

Hazard(s) Addressed:	Terrorism
Goals:	1, 2, 3, 5, 7
Risk Reduction:	The pump stations are vulnerable to a terrorist attack and needs to be more secure.
Technical:	Action will not negatively impact function or operation of station.
Political:	No adverse political ramifications are expected.
Legal:	No legal impediments anticipated.
Environmental:	No adverse environmental impact anticipated
Social:	No adverse social impact anticipated. The project is perceived as beneficial by the public as it will increase the reliability of operations.
Administrative Capability:	Borough has sufficient capacity and experience to administer this action
Local Champion:	Mayor, OEM, Administrator

Other Community Objectives:

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate:	
Priority:	Low
Local Planning Mechanism:	Sea Bright Hazard Mitigation Plan (2016)
Responsible Party:	Borough DPW
Likely Funding Source(s):	Homeland Security grants
Timeline:	2 years
Action Status:	New
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 43_08

Sea Bright, Borough of

Describing the Action

Action Name: Develop a Hydrology Study to Improve Stormwater Management Borough-wide

Action Category: Administrative

Action Type: Local Plans and Regulations

HMA Eligible Activity: Localized Flood Risk Reduction Projects

Action Description: Hydrology Study to improve stormwater management and flooding issues.

Evaluating the Action

Hazard(s) Addressed: Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge

Goals: 2, 3, 4, 5, 6

Risk Reduction: The hydrological processes and erosion along Sea Bright's Atlantic Ocean and Shrewsbury River shorelines are continuous and of mounting concern. Overall, the future occurrence of coastal erosion in Sea Bright can be considered likely, as defined by the Risk Factor methodology probability criteria.

Technical: Technically feasible.

Political: No adverse political ramifications are expected.

Legal: No legal impediments anticipated.

Environmental: Does not adversely affect the environment.

Social: Does not adversely affect any particular social group. Perceived by the public to be a good thing because it reduces risk for residents.

Administrative Capability: Borough has sufficient capacity and experience to administer this action.

Local Champion: Mayor, OEM, Administrator

Other Community Objectives:

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate:

Priority: Medium

Local Planning Mechanism: Sea Bright Hazard Mitigation Plan (2016)

Responsible Party: Borough Engineering

Likely Funding Source(s): Municipal funding

Timeline: 2 years

Action Status: New

Notes:

Monmouth County Mitigation Action Worksheets

Community Action Number: 43_09

Sea Bright, Borough of

Describing the Action

Action Name: Maintain and Retrofit Existing Outfalls

Action Category: Maintenance/Response/Recovery

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Infrastructure Retrofit

Action Description: Maintain and retrofit all existing 63 outfalls in the Borough.

Evaluating the Action

Hazard(s) Addressed: Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge

Goals: 2, 3, 5

Risk Reduction: Tidal flooding in Sea Bright has become a common occurrence during high tide cycles and full moons. The storm sewers along the roads have outfalls below the high tide elevations. When the tide rises water can enter the storm sewer and flood the streets. Some of the drainage systems in Sea Bright have check valves at the outfalls that prevent the tide from backing up into the pipes and onto the roadways.

Technical: Technically feasible.

Political: Politically acceptable and encouraged.

Legal: No legal issues anticipated

Environmental: Does not adversely affect the environment.

Social: Does not adversely affect any particular social group. Perceived by the public to be a good thing because it reduces risk for residents.

Administrative Capability: Borough has sufficient capacity and experience to administer this action.

Local Champion: Mayor, OEM, Administrator

Other Community Objectives:

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate:

Priority: Medium

Local Planning Mechanism: Sea Bright Hazard Mitigation Plan (2016)

Responsible Party: Borough DPW, Engineering

Likely Funding Source(s): FEMA HMA

Timeline: 1 year

Action Status: New

Notes:

Monmouth County Mitigation Action Worksheets

Community Action Number: 43_10

Sea Bright, Borough of

Describing the Action

Action Name:	Improve Public Awareness of Severe Wind Through Outreach Activities
Action Category:	Administrative
Action Type:	Education and Awareness Programs
HMA Eligible Activity:	Miscellaneous/Other/NA
Action Description:	Improve public awareness of severe wind through outreach activities such as informing residents of shelter locations and evacuation routes; 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; reviewing building codes and structural policies to ensure they are adequate to protect older structures from wind damage; encouraging wind-resistant roof shapes; educating design professionals to include wind mitigation during building design.

Evaluating the Action

Hazard(s) Addressed:	Extreme Wind, Nor'easter, Hurricane and Tropical Storm
Goals:	1, 2, 3, 4, 5, 6
Risk Reduction:	Sea Bright has experienced high winds from hurricane events. During Hurricane Sandy the National Weather Service (NWS) recorded sustained winds up to eight-eight (88) mph. Wind poses a threat to lives, property, and vital utilities primarily due to the effects of flying debris or downed trees and power lines.
Technical:	Technically feasible.
Political:	The Borough Council and community support continued awareness and research into new and innovation mitigation actions, techniques and technologies.
Legal:	No legal issues are anticipated.
Environmental:	No adverse environmental impacts are anticipated.
Social:	Does not adversely affect any particular social group. Perceived by the public to be beneficial by protecting their home or business.
Administrative Capability:	Will utilize Borough staff, but outside help would be necessary for increased volume of work.
Local Champion:	Mayor, OEM, Administrator
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	Low
Local Planning Mechanism:	Sea Bright Hazard Mitigation Plan (2016), Planning Board, Borough Council, OEM
Responsible Party:	Planning Board, OEM
Likely Funding Source(s):	Municipal budget
Timeline:	2 years
Action Status:	New
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 43_11

Sea Bright, Borough of

Describing the Action

Action Name:	Improve Public Awareness of Storm Preparedness at the Marina
Action Category:	Administrative
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other/NA
Action Description:	Educate boat and marina owners on how to properly prepare for a storm in order to reduce losses. Marinas can develop a boat preparation pamphlet for boat owners. The purpose of the pamphlet would be to educate owners on how to secure boats in preparation for a hurricane, storage facility options, and actions to take after a storm.

Evaluating the Action

Hazard(s) Addressed:	Flood, Wave Action, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Winter Storm
Goals:	2, 3, 5, 6, 7
Risk Reduction:	Debris carried by floodwater generates short duration impacts when they strike stationary or slower moving objects. Waterborne debris typically include any floating object that that is not secure, such as boats. Unsecured boats can cause damage to other boats and properties.
Technical:	N/A
Political:	The Borough Council and community support continued awareness and research into new and innovation mitigation actions, techniques and technologies.
Legal:	No apparent legal issues.
Environmental:	No adverse environmental effects.
Social:	Does not adversely affect any particular social group.
Administrative Capability:	Will utilize Borough staff, but outside help would be necessary for increased volume of work.
Local Champion:	Mayor, OEM, Administrator
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	Low
Local Planning Mechanism:	Sea Bright Hazard Mitigation Plan (2016), Planning Board, Borough Council, OEM
Responsible Party:	Planning Board, OEM
Likely Funding Source(s):	Municipal budget
Timeline:	2 years
Action Status:	New
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 43_12

Sea Bright, Borough of

Describing the Action

Action Name: Purchase and Install New Siren for Municipal Complex

Action Category: Maintenance/Response/Recovery

Action Type: Education and Awareness Programs

HMA Eligible Activity: Miscellaneous/Other/NA

Action Description: Purchase and install a siren on the municipal complex.

Evaluating the Action

Hazard(s) Addressed: All Hazards

Goals: 4, 5, 7

Risk Reduction: The Borough has difficulty reaching all residents during emergency situations and disaster.

Technical: Technically feasible.

Political: Politically acceptable and encouraged in order to communicate reach all residents with crucial information.

Legal: No legal issues anticipated.

Environmental: No adverse environmental effects anticipated.

Social: Does not adversely affect any particular social group. Perceived by the public to be a good thing because the siren will keep residents alert and informed.

Administrative Capability: Borough has sufficient capacity and experience to administer this action

Local Champion: Mayor, OEM, Administrator

Other Community Objectives:

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate:

Priority: Medium

Local Planning Mechanism: Hazard Mitigation Plan

Responsible Party: Borough Administration

Likely Funding Source(s): Municipal budget

Timeline: 1 year

Action Status: New

Notes: The Borough Hall and Municipal Lot was awarded two FEMA 406 Public Assistance funding after Hurricane Irene; one for \$1,150 and \$986,144.

CAPABILITY ASSESSMENT WORKSHEET

Name: Daniel J. Chernavsky

Title: OEM Coordinator

Jurisdiction: Sea Bright Borough

Organization:

Local Mitigation Capabilities are existing authorities, policies, programs, and resources that reduce hazard impacts or that could be used to implement hazard mitigation activities. Please complete the tables and questions in the worksheet as completely as possible.

Planning & Regulatory

Planning and Regulatory Capabilities are the plans, policies, codes, and ordinances that prevent and reduce the impacts of hazards. Please indicate which of the following your jurisdiction currently has in place.

Plan	Yes/No	1. What is the date/year of the plan? 2. Does the plan address hazards? 3. Does the plan identify projects to include in the mitigation strategy? 4. Can the plan be used to implement mitigation actions?
Comprehensive/Master Plan	Yes	1. 2017
Capital Improvements Plan	Yes	
Economic Development Plan	Yes	
Local Emergency Operations Plan	Yes	1. 2013
Continuity of Operations Plan		
Post-Disaster Recovery Plan	Yes	
Transportation Plan	Yes	1. As an element of the 2017 Master Plan
Stormwater Management Plan	Yes	1. Revised 2007
Community Wildfire Protection Plan		



CAPABILITY ASSESSMENT WORKSHEET

Other special plans (e.g., brownfields redevelopment, disaster recovery, coastal zone management, climate change adaptation)	Yes	<ul style="list-style-type: none"> • Stormwater Pollution Prevention Plan (2018) • Strategic Recovery Planning Report • Sea Bright 202 Recovery Plan (2013) • Getting to Resilience • NJ FRAMES • Sea Bright Hazard Mitigation Plan
Building Code, Permitting, and Inspections	Yes/No	Are codes adequately enforced?
Building Code	Yes	Version/Year:
Building Code Effectiveness Grading Schedule (BCEGS) Score		Score:
Fire Department ISO rating		Rating:
Site Plan Review Requirements	Yes	
Land Use Planning and Ordinances	Yes/No	Is the ordinance an effective measure for reducing hazard impacts? Is the ordinance adequately administered and enforced?
Zoning Ordinance	Yes	
Subdivision Ordinance	Yes	
Floodplain Ordinance	Yes	<ul style="list-style-type: none"> • Flood Damage Prevention Ordinance
Natural hazard ordinance (stormwater, steep slope, wildfire)	Yes	<ul style="list-style-type: none"> • Bulkhead Ordinance • Stormwater Management Ordinance • Floodplain Management Ordinance
Flood Insurance Rate Maps	Yes	
Acquisition of Land for Open Space and Public Recreation Uses		
Post-Disaster Recovery Ordinance	Yes	
Real Estate Disclose Ordinance	Yes	



CAPABILITY ASSESSMENT WORKSHEET

Other (ie. Special Purposes Ordinance)	Yes	Special Purposes Ordinance and Growth Management Ordinance
How can the above capabilities be expanded and improved to reduce risk?		

Administrative & Technical

Identify whether your community has the following administrative and technical capabilities. These include staff and their skills and tools that can be used for mitigation planning and to implement specific mitigation actions. For smaller jurisdictions without local staff resources, if there are public resources at the next higher-level government that can provide technical assistance, indicate so in your comments.

Administration	Yes/No	Describe capability Is coordination effective?
Planning Commission		
Mitigation Planning Committee	Yes	Sea Bright Dune Committee
Maintenance Programs to Reduce Risk (e.g., tree trimming, clearing drainage systems)		
Mutual Aid Agreements		
Staff	Yes/No FT/PT	Is the staff full time or part time? Is staffing adequate to enforce regulations? Is the staff trained on hazards and mitigation? Is coordination between agencies and staff effective?
Chief Building Official		
Floodplain Administrator	Yes	PT
Emergency Manager	Yes	PT
Community Planner	Yes	Consultant PT



CAPABILITY ASSESSMENT WORKSHEET

Civil Engineer	Yes	Consultant PT
Surveyor	Yes	
GIS Coordinator	Yes	
Scientists familiar with the hazards of the community	Yes	
Other		Intron (IT Company) Cyber security, email servers, moving backup serves in Shrewsbury, protects from phishing
Technical	Yes/No	Describe capability Has capability been used to access/mitigate risk in the past?
Warning Systems/Services (Reverse 911, outdoor warning signals)		<ul style="list-style-type: none"> • Reverse 911 Nexel • Code Red
Hazard Data and Information		<ul style="list-style-type: none"> • Flood Tab • HMW Sign
Grant Writing	No	
Hazus Analysis	No	
Other		<ul style="list-style-type: none"> • Ballards along Sea Wall ramps • Classification CRS 2018, class 5
How can the above capabilities be expanded and improved to reduce risk?		



CAPABILITY ASSESSMENT WORKSHEET

Financial

Identify whether your jurisdiction has access to or is eligible to use the following funding resources for hazard mitigation.

Funding Resource	Access / Eligibility (Yes/No)	Has the funding resource been used in the past and for what type of activities? Could the resource be used to fund future mitigation actions?
Capital Improvements Project Funding	Yes	
Authority to Levy Taxes for Specific Purposes	Yes	
Fees for Water, Sewer, Gas, or Electric Services	Yes	
Impact Fees for New Development	Yes	
Stormwater Utility Fee		
Incur Debt Through Private Activities	Yes	
Community Development Block Grant	Yes	
Other Federal Funding Programs	Yes	
State Funding Programs		
Other (e.g., withhold spending in hazard-prone areas)	Yes	Withhold spending in hazard-prone areas, Incur Debt through General Obligation, Incur Debt through Special Tax and Revenue Bond
How can these capabilities be expanded and improved to reduce risk?		
<p>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>		



CAPABILITY ASSESSMENT WORKSHEET

Education and Outreach

Identify education and outreach programs and methods already in place that could be used to implement mitigation activities and communicate hazard-related information.

Program/Organization	Yes/No	Describe program/organization and how it relates to disaster resilience and mitigation. Could the program/organization help implement future mitigation activities?
Local Citizen Groups or Non-Profit Organizations Focused on Environmental Protection, Emergency Preparedness, Access and Functional Needs Populations, etc.		
Ongoing Public Education or Information Programs (e.g., responsible water use, fire safety, household preparedness, environmental education)		
Natural Disaster or Safety Related School Programs		
StormReady Certification		
Firewise Communities Certification		
Public-Private Partnership Initiatives Addressing Disaster Related Issues		
Other		
How can these capabilities be expanded and improved to reduce risk?		





- Parcel Classification
- Industrial

Commercial

Apartment

Residential (four families or less)

Farm

Vacant

Civic/Public (Tax Exempt)

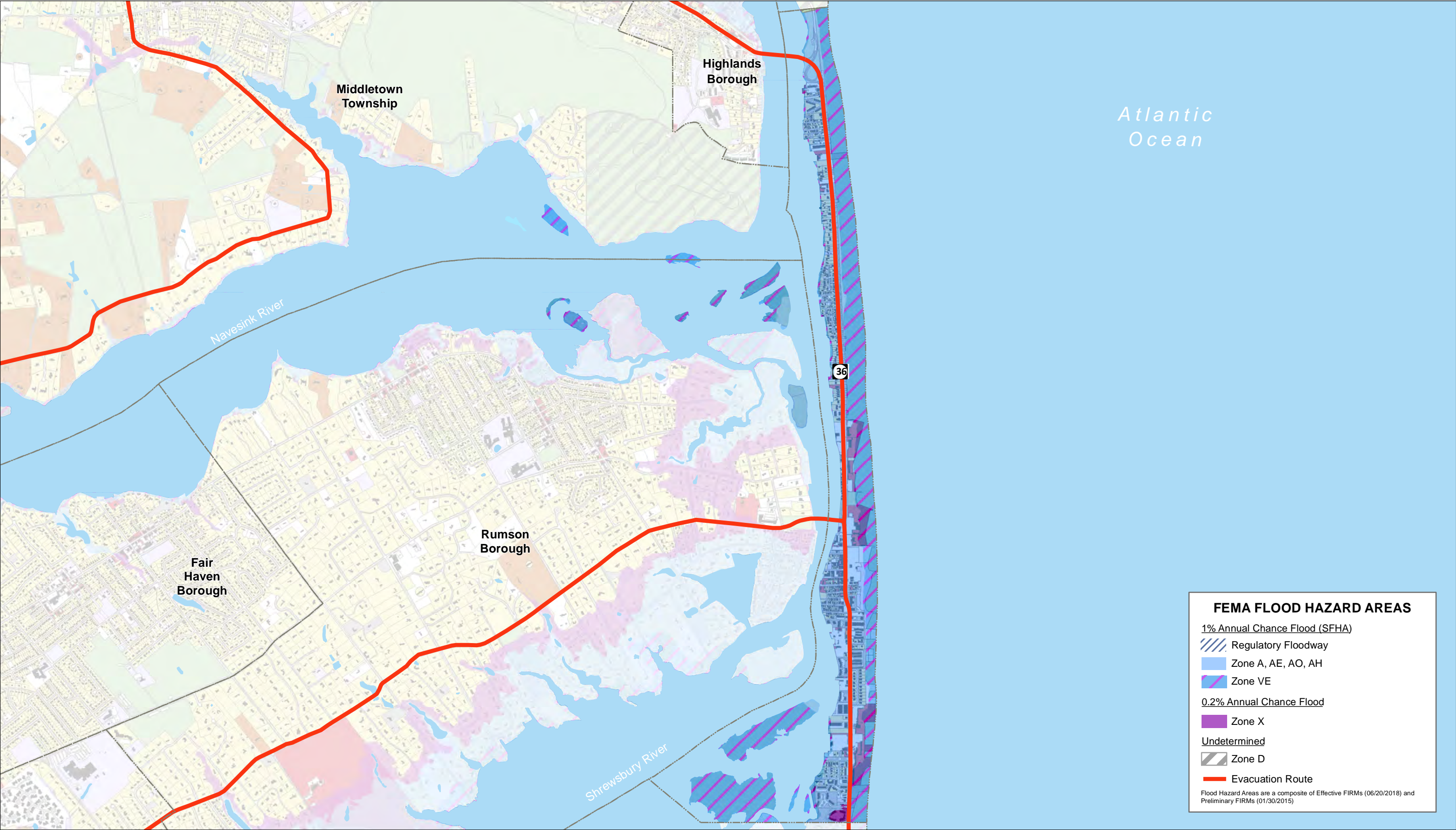
Unclassified

Open Space

01,0502,100

Feet

Source: 2014 Esri; Monmouth County; NJOIT-OGIS; NJGIN MODIV Parcel, FEMA
Projection: New Jersey State Plane, NAD 1983



FEMA FLOOD HAZARD AREAS

1% Annual Chance Flood (SFHA)

Regulatory Floodway

Zone A, AE, AO, AH

Zone VE

0.2% Annual Chance Flood

Zone X

Undetermined

Zone D

Evacuation Route

Flood Hazard Areas are a composite of Effective FIRM (06/20/2018) and Preliminary FIRM (01/30/2015)



Parcel Classification

Industrial

Commercial

Apartment

Residential (four families or less)

Farm

Vacant

Civic/Public (Tax Exempt)

Unclassified

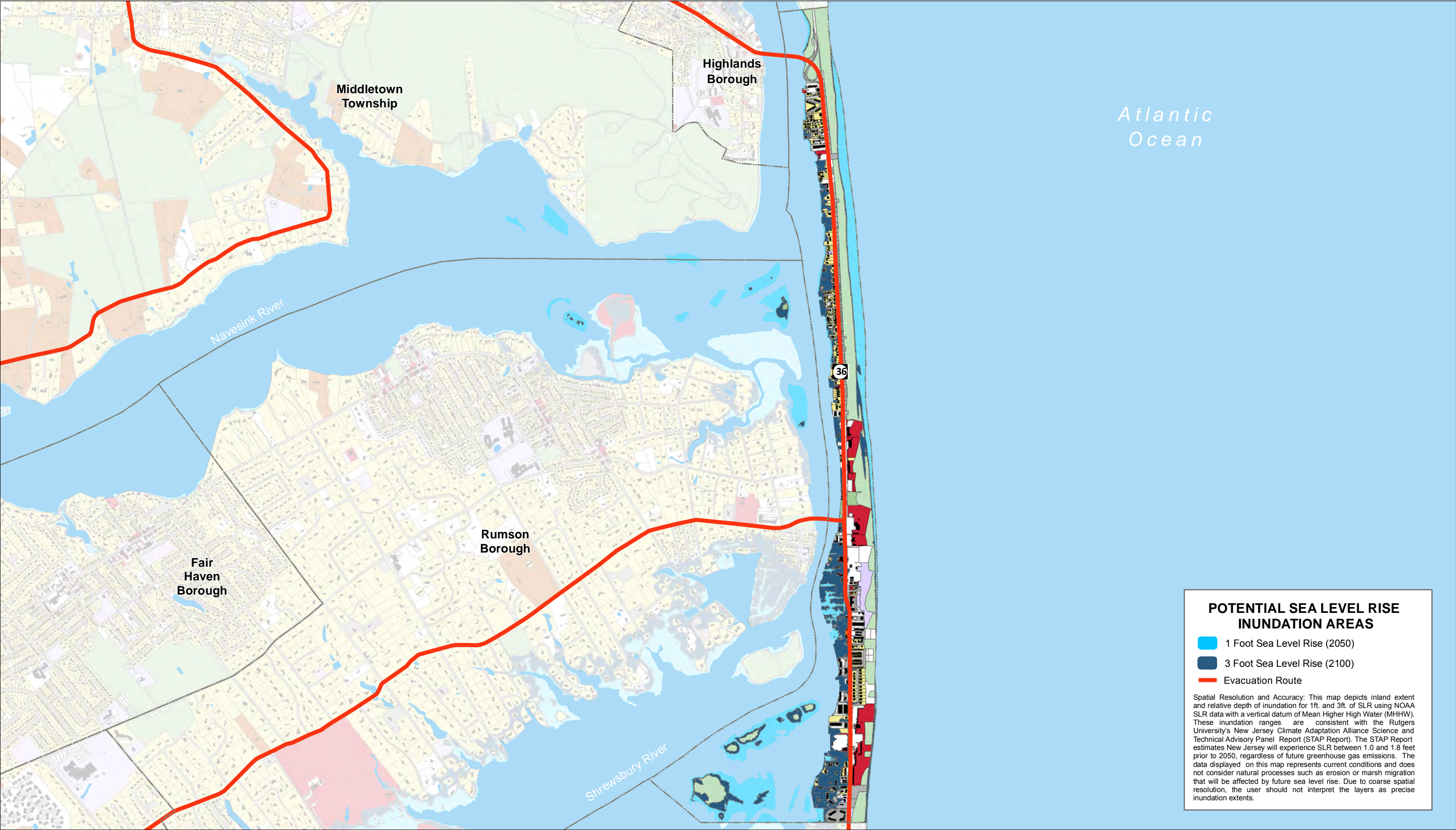
Open Space

01,0502,100

Feet

Source: 2014 Esri; Monmouth County; NJOIT-OGIS; NJGIN MODIV Parcel, FEMA

Projection: New Jersey State Plane, NAD 1983



This map was developed using the 10-04-18 statewide composite of parcel data published by the NJOIT-OGIS. The State of New Jersey makes great effort to provide secure, accurate, and complete data and metadata. However, portions of the data and metadata may be incorrect or not current. Any errors or omissions should be reported for investigation to OGIS.



MEETING NOTES

Topic: Sea Bright- Monmouth County HMP Update Meeting

Date: June 27, 2019

Time: 12:00 PM- 1:00 PM

Location: Sea Bright Boro Hall: 1167 Ocean Ave, Sea Bright, NJ

Attendees:

Daniel	Chernavsky	OEM
Dina	Long	Mayor
Joseph	Verruni	Administrator

Drafted by: Paige Kaspar

Introductions (Paige):

- Goals and Hazards
- What is Mitigation Hazard Planning?
- Funding Available
 - HMA
- Mitigation Strategies

2015 Mitigation Actions:

- Community Action 43_01 Home Elevation **Ongoing**
 - Town to send updated list of homes
- Community Action 43_02 Bulkhead Elevation and Add Pump Stations, Tide Valves to Outfalls, and Backflow Preventors **Ongoing**
 - 3 out of 4 pump stations have been completed
 - Have added tide flex valves through easements
 - Added 3 backflow preventers → need more
 - New Action: Osborne to Rumson Bridge majority in a residential area
 - Bulkheads at end of public streets (boardwalk) raised to standards 7ft NAVD (as designated by Army Corp)
 - Residential development from Center St. to River St. continuous bulkhead that will be at the designated 7ft height



- Borough wants to continue to pump station (River St to Peninsula St.) and ties into repair Rumson Bridge
 - Osborne South still open
 - Applied for HMPG grant for this but denied because cost/benefit wasn't high enough because people elevated
- Community Action 43_03 Rehabilitate and complete sea wall **Complete**
- Community Action 43_04 Flood proofing in Downtown district - **Ongoing**
 - Retrofit existing building that can't be elevated
 - Dry flood proofing nonresidential structures are covered by PDM
 - One business tried but was not able to due to location of gas service
- Community Action 43_05 Constructing berms to protect vulnerable areas **Ongoing**
 - Planting & replanting dunes
 - Dune Planting Committee
 - Dune replenishment
 - For erosion control
 - Allowed to construct berms under state of emergency conditions
 - Need to have a permit from DEP, there are strict rules
- Community Action 43_06 Protect electrical infrastructure - **Ongoing**
 - JCP&L put in redundant system after Sandy
 - Electrical infrastructure to stormwater pumps are elevated

2020 Mitigation Actions (NEW):

- 7 Upgrade security on all pump stations (3 sewer pumps 2 stormwater pumps), including cameras
- 8 - Hydrology study for stormwater flows
- 9 Maintenance & retrofit of existing outfalls, currently there are 63 outfalls, Church St. backflow valves
- 10 Wind study or wind ordinance wind event → from local HMP
- 11 Marina Strengthening
- 12 - upgrade & replace siren on municipal complex

Appendix Vol I.44 Sea Girt Borough

Please find below the following documents specific to this jurisdiction that have been included as part of the plan update process.

- Summary Sheet
- Mitigation Action Table
- Mitigation Action Worksheets
- Capability Assessment
- Flood Zone Map
- Sea Level Rise Vulnerability Map
- Meeting Material



NFIP Statistics

302 Policies In-force

111 Total Losses

\$2,389,283 Total Payments

4 Number of RL Properties

0 Number Mitigated
RL Properties

13 RL - Total Losses

\$214,542 RL - Total Paid

0 Number of SRL Properties

0 Number Mitigated SRL
Properties

0 SRL - Total Losses

\$0 SRL - Total Paid

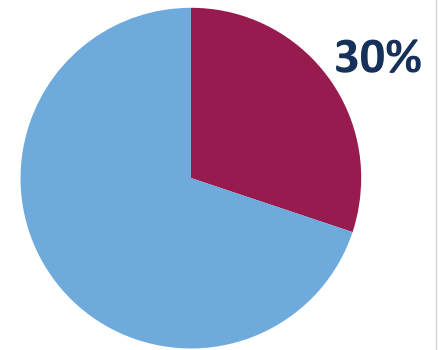


Critical Facilities

7 Critical Facilities

0 Critical Infrastructure

23 Historic & Cultural Resources



Percent Land Area Within SFHA

12

Total Mitigation
Actions

2



Education and Awareness Programs

9



Structure and Infrastructure Projects

1



Local Plans and Regulations

0



Natural Systems Protection



0 SV Population At Risk (2017)

516 Population at Risk (2017)

Sea Girt, Borough of

Monmouth County HMP Mitigation Action Summary

Community Action #	Action Name	Action Description	Action Category	Action Type	Hazard(s) Addressed	Priority	Responsible Party	Potential Funding Sources	Cost Estimate	Timeline	Action Status
44_01	Extend Outflow Pipe	Extend the outflow pipe past the Mean High Tide Mark into the ocean and raise to an elevation as to not clog with sand.		Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge		Borough and Army Corps of Engineers	HMGP grant and 25% borough match			Completed
44_02	Elevate Homes above the BFE	Elevate 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.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Homeowners	FEMA HMA	\$207,900,000.00	1 year	Ongoing
44_03	Purchase and Install (or Upgrade) Generators at Critical Facilities	New generator at the Public Works building and upgrade generators at the Water Treatment Plant and Municipal Building.	Maintenance/Response/Recovery	Structure and Infrastructure Project	All Hazards	Medium	Borough and contracted parties	FEMA HMA	\$45,000.00	1 year	Ongoing
44_04	New Alert Horn and Siren System	Improve the notification to residents by the addition of and installation 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 a hurricane to notify residents by mass messaging over the public address system. We believe this would be a perfect fit in the beachfront area, 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. The Borough has no means of contacting residents as well as persons driving through the town during a 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 horns units would serve as to 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.		Education and Awareness Programs	All Hazards		Borough and contracted parties	HMGP grant and 25% borough match	\$200,000.00		Completed

Sea Girt, Borough of

Monmouth County HMP Mitigation Action Summary

Community Action #	Action Name	Action Description	Action Category	Action Type	Hazard(s) Addressed	Priority	Responsible Party	Potential Funding Sources	Cost Estimate	Timeline	Action Status
44_05	Purchase Portable and Permanent Emergency Signage	The Borough wishes to improve the notification to residents and persons traveling through the Borough roadways by two different means of information: Portable: a portable sign trailer that has a message board and it notifies persons of hazardous conditions and unsafe situations. This portable message board would be used by Sea Girt OEM to warn residents of impending life-threatening conditions, flooding, hazardous conditions with the mobility to notify residents of impending danger, hazardous conditions and that the area they are in will flood. These signs would serve as a main means of communicating the needed information during power outages and prolonged periods of danger and hazard. Permanent: The Borough also has certain areas that during Superstorm 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.	Maintenance/Response/Recovery	Structure and Infrastructure Project	All Hazards	Medium	Borough and contracted parties	Municipal budget, Homeland Security grants	\$70,000.00	1 year	Ongoing
44_06	AM Radio Station for Communication	AM Radio Station for communication of vital information to residents.		Education and Awareness Programs	All Hazards		Borough and contracted parties	HMGP grant and 25% borough match	\$50,000.00		Completed
44_07	Reopen Wreck Pond	Reopen the east end of the pond to allow for flow between Wreck Pond and the Atlantic Ocean.		Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge		Borough of Spring Lake, with cooperation and support from Sea	Sources of funding have already been identified and 75% of the funding is	\$2,000,000.00		Completed
44_08	Dredge Wreck Pond	Continue to work with DEP, Spring Lake, Spring Lake Heights, Wall Township, and Monmouth County to bring the project to completion.		Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm		Shared responsibility with all stakeholders	Potential funding sources Army Corps of Engineers, DEP, Monmouth County,			Completed
44_09	Create an Emergency Recovery Plan for the National Guard Training Center	Coordinate with the NJ Department of Military and Veterans Affairs on an Emergency Recovery Plan for their National Guard Training Center. Adopt this plan as an element of the Borough's Emergency Operations Plan.	Administrative	Local Plans and Regulations	All Hazards	Medium	Borough Administration and OEM	Homeland Security grants, Municipal budget		2 years	New
44_10	Increase Security at Water Tower with Surveillance Camera System and Secure Gates	Install a surveillance camera system and more secure gates at the water tower, DPW building, and the wells outside DPW.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Terrorism	Medium	Borough OEM, Police, DPW	Homeland Security grants	\$10,000.00	1 year	New

Sea Girt, Borough of

Monmouth County HMP Mitigation Action Summary

Community Action #	Action Name	Action Description	Action Category	Action Type	Hazard(s) Addressed	Priority	Responsible Party	Potential Funding Sources	Cost Estimate	Timeline	Action Status
44_11	Acquire, elevate, or relocate buildings and infrastructure in flood prone areas, with a focus on Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties	Coordinate with residents to mitigate RL/SRL properties through structure elevation, demolition to open space, or other type of mitigation.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm	High	Borough and Property Owners	FEMA HMA		5 + years	New
44_12	Coordinate with the National Guard Training Center to Construct Flood Measure (e.g. floodwalls or berms) along Stockton Lake	Coordinate with the National Guard Training Center to construct floodwalls or berms on their property along Stockton Lake, which causes repetitive flooding in the Borough.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	National Guard and the Borough	FEMA HMA		4 years	New

Monmouth County Mitigation Action Worksheets

Community Action Number: 44_01

Sea Girt, Borough of

Describing the Action

Action Name:	Extend Outflow Pipe
Action Category:	
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Mitigation Reconstruction
Action Description:	Extend the outflow pipe past the Mean High Tide Mark into the ocean and raise to an elevation as to not clog with sand.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 5, 7
Risk Reduction:	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.
Technical:	Technically feasible.
Political:	No political obstacles anticipated.
Legal:	No legal issues expected.
Environmental:	No adverse environmental impacts.
Social:	Does not adversely affect any particular social group.
Administrative Capability:	The NJDEP, 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.
Local Champion:	Homeowners happy to have flooding reduced.
Other Community Objectives:	Mitigates the problem and increases value of the properties with decreased flooding.
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	
Local Planning Mechanism:	Borough ordinance related to beachfront and CAFRA permitting
Responsible Party:	Borough and Army Corps of Engineers
Likely Funding Source(s):	HMGP grant and 25% borough match
Timeline:	
Action Status:	Completed
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 44_02

Sea Girt, Borough of

Describing the Action

Action Name:	Elevate Homes above the BFE
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Structure Elevation
Action Description:	Elevate 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.

Evaluating the Action

Hazard(s) Addressed:	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 5, 6
Risk Reduction:	Sea Girt would like to apply for funding on behalf of the residents of the Borough 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.
Technical:	Technically feasible.
Political:	No political obstacles anticipated.
Legal:	Variances will be required to permit structures to exceed maximum height permitted by Borough Ordinance to allow for elevation increase.
Environmental:	No adverse environmental impacts
Social:	Does affect the quality of life of neighbors and residents in these areas. Construction and pile driving will affect quality of life however hopefully increase property values.
Administrative Capability:	Borough engineers, code enforcement, building department and outside contractors that will be tasked with the work, four administrative persons will be necessary to administer from the borough end.
Local Champion:	Homeowners
Other Community Objectives:	Mitigates the problem and increases value of the properties with decreased flooding
STAPLEE Evaluation:	10

Implementing the Action

Cost Estimate:	\$207,900,000.00
Priority:	High
Local Planning Mechanism:	Borough ordinance related to beachfront and CAFRA permitting as well as compliance with local building codes.
Responsible Party:	Homeowners
Likely Funding Source(s):	FEMA HMA
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 actions; 2 homes have been elevated. How many more RL need to be elevated is to be determined.

Monmouth County Mitigation Action Worksheets

Community Action Number: 44_03

Sea Girt, Borough of

Describing the Action

Action Name:	Purchase and Install (or Upgrade) Generators at Critical Facilities
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Generators
Action Description:	New generator at the Public Works building and upgrade generators at the Water Treatment Plant and Municipal Building.

Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	
Risk Reduction:	There is critical infrastructure within the Borough that are not able to be used during a disaster or a loss of power. The Municipal Building 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 Superstorm 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.
Technical:	Technically feasible.
Political:	No political obstacles anticipated.
Legal:	No legal issues expected.
Environmental:	No adverse environmental impacts.
Social:	Does not adversely affect any particular social group. Perceived by the public to be beneficial because it supports local services during emergencies.
Administrative Capability:	Borough has sufficient capacity and experience to administer this action
Local Champion:	Borough Council, School, Police and Fire Officials
Other Community Objectives:	Mitigates the problem and keeps the Borough operating
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$45,000.00
Priority:	Medium
Local Planning Mechanism:	Resolution for contractors and permitting where applicable
Responsible Party:	Borough and contracted parties
Likely Funding Source(s):	FEMA HMA
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; a new generator was acquired for the Public Works building (HMGP grant of \$19,485). The generators have not yet been updated at the Water Treatment Plant or the Municipal Building.

Monmouth County Mitigation Action Worksheets

Community Action Number: 44_04

Sea Girt, Borough of

Describing the Action

Action Name:	New Alert Horn and Siren System
Action Category:	
Action Type:	Education and Awareness Programs
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	<p>Improve the notification to residents by the addition of and installation 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 a hurricane to notify residents by mass messaging over the public address system. We believe this would be a perfect fit in the beachfront area, 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. The Borough has no means of contacting residents as well as persons driving through the town during a 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 horns units would serve as to 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.</p>

Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	3, 4, 7
Risk Reduction:	<p>The Borough sustained almost 14 days without power and getting messages to the Borough residents and persons of interest was crucial to the life and safety wellbeing 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 had no means of contacting residents as well as persons driving through the town during this Hurricane of any impending danger or hazardous situation.</p>
Technical:	Technically feasible.
Political:	No political obstacles anticipated.
Legal:	No legal issues expected.
Environmental:	No adverse environmental impacts.
Social:	Effects the wellbeing of the Borough and its residents.
Administrative Capability:	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.
Local Champion:	Borough Council, School, Police and Fire Officials
Other Community Objectives:	Mitigates the problem and keeps the public and residents immediately informed.
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$200,000.00
Priority:	
Local Planning Mechanism:	Resolution for contractors and permitting where applicable
Responsible Party:	Borough and contracted parties
Likely Funding Source(s):	HMGP grant and 25% borough match
Timeline:	
Action Status:	Completed
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 44_05

Sea Girt, Borough of

Describing the Action

Action Name:	Purchase Portable and Permanent Emergency Signage
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	<p>The Borough wishes to improve the notification to residents and persons traveling through the Borough roadways by two different means of information: Portable: a portable sign trailer that has a message board and it notifies persons of hazardous conditions and unsafe situations. This portable message board would be used by Sea Girt OEM to warn residents of impending life-threatening conditions, flooding, hazardous conditions with the mobility to notify residents of impending danger, hazardous conditions and that the area they are in will flood. These signs would serve as a main means of communicating the needed information during power outages and prolonged periods of danger and hazard. Permanent: The Borough also has certain areas that during Superstorm 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.</p>

Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	1, 3, 4, 7
Risk Reduction:	<p>The Borough sustained almost 14 days without power and getting messages to the Borough residents and persons of interest was crucial to the life and safety wellbeing 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.</p>
Technical:	Likely to be cost effective, with benefits in excess of project costs.
Political:	No political obstacles anticipated.
Legal:	No legal issues expected.
Environmental:	No adverse environmental impacts.
Social:	Affects the wellbeing of the Borough and its residents
Administrative Capability:	With outside contractors and borough engineers that will be tasked with the work, one administrative person will be necessary the administer from the borough end.
Local Champion:	Borough Council, School, Police and Fire Officials
Other Community Objectives:	Mitigates the problem and keeps the public and residents immediately informed.
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$70,000.00
Priority:	Medium
Local Planning Mechanism:	Resolution far contractors and permitting where applicable
Responsible Party:	Borough and contracted parties
Likely Funding Source(s):	Municipal budget, Homeland Security grants
Timeline:	1 year
Action Status:	Ongoing
Notes:	<p>Ongoing 2015 action; the portable emergency signage was obtained, and the permanent emergency signage is still in the process but will be on the new Municipal Building and library.</p>

Monmouth County Mitigation Action Worksheets

Community Action Number: 44_06

Sea Girt, Borough of

Describing the Action

Action Name: AM Radio Station for Communication

Action Category:

Action Type: Education and Awareness Programs

HMA Eligible Activity: Miscellaneous/Other

Action Description: AM Radio Station for communication of vital information to residents.

Evaluating the Action

Hazard(s) Addressed: All Hazards

Goals: 1, 3, 4, 7

Risk Reduction: 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.

Technical: Technically feasible.

Political: No political obstacles anticipated.

Legal: No legal issues expected.

Environmental: No adverse environmental impacts.

Social: Affects the wellbeing of the Borough and its residents

Administrative Capability: 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.

Local Champion: Borough Council, public,

Other Community Objectives: Mitigates the problem and keeps the public and residents immediately informed

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$50,000.00

Priority:

Local Planning Mechanism: Resolution for contractors and permitting where applicable

Responsible Party: Borough and contracted parties

Likely Funding Source(s): HMGP grant and 25% borough match

Timeline:

Action Status: Completed

Notes: Shared service with Manasquan.

Monmouth County Mitigation Action Worksheets

Community Action Number: 44_07

Sea Girt, Borough of

Describing the Action

Action Name: Reopen Wreck Pond

Action Category:

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Localized Flood Risk Reduction Projects

Action Description: Reopen the east end of the pond to allow for flow between Wreck Pond and the Atlantic Ocean.

Evaluating the Action

Hazard(s) Addressed: Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge

Goals: 2, 3, 5, 6

Risk Reduction: 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.

Technical: Technically feasible; the plans have been drafted and the project has started.

Political: No political obstacles anticipated.

Legal: No legal issues expected.

Environmental: Improve the water quality of the Pond along with reducing flooding of adjacent properties.

Social: Affects the quality of life of residents in the four communities adjacent to the Pond.

Administrative Capability: Administrative oversight

Local Champion: Governing bodies of Sea Girt, Spring Lake, Spring Lake Heights, and Wall Twp.

Other Community Objectives: Mitigate an on-going problem during times of peak rainfall

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$2,000,000.00

Priority:

Local Planning Mechanism: Plans to reopen the east end have already been drafted and are being implement

Responsible Party: Borough of Spring Lake, with cooperation and support from Sea Girt, Spring Lake Heights, and Wall Twp.

Likely Funding Source(s): Sources of funding have already been identified and 75% of the funding is approved.

Timeline:

Action Status: Completed

Notes:

Monmouth County Mitigation Action Worksheets

Community Action Number: 44_08

Sea Girt, Borough of

Describing the Action

Action Name:	Dredge Wreck Pond
Action Category:	
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Localized Flood Risk Reduction Projects
Action Description:	Continue to work with DEP, Spring Lake, Spring Lake Heights, Wall Township, and Monmouth County to bring the project to completion.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm
Goals:	2, 3, 5
Risk Reduction:	Sediment loading into the eastern end of the Pond has reduced the impoundment capacity of the Pond
Technical:	Technically feasible.
Political:	No political obstacles anticipated.
Legal:	No legal issues expected.
Environmental:	Finding a suitable disposal site for dredged material could be an issue.
Social:	Reduced risk benefits the community.
Administrative Capability:	Participation with other stakeholders to ensure project is completed.
Local Champion:	Governing bodies of Spring Lake, Sea Girt, Spring Lake Heights and Wall Twp., DEP, Monmouth County

Other Community Objectives:

STAPLEE Evaluation:	N/A
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Implementing the Action

Cost Estimate:	
Priority:	
Local Planning Mechanism:	Continue to work with DEP, Spring Lake, Spring Lake Heights and Wall Township to bring the project to completion.
Responsible Party:	Shared responsibility with all stakeholders
Likely Funding Source(s):	Potential funding sources Army Corps of Engineers, DEP, Monmouth County, HMGP and adjacent communities
Timeline:	
Action Status:	Completed
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 44_09

Sea Girt, Borough of

Describing the Action

Action Name:	Create an Emergency Recovery Plan for the National Guard Training Center
Action Category:	Administrative
Action Type:	Local Plans and Regulations
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Coordinate with the NJ Department of Military and Veterans Affairs on an Emergency Recovery Plan for their National Guard Training Center. Adopt this plan as an element of the Borough's Emergency Operations Plan.

Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	1, 3, 7
Risk Reduction:	Sea Girt would like to create an emergency response plan with the military in case a human-based hazard (terrorism) happens on base or to coordinate storm preparation.
Technical:	Technically feasible.
Political:	No political obstacles anticipated.
Legal:	Coordinate with NJ Department of Military and Veterans Affairs since it is their property within the Borough.
Environmental:	No adverse environmental impacts
Social:	Does not adversely affect any particular social group. Perceived by the public to be beneficial because it supports local services during emergencies
Administrative Capability:	Borough has sufficient capacity and experience to administer this action
Local Champion:	OEM, Administrator
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	Medium
Local Planning Mechanism:	Hazard Mitigation Plan
Responsible Party:	Borough Administration and OEM
Likely Funding Source(s):	Homeland Security grants, Municipal budget
Timeline:	2 years
Action Status:	New

Notes:

Monmouth County Mitigation Action Worksheets

Community Action Number: 44_10

Sea Girt, Borough of

Describing the Action

Action Name:	Increase Security at Water Tower with Surveillance Camera System and Secure Gates
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Install a surveillance camera system and more secure gates at the water tower, DPW building, and the wells outside DPW.

Evaluating the Action

Hazard(s) Addressed:	Terrorism
Goals:	3, 5, 7
Risk Reduction:	The top of the water tower houses the Borough's communication, including fire, police, and the only cell site in the area. The communicate center and the water tower itself is vulnerable to a terrorist attack and needs to be more secure. Currently, there is only a chain-linked fence around the tower's perimeter.
Technical:	Technically feasible.
Political:	No political obstacles anticipated.
Legal:	No legal issues anticipated.
Environmental:	No adverse environmental effects anticipated.
Social:	Does not adversely affect any particular social group. Perceived by the public to be beneficial because the water tower serves as a critical function for the community.
Administrative Capability:	Borough has sufficient capacity and experience to administer this action.
Local Champion:	OEM
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$10,000.00
Priority:	Medium
Local Planning Mechanism:	Hazard Mitigation Plan
Responsible Party:	Borough OEM, Police, DPW
Likely Funding Source(s):	Homeland Security grants
Timeline:	1 year
Action Status:	New
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 44_11

Sea Girt, Borough of

Describing the Action

Action Name:	Acquire, elevate, or relocate buildings and infrastructure in flood prone areas, with a focus on Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Structure Elevation
Action Description:	Coordinate with residents to mitigate RL/SRL properties through structure elevation, demolition to open space, or other type of mitigation.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm
Goals:	1, 2, 3, 6
Risk Reduction:	Risk of future destruction and property loss in repetitive flooded areas.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected.
Legal:	If structures are elevated, they must be built in compliance with the FEMA flood maps.
Environmental:	Positively impacts the environment by increasing the permeable surface for each homeowner property.
Social:	Does not adversely affect any particular social group. Perceived by the public to be a good thing because of repetitive nature of flooding in the project area.
Administrative Capability:	There is sufficient capacity and experience to administer this action.
Local Champion:	OEM
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	High
Local Planning Mechanism:	Hazard Mitigation Plan
Responsible Party:	Borough and Property Owners
Likely Funding Source(s):	FEMA HMA
Timeline:	5 + years
Action Status:	New
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 44_12

Sea Girt, Borough of

Describing the Action

Action Name:	Coordinate with the National Guard Training Center to Construct Flood Measure (e.g. floodwalls or berms) along Stockton Lake
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Localized Flood Risk Reduction Projects
Action Description:	Coordinate with the National Guard Training Center to construct floodwalls or berms on their property along Stockton Lake, which causes repetitive flooding in the Borough.

Evaluating the Action

Hazard(s) Addressed:	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	1, 2, 3, 7
Risk Reduction:	Approximately half of the National Guard Training Center and the surrounding neighborhood is in the SFHA, as a result of flooding from Stockton Lake; there is one Repetitive Loss property due to flooding from the Lake.
Technical:	Technically feasible.
Political:	No adverse political implications.
Legal:	Must work with the National Guard as this project would be located on their property.
Environmental:	Minor affects to the enviroenment.
Social:	Does not adversely affect any particular social group.
Administrative Capability:	Borough has sufficient capacity and experience to administer this action.
Local Champion:	OEM

Other Community Objectives:

STAPLEE Evaluation: 8

Implementing the Action

Cost Estimate:	
Priority:	High
Local Planning Mechanism:	Hazard Mitigation Plan
Responsible Party:	National Guard and the Borough
Likely Funding Source(s):	FEMA HMA
Timeline:	4 years
Action Status:	New

Notes:

CAPABILITY ASSESSMENT WORKSHEET

Name: Timothy Harmon

Title: Emergency Management Coordinator

Jurisdiction: Sea Girt Borough

Organization:

Local Mitigation Capabilities are existing authorities, policies, programs, and resources that reduce hazard impacts or that could be used to implement hazard mitigation activities. Please complete the tables and questions in the worksheet as completely as possible.

Planning & Regulatory

Planning and Regulatory Capabilities are the plans, policies, codes, and ordinances that prevent and reduce the impacts of hazards. Please indicate which of the following your jurisdiction currently has in place.

Plan	Yes/No	1. What is the date/year of the plan? 2. Does the plan address hazards? 3. Does the plan identify projects to include in the mitigation strategy? 4. Can the plan be used to implement mitigation actions?
Comprehensive/Master Plan	Yes	1. 2018 Re-examination
Capital Improvements Plan	Yes	Annually adopted by the governing body; yes; yes; yes
Economic Development Plan	No	
Local Emergency Operations Plan	Yes	
Continuity of Operations Plan	Yes	
Post-Disaster Recovery Plan	Yes	
Transportation Plan		Circulation element included in the 2018 re-examination
Stormwater Management Plan	Yes	1. As an element in the 2018 re-examination
Community Wildfire Protection Plan	No	



CAPABILITY ASSESSMENT WORKSHEET

Other special plans (e.g., brownfields redevelopment, disaster recovery, coastal zone management, climate change adaptation)	Yes	<ul style="list-style-type: none"> Crescent Park Rehabilitation Plan (2017) Beach Management Plan (2018)
Building Code, Permitting, and Inspections	Yes/No	Are codes adequately enforced?
Building Code	Yes	Version/Year: New Construction, NJ IRC 2015
Building Code Effectiveness Grading Schedule (BCEGS) Score		Score:
Fire Department ISO rating	Yes	Rating: Class 3
Site Plan Review Requirements	Yes	Yes, NJ Building Code Standards & reviews
Land Use Planning and Ordinances	Yes/No	Is the ordinance an effective measure for reducing hazard impacts? Is the ordinance adequately administered and enforced?
Zoning Ordinance	Yes	Yes, Local Municipal Ordinances Yes, full time zoning officer/code enforcing officer
Subdivision Ordinance	Yes	N/A; yes
Floodplain Ordinance	Yes	Flood Damage Prevention
Natural hazard ordinance (stormwater, steep slope, wildfire)	Yes	Yes; yes
Flood Insurance Rate Maps	?	
Acquisition of Land for Open Space and Public Recreation Uses	N/A	The Borough is fully built-out.
Post-Disaster Recovery Ordinance	Yes	
Real Estate Disclose Ordinance	Yes	



CAPABILITY ASSESSMENT WORKSHEET

Other (ie. Special Purposes Ordinance)	Yes	Special Purposes Ordinance, Growth Management Ordinance
How can the above capabilities be expanded and improved to reduce risk?		

Administrative & Technical

Identify whether your community has the following administrative and technical capabilities. These include staff and their skills and tools that can be used for mitigation planning and to implement specific mitigation actions. For smaller jurisdictions without local staff resources, if there are public resources at the next higher-level government that can provide technical assistance, indicate so in your comments.

Administration	Yes/No	Describe capability Is coordination effective?
Planning Commission	yes	Planning Board
Mitigation Planning Committee	No	
Maintenance Programs to Reduce Risk (e.g., tree trimming, clearing drainage systems)	Yes	Tree Plan
Mutual Aid Agreements	Yes	AM Radio Station w/ Manasquan; OEM, EMS, Fire, Police with adjoining municipalities;
Staff	Yes/No FT/PT	Is the staff full time or part time? Is staffing adequate to enforce regulations? Is the staff trained on hazards and mitigation? Is coordination between agencies and staff effective?
Chief Building Official	Yes	Shared service with adjoining municipalities.
Floodplain Administrator	Yes	Consultant
Emergency Manager	Yes	Part-time
Community Planner	Yes	Consultant



CAPABILITY ASSESSMENT WORKSHEET

Civil Engineer	Yes	Consultant
Surveyor	Yes	Consultant
GIS Coordinator	Yes	Consultant
Scientists familiar with the hazards of the community	No	
Other		
Technical	Yes/No	Describe capability Has capability been used to access/mitigate risk in the past?
Warning Systems/Services (Reverse 911, outdoor warning signals)	Yes	Sea Girt Police utilize reverse 911 notifications when the situation warrants
Hazard Data and Information		
Grant Writing	Yes	
Hazus Analysis		
Other		
How can the above capabilities be expanded and improved to reduce risk?		



CAPABILITY ASSESSMENT WORKSHEET

Financial

Identify whether your jurisdiction has access to or is eligible to use the following funding resources for hazard mitigation.

Funding Resource	Access / Eligibility (Yes/No)	Has the funding resource been used in the past and for what type of activities? Could the resource be used to fund future mitigation actions?
Capital Improvements Project Funding	Yes	Yes, for construction of new and repair of older infrastructure; yes
Authority to Levy Taxes for Specific Purposes	No	
Fees for Water, Sewer, Gas, or Electric Services	Yes	Improvements to water and sewer infrastructure; yes
Impact Fees for New Development	No	
Stormwater Utility Fee	No	
Incur Debt Through Private Activities	No	
Community Development Block Grant	Yes	For limited improvements to municipal facilities; no
Other Federal Funding Programs	Yes	
State Funding Programs	No	
Other (e.g., withhold spending in hazard-prone areas)		
How can these capabilities be expanded and improved to reduce risk?		



CAPABILITY ASSESSMENT WORKSHEET

Education and Outreach

Identify education and outreach programs and methods already in place that could be used to implement mitigation activities and communicate hazard-related information.

Program/Organization	Yes/No	Describe program/organization and how it relates to disaster resilience and mitigation. Could the program/organization help implement future mitigation activities?
Local Citizen Groups or Non-Profit Organizations Focused on Environmental Protection, Emergency Preparedness, Access and Functional Needs Populations, etc.	No	
Ongoing Public Education or Information Programs (e.g., responsible water use, fire safety, household preparedness, environmental education)	Yes	Borough provides information to residents in its monthly newsletter via e-mail.
Natural Disaster or Safety Related School Programs	Yes	Sea Girt Police, Sea Girt Fire Department and Sea Girt Lifeguards present programs to students on an annual basis
StormReady Certification	No	
Firewise Communities Certification	No	
Public-Private Partnership Initiatives Addressing Disaster Related Issues	No	
Other		
How can these capabilities be expanded and improved to reduce risk?		

