

Appendix Vol I.38 Ocean Township

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

285 *Polices In-force*

282 *Total Losses*

\$6,600,281 *Total Payments*

35 *Number of RL Properties*

14 *Number Mitigated
RL Properties*

108 *RL - Total Losses*

\$3,692,182 *RL - Total Paid*



3 *Number of SRL Properties*

0 *Number Mitigated SRL
Properties*

18 *SRL - Total Losses*

\$404,224 *SRL - Total Paid*

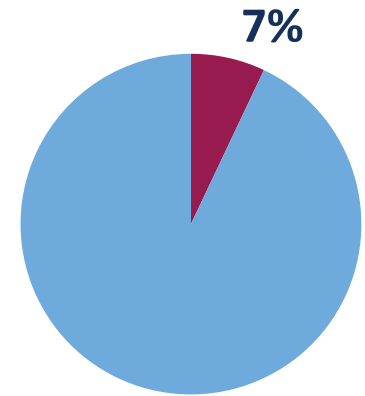
Critical Facilities



36 *Critical Facilities*

0 *Critical Infrastructure*

35 *Historic & Cultural Resources*



Percent Land Area Within SFHA

17

*Total Mitigation
Actions*

0



Education and Awareness Programs

10



Structure and Infrastructure Projects

0



Local Plans and Regulations

7



Natural Systems Protection



489 *SV Population At Risk (2017)*

1,905 *Population at Risk (2017)*

Ocean, Township of					Monmouth County HMP Mitigation Action Summary							
Community Action #	Action Name	Action Description	Action Category	Action Type	Hazard(s) Addressed	Priority	Ease of Implementation	Responsible Party	Potential Funding Sources	Cost Estimate	Timeline	Action Status
38_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	Acquire 28 Repetitive Loss Properties to purchase, demolition, and maintain as open space or elevate the structure.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm	High	Medium	Township Manager, Police, DPW, Green Acres, County Open Space	FEMA HMA	\$12,600,000.00	1 year	Ongoing
38_02	Clean and Desilt Poplar Brook and Whalepond Brook	Dredge the length of both Poplar Brook and Whalepond Brook to remove all obstructions. Remove snagging and debris from floodway and dredging up to two feet of silt.	Maintenance/Response/Recovery	Natural Systems Protection	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm	Medium	Low	Township Manager, DPW, County Mosquito Commission and Engineer	Municipal budget	\$1,000,000.00	1 year	Ongoing
38_03	Reconstruct Roseld Avenue Dam	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.	Mitigation - Continuity of Fuctional Use	Natural Systems Protection	Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm			Township Manager, DPW, NJDEP, Deal Lake Commission and Engineer		\$1,000,000.00		Withdrawn
38_04	Purchase and Install Generators for Town Hall	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.		Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm			Township Manager, Police, DPW and Engineer	Federal, state, county grants with some local funds	\$500,000.00		Completed
38_05	Create a Detention Pond for Whalepond Brook	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.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm	High	Low	Monmouth County officials, OT Township Manager, DPW, and Engineer	Municipal budget	\$3,000,000.00	1 year	Ongoing
38_06	Purchase and Install Generators for Other Critical Facilities	Acquisition of emergency generators for critical facilities, including the gym, high school, recreation center, and elementary school.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm	Low	Low	Township Manager, School administration, DPW, and Engineer	FEMA HMA	\$150,000.00	1 year	Ongoing
38_07	Remove Sediment and Tree Debris Along the Arm of Deal Lake	Remove sediment and tree debris to create a clear channel for stormwater entering Deal Lake.	Maintenance/Response/Recovery	Natural Systems Protection	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm	Low	Low	Township Manager, DPW, NJDEP, Deal Lake Commission and Engineer	Municipal budget	\$5,000,000.00	1 year	Ongoing
38_08	Redesign the Existing Weir to Increase Storm Attenuation Capacity at the Colonial Terrace Arm of Deal Lake	Redesign existing weir to increase storm attenuation capacity of the Colonial Terrace Arm of Deal Lake (west of Wickapecko Ave).	Mitigation - Continuity of Fuctional Use	Natural Systems Protection	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm			Township Manager, DPW, NJDEP, Deal Lake Commission and Engineer	NFWF grant application for planning/design submitted by DLC, may be possible to secure 319 grant for	\$220,000.00		Withdrawn

Ocean, Township of

Monmouth County HMP Mitigation Action Summary

Community Action #	Action Name	Action Description	Action Category	Action Type	Hazard(s) Addressed	Priority	Ease of Implementation	Responsible Party	Potential Funding Sources	Cost Estimate	Timeline	Action Status
38_09	Reconstruct Wetlands and Flood Attenuation Basins around Harvey Brook; Stabilize Stream Banks	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).	Mitigation - Continuity of Fuctional Use	Natural Systems Protection	Dam Failure, Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm	Medium	Medium	Township Manager, DPW, NJDEP, Deal Lake Commission and Engineer.	NJDEP Bureau of Dam Safety and Flood Control, EPA, National Fish and Wildlife Foundation (NFWF)	\$2,250,000.00	1 year	Ongoing
38_10	Redesign the Existing Weir to Increase Storm Attenuation Capacity at Fireman Pond	Retrofit of existing weir so pond can function as a regional flood attenuation basin. Install MTD in road to control pollutant loading to lake.	Mitigation - Continuity of Fuctional Use	Natural Systems Protection	Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm	High	Medium	Township Manager, DPW, NJDEP, Deal Lake Commission and Engineer	NFWF, FEMA HMA	\$400,000.00	1 year	Ongoing
38_11	Replace Existing Weir and Dredge and Reconfigure Existing Impoundment at Lollipop Pond	Replace existing weir, dredge, and reconfigure existing impoundment west of Chestnut Ave construct regional created wetland flood attenuation basin.	Maintenance/Respon se/Recovery	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm	High	Medium	Township Manager, DPW, NJDEP, Deal Lake Commission and Engineer	NFWF grant application for planning/design submitted by DLC, may be possible to secure 219 grant	\$1,000,000.00	1 year	Ongoing
38_12	Enlarge Culverts under Roadway and Railroad (Intersection of New Jersey Transit and Poplar Brook)	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.	Mitigation - Continuity of Fuctional Use	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Winter Storm	Low	High	Township Manager, DPW, County Roads/Bridge Depts. and	Municipal budget, FEMA HMA	\$4,000,000.00	3 years	Ongoing
38_13	Create a Detention Pond near Joe Palaia Park	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.	Mitigation - Continuity of Fuctional Use	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm	Low	Low	Township Manager, DPW and Engineer	Municipal budget	\$5,000,000.00	3 years	Ongoing
38_14	Construct a Flood Wall along Poplar Brook	Build a flood wall along the rear properties of the houses on Brookside Ave. along the banks of the Poplar Brook.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm	High	Medium	Township Manager, Police, DPW, Green Acres, County Open Space	FEMA HMA	\$1,882,772.00	2 years	Ongoing
38_15	Enlarge Culverts under Roadway and Railroad (Whalepond Brook)	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.	Mitigation - Continuity of Fuctional Use	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm	Low	Medium	Township Manager, DPW, County Roads/Bridge Depts. and	Municipal budget	\$4,000,000.00	3 years	Ongoing
38_16	Purchase Joanna Ct. Property for Detention Pond	Acquire Repetitive Loss Property, demolish the property, and create detention pond to alleviate flooding along Poplar Brook.	Mitigation - Risk Reduction	Natural Systems Protection	Flood, Nor'easter, Hurricane and Tropical Storm	High	Medium	Township	FEMA HMA	\$700,000.00	2 years	New
38_17	Target Harden Municipal Complex and Schools by Installing Surveillance Cameras, Panic Buttons, Metal Detectors, and/or Bulletproof Glass	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.	Maintenance/Respon se/Recovery	Structure and Infrastructure Project	Terrorism	Low	Low	Township Council	Homeland Security grants		2 years	New

Community Action #	Action Name	Action Description	Action Category	Action Type	Hazard(s) Addressed	Priority	Ease of Implementation	Responsible Party	Potential Funding Sources	Cost Estimate	Timeline	Action Status
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Monmouth County Mitigation Action Worksheets

Community Action Number: 38_01

Ocean, Township 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:	Property Acquisition and Structure Demolition
Action Description:	Acquire 28 Repetitive Loss Properties to purchase, demolition, and maintain as open space or elevate the structure.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm
Goals:	3, 6
Risk Reduction:	Flooding damage to buildings and properties during hurricane, tropical storm, nor'easter, winter storm, flood, and storm surge. Dozens of homes in the 10-year flood zone on Brookside Avenue are susceptible to flooding during severe storms.
Technical:	Technically feasible.
Political:	Political actions present in support of effort.
Legal:	No legal issues.
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:	Township has sufficient capacity and experience to administer this action
Local Champion:	Township Manager, OEM, DPW, Police, elected officials
Other Community Objectives:	
STAPLEE Evaluation:	11

Implementing the Action

Cost Estimate:	\$12,600,000.00
Priority:	High
Scale of Ease of Implementation:	Medium
Responsible Party:	Township Manager, Police, DPW, Green Acres, County Open Space office and Engineer
Local Planning Mechanism:	Township Manager, DPW, Engineer and OEM
Likely Funding Source(s):	FEMA HMA
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; 20 of the 33 RL properties are mitigated; 2 of the 3 SRL properties are mitigated. \$2,207,820 was awarded through the HMGP grant to Poplar Village and \$2,046,126 for Phase II Poplar Village.

Monmouth County Mitigation Action Worksheets

Community Action Number: 38_02

Ocean, Township of

Describing the Action

Action Name:	Clean and Desilt Poplar Brook and Whalepond Brook
Action Category:	Maintenance/Response/Recovery
Action Type:	Natural Systems Protection
HMA Eligible Activity:	Miscellaneous/Other/NA
Action Description:	Dredge the length of both Poplar Brook and Whalepond Brook to remove all obstructions. Remove snagging and debris from floodway and dredging up to two feet of silt.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm
Goals:	2, 3, 5, 6
Risk Reduction:	Obstructions along the length of Poplar Brook and Whalepond Brook (silt, snags, debris) cause flooding of properties and roadways.
Technical:	Technically feasible.
Political:	Political actions present in support of effort.
Legal:	Since stream is a natural border with adjoining town, might have to discuss impacts with adjacent municipalities; may need NJDEP permits.
Environmental:	There are areas that will needed to be examined along the stream, but no major issues to be dealt with known at this time.
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 agencies can oversee the removal and maintenance.
Local Champion:	Township Manager, Engineer, OEM and DPW
Other Community Objectives:	storm drain improvements
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$1,000,000.00
Priority:	Medium
Scale of Ease of Implementation:	Low
Responsible Party:	Township Manager, DPW, County Mosquito Commission and Engineer
Local Planning Mechanism:	Local officials and County agencies; adjoining town on border with stream and where the outfall is located.
Likely Funding Source(s):	Municipal budget
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; permit issue was resolved, and the project is back on track.

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 Fuctional 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:	
Scale of Ease of Implementation:	
Responsible Party:	Township Manager, DPW, NJDEP, Deal Lake Commission and Engineer
Local Planning Mechanism:	Local officials, County and State agencies
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:	
Scale of Ease of Implementation:	
Responsible Party:	Township Manager, Police, DPW and Engineer
Local Planning Mechanism:	Township Manager, DPW, Engineer, Police and OEM
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
Scale of Ease of Implementation:	Low
Responsible Party:	Monmouth County officials, OT Township Manager, DPW, and Engineer
Local Planning Mechanism:	Town officials from Ocean, West Long Branch and Eatontown, OT Township Manager, DPW, Engineer, county officials
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
Scale of Ease of Implementation:	Low
Responsible Party:	Township Manager, School administration, DPW, and Engineer
Local Planning Mechanism:	Township Manager, DPW, Engineer, school maintenance and OEM
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
Scale of Ease of Implementation:	Low
Responsible Party:	Township Manager, DPW, NJDEP, Deal Lake Commission and Engineer
Local Planning Mechanism:	Local officials, County and State agencies
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:	
Scale of Ease of Implementation:	
Responsible Party:	Township Manager, DPW, NJDEP, Deal Lake Commission and Engineer
Local Planning Mechanism:	Local officials, County and State agencies
Likely Funding Source(s):	NFWF grant application for planning/design submitted by DLC, may be possible to secure 319 grant for implementation
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
Scale of Ease of Implementation:	Medium
Responsible Party:	Township Manager, DPW, NJDEP, Deal Lake Commission and Engineer, Monmouth County
Local Planning Mechanism:	Local officials, County and State agencies
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 Fuctional 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
Scale of Ease of Implementation:	Medium
Responsible Party:	Township Manager, DPW, NJDEP, Deal Lake Commission and Engineer
Local Planning Mechanism:	Local officials, County and State agencies.
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
Scale of Ease of Implementation:	Medium
Responsible Party:	Township Manager, DPW, NJDEP, Deal Lake Commission and Engineer
Local Planning Mechanism:	Local officials, County and State agencies
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 Fuctional 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
Scale of Ease of Implementation:	High
Responsible Party:	Township Manager, DPW, County Roads/Bridge Depts. and Engineer
Local Planning Mechanism:	Township Manager, DPW, Engineer, State DEP, NJ Transit, County Roads/Bridge Depts. and OEM
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 Fuctional 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
Scale of Ease of Implementation:	Low
Responsible Party:	Township Manager, DPW and Engineer
Local Planning Mechanism:	Township Manager, DPW, Engineer, State DEP and OEM
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
Scale of Ease of Implementation:	Medium
Responsible Party:	Township Manager, Police, DPW, Green Acres, County Open Space office and Engineer
Local Planning Mechanism:	Township Manager, DPW, Engineer and OEM
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 Fuctional 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
Scale of Ease of Implementation:	Medium
Responsible Party:	Township Manager, DPW, County Roads/Bridge Depts. and Engineer
Local Planning Mechanism:	Township Manager, DPW, Engineer, State DEP, NJ Transit, County Roads/Bridge Depts. and OEM
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
Scale of Ease of Implementation:	Medium
Responsible Party:	Township
Local Planning Mechanism:	Hazard Mitigation Plan
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
Scale of Ease of Implementation:	Low
Responsible Party:	Township Council
Local Planning Mechanism:	Hazard Mitigation Plan
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	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	Yearly road reconstruction Headwall 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 FRAMES• Strategic 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	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	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.

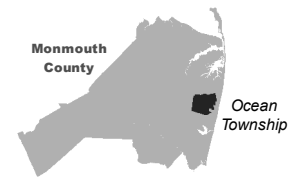
Funding Resource	Access / Eligibility (Yes/No)	Has the funding resource been used in the past and for what type of activities? Could the resource be used to fund future mitigation actions?
Capital Improvements Project Funding	Yes	roadway reconstruction, heavy equipment purchases, headwall improvements
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		



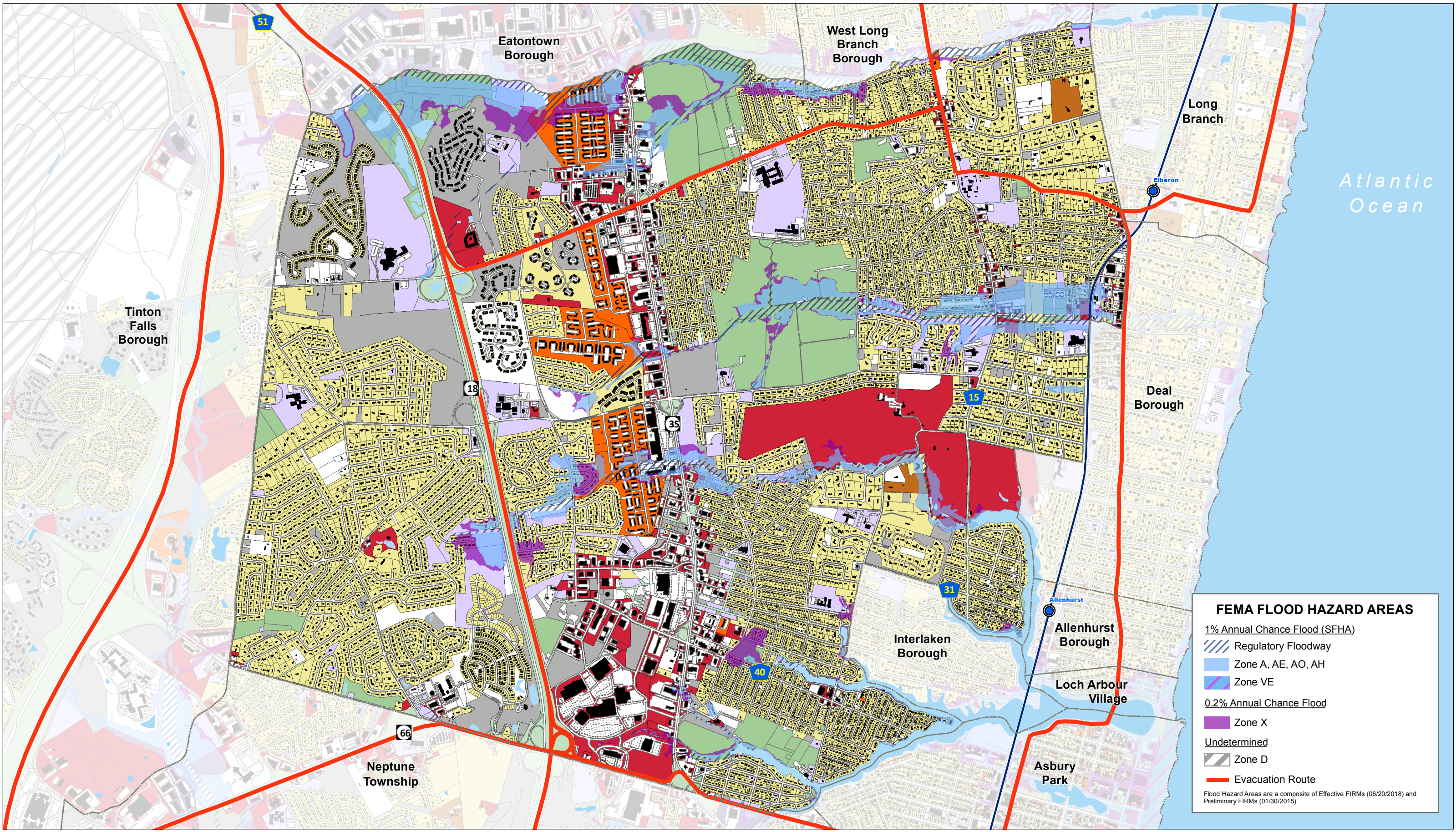
Parcel Classification

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

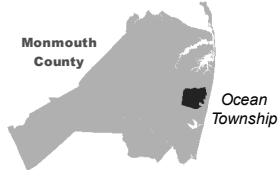
Undetermined

- 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.



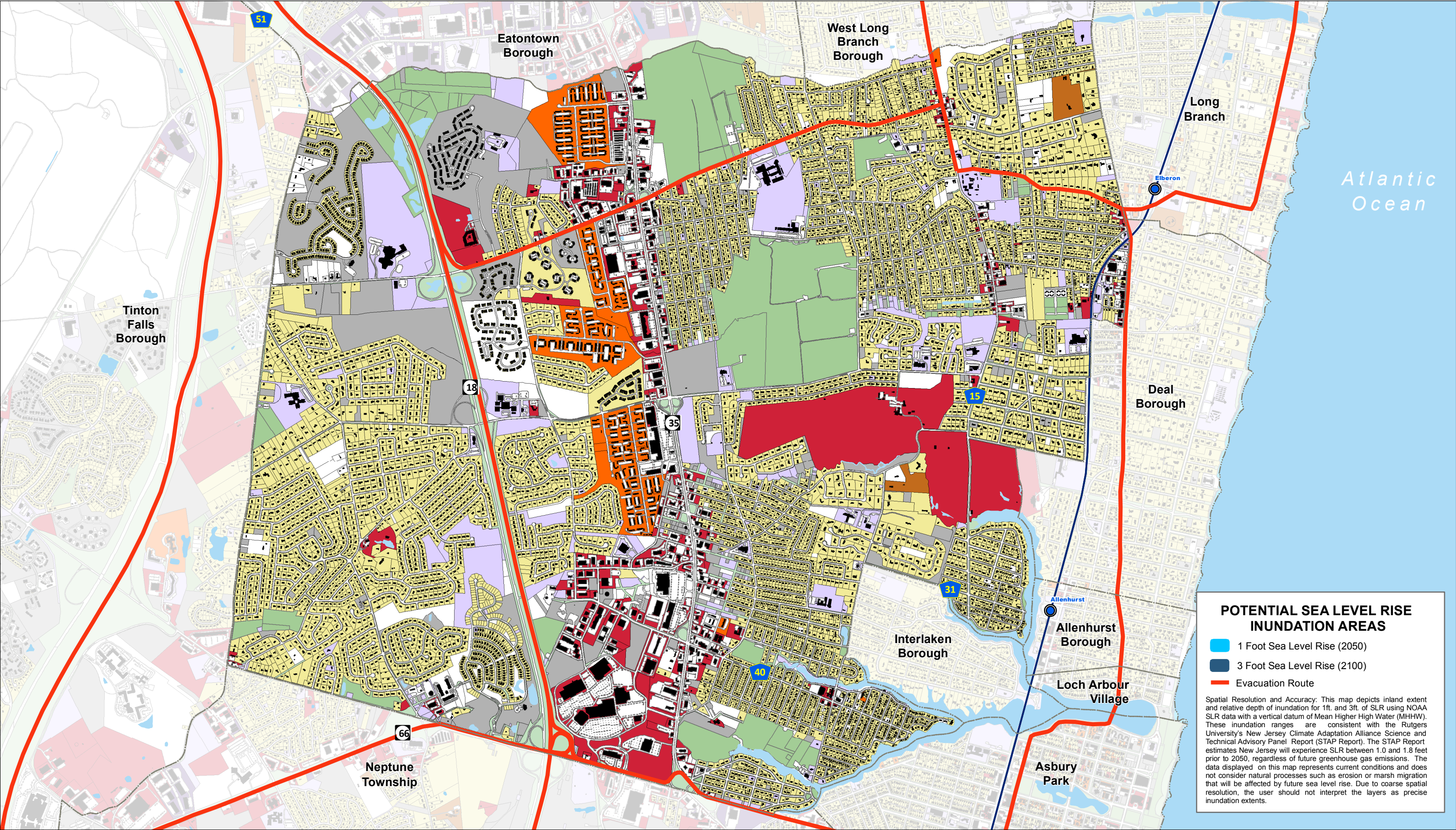
- Parcel Classification
- | | | | | |
|------------|------------|---------------------------|-------------------------------------|------------|
| Industrial | Commercial | Apartment | Residential (four families or less) | |
| Farm | Vacant | Civic/Public (Tax Exempt) | Unclassified | Open Space |

01,0502,100

Feet

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

Projection: New Jersey State Plane, NAD 1983



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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
 - 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@oceanwp.org
	Crochet	Thomas	Dir. of Public Works	Twp. of Ocean	tcrochet@oceanwp.org
	Kirk	Ronald	Director of Community Development	Ocean Twp	RKirk@oceanwp.org
	Ashman	Brittany	Planner	MB	
	Sorrentino	Michael	Police Dept Capt.	OTPD	msorantino@oceanwp.org
	Ceruso	Tom	Dein Director	OT	tceruso@oceanwp.org
	Muscillo	Mike	Twp. Manager	OT	mmuscillo@oceanwp.org