

Appendix Vol I.6 Avon-by-the-Sea 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

415 Policies In-force

295 Total Losses

\$14,467,372 Total Payments

19 Number of RL Properties

9 Number Mitigated
RL Properties

53 RL - Total Losses

\$3,038,709 RL - Total Paid

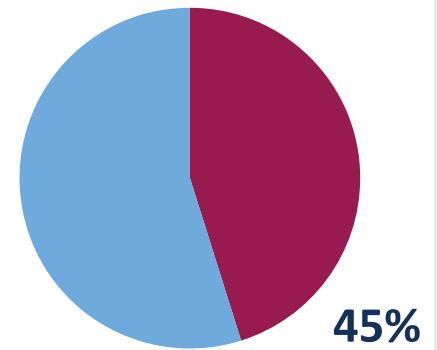


1 Number of SRL Properties

0 Number Mitigated SRL
Properties

0 SRL - Total Losses

\$0 SRL - Total Paid



Percent Land Area Within SFHA

9

Total Mitigation
Actions

1



Education and Awareness Programs

6



Structure and Infrastructure Projects

1



Local Plans and Regulations

1



Natural Systems Protection

Critical Facilities



6 Critical Facilities

0 Critical Infrastructure

30 Historic & Cultural Resources



0 SV Population At Risk (2017)

819 Population at Risk (2017)

Avon-by-the-Sea, Borough 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
06_01	Increase Hazard Education and Risk Awareness	Development of an emergency preparedness resource within the Borough Library for use throughout the year by residents and visitors. Also, website updates, social media, bi-annual newsletter, and community gatherings such as Nation Night Out.	Administrative	Education and Awareness Programs	All Hazards			OEM Deputy Coordinator and Library Director.				Completed
06_02	Protect Municipal Structures and Infrastructure	Review the vulnerability of municipal facilities to impacts from flooding, wind and related exposures, and implement projects to reduce these vulnerabilities.		Structure and Infrastructure Project	Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge			Borough Administrator supported by OEM Duty Coordinator		\$3,000,000.00		Completed
06_03	Dredge Sylvan Lake and Remove Sediment	Overall goal of project is to reduce sediment levels within the Sylvan Lake Drainage Basin to improve the health of the waterway and to provide additional capacity for stormwater runoff and coastal inundation during storm surge. The Borough would like to more living shorelines to soften the lake edges.	Maintenance/Response/Recovery	Natural Systems Protection	Flood, Nor'easter, Hurricane and Tropical Storm	Low	Low	Borough Administrator supported by OEM Duty Coordinator	NRCS grants, Municipal budget, The Nature Conservancy (TNC)	\$1,000,000.00	2 years	Ongoing
06_04	Increase Number of Staff to Manage Floodplain Development	Local Floodplain management was a split responsibility in the past; full time staff has been added to address flood management along with construction and zoning issues (mid 2013 with immediate impact on addressing outstanding issues and rebuilding from Sandy).	Administrative	Local Plans and Regulations	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge			Construction Official				Completed
06_05	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 155 Flood-prone Properties, especially Repetitive Loss (RL) and Severe Repetitive Loss (SRL) Properties.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Medium	This project is managed cooperatively with the Construction	FEMA HMA	\$4,650,000.00	5 + years	Ongoing
06_06	Construct a Tide Value for Sylvan Lake	Coordinate with Bradley Beach on constructing a Tide Value to lower the level of the lake.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Medium	Avon-by-the-Sea; Bradley Beach	FEMA HMA, Municipal budget		2 years	New
06_07	Fortify Sewer Pump Station to Provide for Continuity of Operations During Storm Events	Elevate and flood-proof sewer pump station to provide for continuity of operations during storm events.	Mitigation - Continuity of Fuctional Use	Structure and Infrastructure Project	Flood, Hurricane and Tropical Storm, Storm Surge	Medium	Low	Borough	FEMA HMA	\$100,000.00	1 year	New
06_08	Construct Backflow Preventors along Shark River and Rebuild Stormwater Infrastructure	Construct backflow preventors at the end of all the streets that terminate at Shark River (1st Ave - 5th Ave) and rebuild stormwater infrastructure and manholes alongside the backflow preventor construction.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Medium	Borough	FEMA HMA		3 years	New

Avon-by-the-Sea, Borough 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
06_09	Upgrade Surveillance Systems at Critical Facilities	Upgrade surveillance system and connect the school and municipal facilities feed into one combined system.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Terrorism	Low	Low	Borough	Homeland Security grants		1 year	New

Monmouth County Mitigation Action Worksheets

Community Action Number: 06_01

Avon-by-the-Sea, Borough of

Describing the Action

Action Name:	Increase Hazard Education and Risk Awareness
Action Category:	Administrative
Action Type:	Education and Awareness Programs
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Development of an emergency preparedness resource within the Borough Library for use throughout the year by residents and visitors. Also, website updates, social media, bi-annual newsletter, and community gatherings such as Nation Night Out.

Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	4
Risk Reduction:	The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level of disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities.
Technical:	This action is technically feasible.
Political:	The Office of Emergency Management receives support from both the Public and the Elected Officials in the Borough.
Legal:	Avon-By-The-Sea has the full legal authority to implement this action.
Environmental:	There are no environmental implications with this action.
Social:	There are no social implications with this action.
Administrative Capability:	Performed with in-house staff at no cost.
Local Champion:	OEM Deputy Coordinator in conjunction with library director.
Other Community Objectives:	There are no other objectives associated with this action.
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	
Scale of Ease of Implementation:	
Responsible Party:	OEM Deputy Coordinator and Library Director.
Local Planning Mechanism:	Annually the LEPC will discuss and implement update as necessary.
Likely Funding Source(s):	
Timeline:	
Action Status:	Completed
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 06_02

Avon-by-the-Sea, Borough of

Describing the Action

Action Name:	Protect Municipal Structures and Infrastructure
Action Category:	
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Structural Retrofitting of Existing Buildings
Action Description:	Review the vulnerability of municipal facilities to impacts from flooding, wind and related exposures, and implement projects to reduce these vulnerabilities.

Evaluating the Action

Hazard(s) Addressed:	Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 6, 7
Risk Reduction:	Much of the Borough's critical facilities are located in flood and/or surge hazard areas (police, fire, EMS, and the water treatment plant).
Technical:	Design work with Engineers and Architects providing technical guidance to support in house staff.
Political:	Elected officials have been highly supportive of these efforts.
Legal:	There are no potential impacts as these facilities are owned by the Borough.
Environmental:	Where facilities are being rebuilt environmental issues have the potential to arise and in order to address them.
Social:	Social implications are not anticipated as these were existing facilities. As for the ongoing Vulnerability Assessments we do not anticipate any issues.
Administrative Capability:	Performed with in-house staff at no cost.
Local Champion:	Borough Administrator with support from Deputy OEM Coordinator.
Other Community Objectives:	Re-building of damaged facilities does tie into capital improvement programs.
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$3,000,000.00
Priority:	
Scale of Ease of Implementation:	
Responsible Party:	Borough Administrator supported by OEM Duty Coordinator
Local Planning Mechanism:	Engineers and Architects used to support in house resources
Likely Funding Source(s):	
Timeline:	
Action Status:	Completed
Notes:	DPW was wiped out by Sandy and now is rebuilt with flood vents. The office portion of the building is above flood zone, and the garages have shelves (elevated). The overall grade of the property has gone up 18" (drew BFE on wall to set up shelving); generators above the flood elevation; developed evacuation plan for vehicles.

Monmouth County Mitigation Action Worksheets

Community Action Number: 06_03

Avon-by-the-Sea, Borough of

Describing the Action

Action Name:	Dredge Sylvan Lake and Remove Sediment
Action Category:	Maintenance/Response/Recovery
Action Type:	Natural Systems Protection
HMA Eligible Activity:	Floodplain and Stream Restoration
Action Description:	Overall goal of project is to reduce sediment levels within the Sylvan Lake Drainage Basin to improve the health of the waterway and to provide additional capacity for stormwater runoff and coastal inundation during storm surge. The Borough would like to more living shorelines to soften the lake edges.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm
Goals:	2, 3, 5, 6
Risk Reduction:	Avon-By-The-Sea is exposed to hazards from coastal storms as well as heavy rain events that may bring runoff from neighboring communities into the Sylvan Lake drainage area. The floodplain is primarily around Sylvan Lake and the Shark River Inlet. Walls around the Lake are in need of mitigation. Sediment is accumulation in the lake.
Technical:	Design work with engineering firms providing technical guidance to support in house staff.
Political:	Elected officials have been highly supportive of these efforts.
Legal:	Cooperative effort between the Borough of Avon and Bradley Beach as both Boroughs border the retention area.
Environmental:	Environmental impact is an improvement in water quality and conditions in and around the retention area.
Social:	The only social impact from this action anticipated is a positive one as flood risk would be reduced and water quality improved.
Administrative Capability:	Performed with in-house staff at no cost.
Local Champion:	Borough Administrator with support from Deputy OEM Coordinator
Other Community Objectives:	Other objective addressed by this action would be expanding our stormwater management and preservation of open space.
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$1,000,000.00
Priority:	Low
Scale of Ease of Implementation:	Low
Responsible Party:	Borough Administrator supported by OEM Duty Coordinator
Local Planning Mechanism:	Engineers and used to support in house resources including environmental commission Monmouth County resources
Likely Funding Source(s):	NRCS grants, Municipal budget, The Nature Conservancy (TNC)
Timeline:	2 years
Action Status:	Ongoing
Notes:	Ongoing 2015 action; some work was completed after Superstorm Sandy in coordination with Monmouth County Shade Tree Commission however there is more work that must be complete. A living shoreline was built along the southeastern corner of the lake; the Borough would like more living shorelines.

Monmouth County Mitigation Action Worksheets

Community Action Number: 06_04

Avon-by-the-Sea, Borough of

Describing the Action

Action Name:	Increase Number of Staff to Manage Floodplain Development
Action Category:	Administrative
Action Type:	Local Plans and Regulations
HMA Eligible Activity:	Floodplain and Stream Restoration
Action Description:	Local Floodplain management was a split responsibility in the past; full time staff has been added to address flood management along with construction and zoning issues (mid 2013 with immediate impact on addressing outstanding issues and rebuilding from Sandy).

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 5, 6
Risk Reduction:	Local flood management was not consistent and lacked the focus of full-time staff.
Technical:	In house staff receiving training and Borough is participating in the CRS and other floodplain management
Political:	Elected officials have been highly supportive of these efforts.
Legal:	The Borough has legal authority to enforce actions through local ordinance and state laws.
Environmental:	By taking these actions we reduce future losses and promote sound development.
Social:	The Borough does not anticipate and social impact from this action.
Administrative Capability:	Performed with in-house staff at no cost.
Local Champion:	Borough Construction Official with support of OEM Deputy Coordinator
Other Community Objectives:	This action will assist the Borough with its participation in the CRS.
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	
Scale of Ease of Implementation:	
Responsible Party:	Construction Official
Local Planning Mechanism:	This action is directed by local ordinance.
Likely Funding Source(s):	
Timeline:	
Action Status:	Completed
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 06_05

Avon-by-the-Sea, 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 155 Flood-prone Properties, especially Repetitive Loss (RL) and Severe Repetitive Loss (SRL) Properties.

Evaluating the Action

Hazard(s) Addressed:	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 5
Risk Reduction:	Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.
Technical:	Elevation of a structure is technically feasible and a proper mitigation activity.
Political:	Our political leadership is very supportive of this type of project.
Legal:	While the municipality does not own the structures in questions, we fully support the homeowners in moving forward. We are currently assisting homeowners with obtaining grant funding and ICC Claims.
Environmental:	No environmental impacts are anticipated as a result of elevating the homes. Homes that have been accepted into the State HMGP do have an environmental reviews and inspections conducted.
Social:	No particular social group in our community is likely to be disproportionately impacted by this project.
Administrative Capability:	Our municipality has the administrative capabilities to manage an elevation project through our construction department.
Local Champion:	Not only affected homeowners but the community as a whole and local government.
Other Community Objectives:	This objective is aligned with the Boroughs objective of obtaining a better CRS rating.
STAPLEE Evaluation:	11

Implementing the Action

Cost Estimate:	\$4,650,000.00
Priority:	High
Scale of Ease of Implementation:	Medium
Responsible Party:	This project is managed cooperatively with the Construction Department, Floodplain Administrator and the Office of
Local Planning Mechanism:	Homes in the Borough that have been substantially damaged must be raised.
Likely Funding Source(s):	FEMA HMA
Timeline:	5 + years
Action Status:	Ongoing
Notes:	HGMP \$21,525,000 for elevation of 113 homes pending obligation as of 2020

Monmouth County Mitigation Action Worksheets

Community Action Number: 06_06

Avon-by-the-Sea, Borough of

Describing the Action

Action Name:	Construct a Tide Value for Sylvan Lake
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Localized Flood Risk Reduction Projects
Action Description:	Coordinate with Bradley Beach on constructing a Tide Value to lower the level of the lake.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 5, 6
Risk Reduction:	Avon-By-The-Sea is exposed to hazards from coastal storms as well as heavy rain events that may bring runoff from neighboring communities into the Sylvan Lake drainage area. The floodplain is primarily around Sylvan Lake and the Shark River Inlet. Walls around the Lake are in need of mitigation. Sediment is accumulation in the lake.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected.
Legal:	Need assistance from Bradley Beach, as the tide valve would be located on both Avon-by-the-Sea and Bradley Beach properties. Also, may require DEP permitting.
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 may reduce the risk of flooding around the lake.
Administrative Capability:	Borough has sufficient capacity and experience to administer this action.
Local Champion:	Administrator, OEM
Other Community Objectives:	
STAPLEE Evaluation:	9

Implementing the Action

Cost Estimate:	
Priority:	High
Scale of Ease of Implementation:	Medium
Responsible Party:	Avon-by-the-Sea; Bradley Beach
Local Planning Mechanism:	Hazard Mitigation Plan
Likely Funding Source(s):	FEMA HMA, Municipal budget
Timeline:	2 years
Action Status:	New
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 06_07

Avon-by-the-Sea, Borough of

Describing the Action

Action Name:	Fortify Sewer Pump Station to Provide for Continuity of Operations During Storm Events
Action Category:	Mitigation - Continuity of Fuctional Use
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Infrastructure Retrofit
Action Description:	Elevate and flood-proof sewer pump station to provide for continuity of operations during storm events.

Evaluating the Action

Hazard(s) Addressed:	Flood, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 6, 7
Risk Reduction:	The sewer pump stations are at risk of power failure and flooding damage, which could expose sewage to the community.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected.
Legal:	No legal impediments anticipated.
Environmental:	No adverse environmental impact anticipated
Social:	This action promotes public health objectives.
Administrative Capability:	Borough has sufficient capacity and experience to administer this action.
Local Champion:	Administrator, OEM
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$100,000.00
Priority:	Medium
Scale of Ease of Implementation:	Low
Responsible Party:	Borough
Local Planning Mechanism:	
Likely Funding Source(s):	FEMA HMA
Timeline:	1 year
Action Status:	New
Notes:	The Sanitary Sewer Lift Station was awarded FEMA 406 Public Assistance funding after Sandy of \$14k for repairs.

Monmouth County Mitigation Action Worksheets

Community Action Number: 06_08

Avon-by-the-Sea, Borough of

Describing the Action

Action Name:	Construct Backflow Preventors along Shark River and Rebuild Stormwater Infrastructure
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Localized Flood Risk Reduction Projects
Action Description:	Construct backflow preventors at the end of all the streets that terminate at Shark River (1st Ave - 5th Ave) and rebuild stormwater infrastructure and manholes alongside the backflow preventor construction.

Evaluating the Action

Hazard(s) Addressed:	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 5, 6
Risk Reduction:	A majority of the properties that are along the streets that terminate at Shark River are in a Special Flood Hazard Area and experienced flooding during Sandy. Backflow preventors will prevent flooding. Additionally, the stormwater piping and manholes need to be upgraded to prevent flooding in this area of the borough.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected.
Legal:	May need to work with DOT and private property owners if the work is in their jurisdiction.
Environmental:	This action will help the stormwater return to the Shark River instead of picking up contaminants on the roadways.
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:	Borough has sufficient capacity and experience to administer this action.
Local Champion:	Administrator, OEM
Other Community Objectives:	
STAPLEE Evaluation:	8

Implementing the Action

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

Monmouth County Mitigation Action Worksheets

Community Action Number: 06_09

Avon-by-the-Sea, Borough of

Describing the Action

Action Name:	Upgrade Surveillance Systems at Critical Facilities
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Upgrade surveillance system and connect the school and municipal facilities feed into one combined system.

Evaluating the Action

Hazard(s) Addressed:	Terrorism
Goals:	1, 2, 3, 5, 7
Risk Reduction:	An upgraded surveillance system at the school and municipal facilities will increase protection from a potential threat of terrorism.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected.
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, Police
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	Low
Scale of Ease of Implementation:	Low
Responsible Party:	Borough
Local Planning Mechanism:	Hazard Mitigation Plan
Likely Funding Source(s):	Homeland Security grants
Timeline:	1 year
Action Status:	New
Notes:	

CAPABILITY ASSESSMENT WORKSHEET

Name: Ken Child

Title: OEM Coordinator

Jurisdiction: Avon-by-the-Sea 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	
Capital Improvements Plan	Yes	
Economic Development Plan	Yes	
Local Emergency Operations Plan	Yes	
Continuity of Operations Plan		
Post-Disaster Recovery Plan	Yes	
Transportation Plan		
Stormwater Management Plan		
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	No	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	
Natural hazard ordinance (stormwater, steep slope, wildfire)		
Flood Insurance Rate Maps	Yes	CRS, Class 5 or 6
Acquisition of Land for Open Space and Public Recreation Uses		
Post-Disaster Recovery Ordinance	No	
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		
Maintenance Programs to Reduce Risk (e.g., tree trimming, clearing drainage systems)		
Mutual Aid Agreements		One Countywide-own equipment together
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, zoning official, and floodplain administrator
Floodplain Administrator	Yes	FT construction official, zoning official, and floodplain administrator
Emergency Manager	Yes	PT, Deputy FT
Community Planner	No	



CAPABILITY ASSESSMENT WORKSHEET

Civil Engineer	Yes	TEM Consultant
Surveyor	No	
GIS Coordinator	No	Work with County GIS
Scientists familiar with the hazards of the community	Yes	
Other	No	
Technical	Yes/No	Describe capability Has capability been used to access/mitigate risk in the past?
Warning Systems/Services (Reverse 911, outdoor warning signals)		
Hazard Data and Information		
Grant Writing	Yes	
Hazus Analysis	No	
Other	Yes	Protection from cyber security have been initiated by the Borough.
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	No	
Stormwater Utility Fee		
Incur Debt Through Private Activities	Yes	
Community Development Block Grant	Yes	
Other Federal Funding Programs	No	
State Funding Programs		
Other (e.g., withhold spending in hazard-prone areas)	Yes	Withhold spending in hazard-prone areas, Incur Debt through General Obligation Funds, and Incur Debt through Special Tax and Revenue Bond
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)		
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?		





AVON-BY-THE-SEA BOROUGH FLOOD VULNERABILITY

MONMOUTH COUNTY HAZARD MITIGATION PLAN



Building Classification

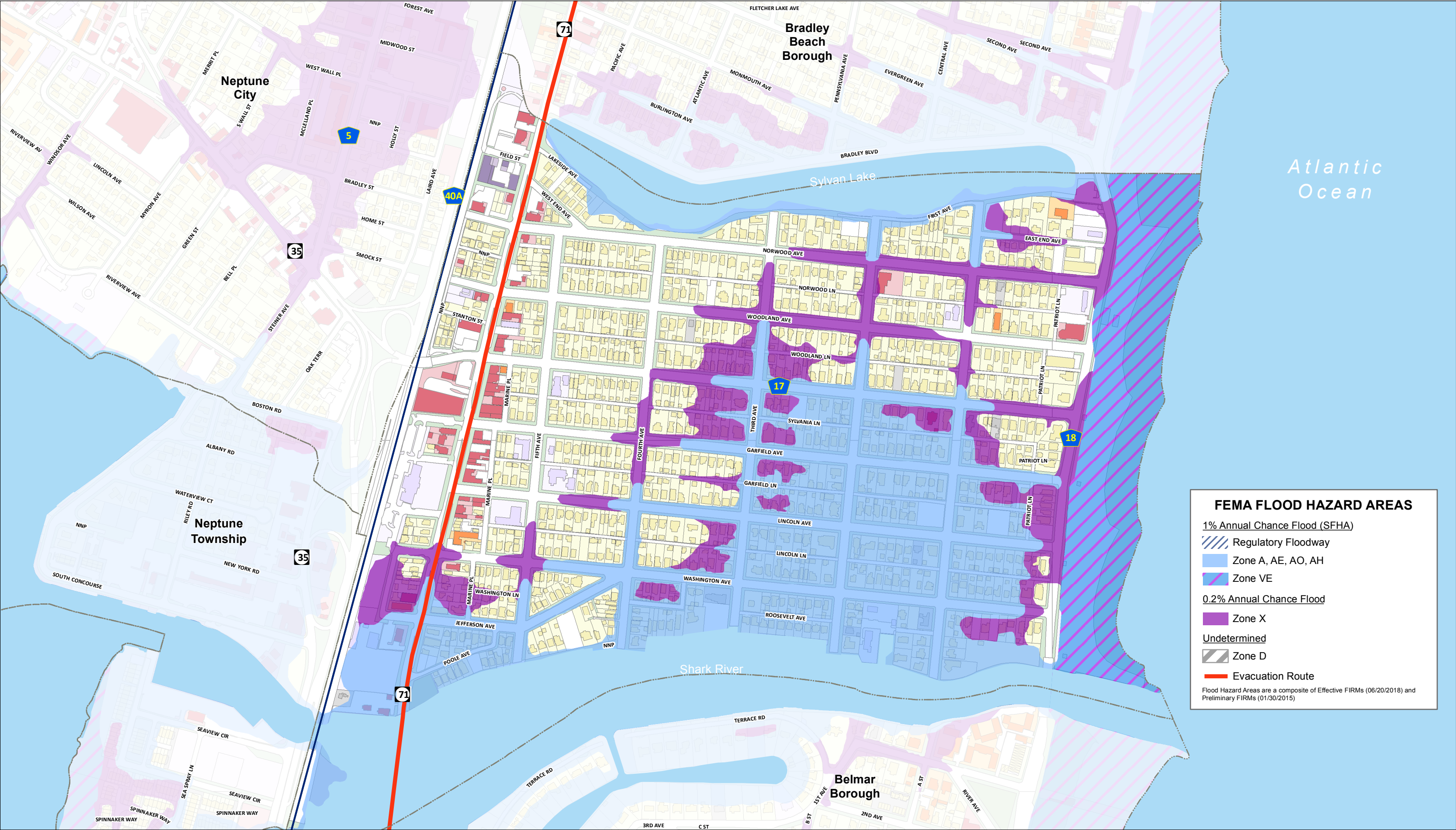
Industrial	Commercial	Apartment	Residential (four families or less)
Farm	Vacant	Civic/Public (Tax Exempt)	Unclassified

Parcel Classification

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

0 250 500 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.



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

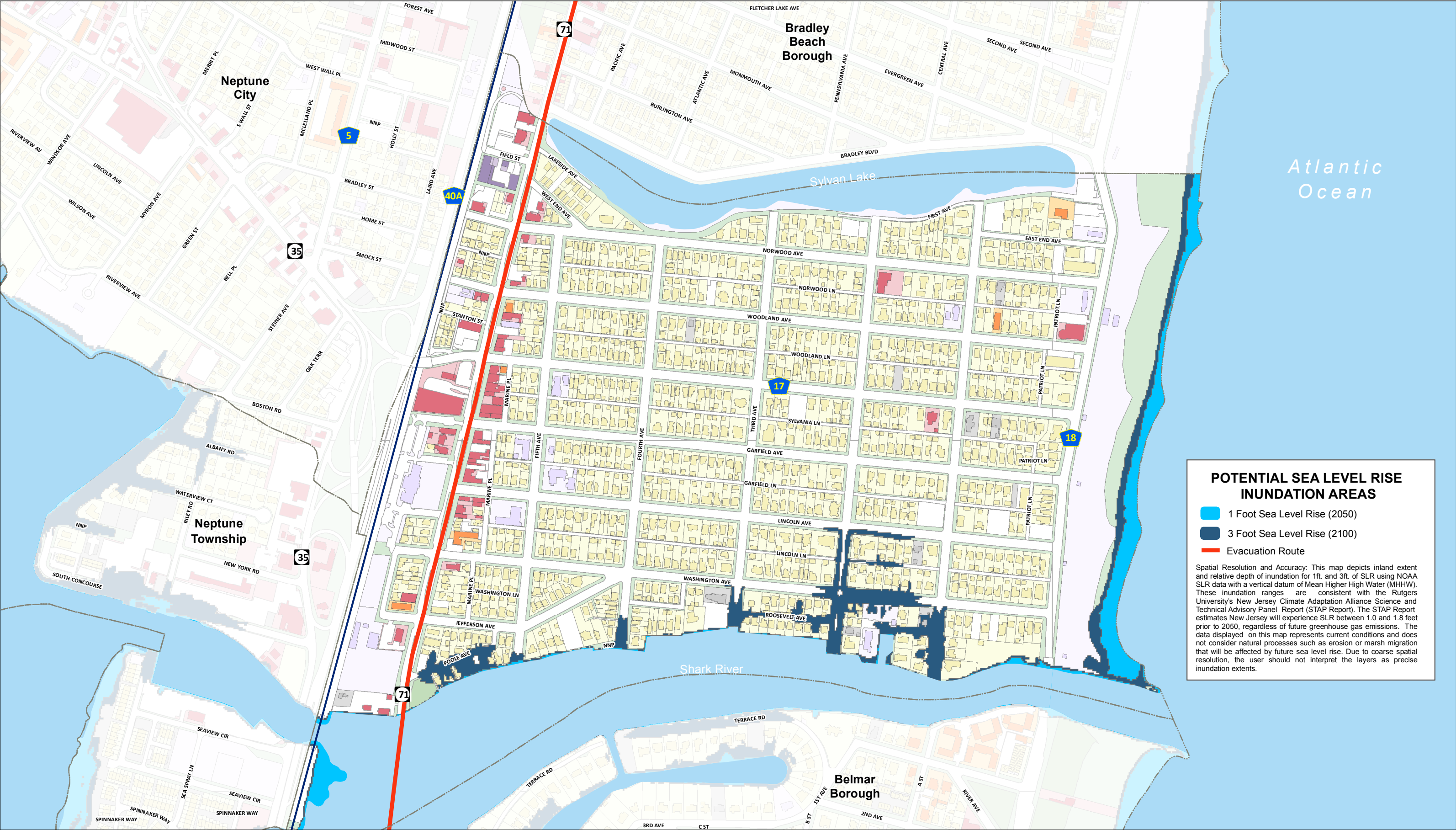
Open Space

0250500

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: Avon-by-the-Sea- Monmouth County HMP Meeting

Date: June 06, 2019

Time: 2:00 PM- 3:00 PM

Location: 301 Main St, Avon-by-the-Sea

Attendees: Scott Hauslet, DPW Superintendent
Kerry McGuigan, Administrator
Ken Child, OEM Coordinator
Brittany Ashman, MB Planner

Drafted by: Paige Kaspar

Introductions (Brittany):

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

Repetitive Loss Properties:

- Come up with mitigation action to address the 18 RL properties.

Mitigation Actions

1. 06_01 Increase Hazard Education and Risk Awareness-ongoing
 - Had things in the library, had things on the website
 - Move to Capability Assessment under outreach
 - Community Outreach: Emergency Preparedness resource within the Borough Library for use throughout the year by residents and visitors. Also: Web Site updates, social media bi-annual newsletter and community gatherings such as Nation Night Out-Completed, but want to continue the work
 - Have to keep educating people



2. 06_02 Protect Municipal Structures and Infrastructure Project-completed
 - Review the vulnerability of municipal facilities to impacts from flooding, wind and related exposures and implement projects to reduce these vulnerabilities.
 - Public works building was wiped out by Sandy; was rebuilt; it's got flood vents; the office portion is above flood zone; and the garages have shelves (elevated); overall grade of the property has gone up 18 (drew BFE on wall to set up shelving); generators above the flood elevation; developed evacuation plan for vehicles
3. 06_03 Lake dredging and sediment removal to reduce risk of flooding-completed some work, but ongoing
 - Reduce sediment levels within the Sylvan Lake Drainage basin
 - Received \$25,000 grant money from the county?-we paid to truck it away
 - Some work was done after SuperStorm Sandy with the Monmouth County Shade Tree Commission, but still ongoing
4. 06_04 Improve Floodplain Management-completed
5. 06_05 Elevation of 155 flood-prone Residential Structures-ongoing

2020 Mitigation Actions (NEW):

1. 06_06 Coordination with Bradley Beach on the new tide valve at Sylvan Lake to lower water
 - Put money in their budget to do that work
 - If you crank it open it lets the lake be lowered
 - Not a closed valve system
 - Installed a fish ladder which caused backflow issue
 - Historic rain event release
 - Mitigation for a rain event (hurricane/TS)
2. 06_07 Resiliency of Sewer Plant
 - Need to protect pump station generators and controls
3. 06_08 Backflow prevention on all street ends along Shark River; Rebuild stormwater/manholes
4. 06_09 Upgrading surveillance with school and municipal facilities, combined system
5. 06_10 Cyber Security Protection (some progress underway)

Successes

- Mitigated a number of repetitive loss properties
- Living Shoreline on Sylvan Lake-Bradley Beach did a portion on their side, not as big as ours
- Poole Ave.
 - At the bulkhead, water comes in and fills the street. It's one of the first streets in Avon
 - State grant money (NJDOT) to redo the street
- This fall we're doing our first backfill prevention
 - We have money, this is going to be our pilot program on how well it functions
 - There are two or three others that would fit into these other streets



Monmouth County
Multi-Jurisdictional Hazard Mitigation Plan Update



Michael Baker
INTERNATIONAL

Meeting: Avon-by-the-Sea HMP Mtg

Date: 06-06-19

Initial	Last Name	First Name	Title	Organization	Email Address
S.H.	Harseit	Scott	Deputy Co-ordinator	Borough of Avon	dp@avonbythesea.nj.us
SLM	McGuigan	Kearr	Administrative	" "	KMcGuigan@avonbythesea.nj.us
He	CHICO	Ken	Dea. Coordinator	" "	AvonDea.Co@avonbythesea.nj.us
BA	Ashman	Brittany	Planner	MB	



Monmouth County
Multi-Jurisdictional Hazard Mitigation Plan Update



Michael Baker
INTERNATIONAL

Meeting: Marlboro Twp. HMP Mtg

Date: 06-06-19

Initial	Last Name	First Name	Title	Organization	Email Address
BA	Ashman	Brittany	Planner	NB	
KA	KRUE	KEVIN	DIR. COMMUNITY DEV.	MARLBORO TWP.	KRUE@MARLBORO-NJ.GOV
LN	Neumann	Laura	Engineer	CME	lneumann@cmeusa1.com
RM	MILLET	Robert	SECRETARY OF PUBLIC WORKS	Marlboro Twp	BMILLET@MARLBORO-NJ.GOV
PR	Pezzullo	PETER	DEM COORDINATOR	MARLBORO PD	PREZZULLO@MARLBOROPD.ORG
CA	CARR	JENNIFER	Business Administrator	Marlboro	JEN@MARLBORO-NJ.GOV
SK	Hall	Bruce	Police Chief/DEM Coord	Marlboro Twp	behall@marlboro.org