Appendix Vol I.1 Aberdeen 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

122 Polices In-force

71 Total Losses

\$2,867,131 Total Payments

3 Number of RL Properties

Number Mitigated RL Properties

32 RL - Total Losses

\$1,557,242 RL - Total Paid



Number of SRL Properties

Number Mitigated SRL Properties

SRL - Total Losses

\$0 SRL - Total Paid

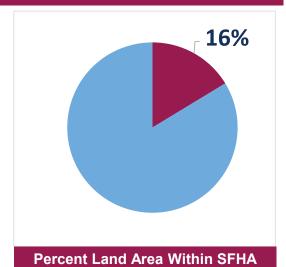
Critical Facilities



25 Critical Facilities

O Critical Infrastructure

f 20 Historic & Cultural Resources



11

Total Mitigation Actions

1



Education and Awareness Programs

6



Structure and Infrastructure Projects

2



Local Plans and Regulations

2



Natural Systems Protection



SV Population At Risk (2017)

2,997 Population at Risk (2017)

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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
01_01	Create a Hazard Mitigation Outreach Program	Create a mitigation outreach program that helps residents prepare for and mitigate disasters. Increase awareness of natural hazard risks and safety. Educate the public about hazard mitigation techniques and promote disaster-resistant development.	Administrative	Education and Awareness Programs	All Hazards			OEM Officer		\$25,000.00		Completed
01_02	Drainage Improvement/Elevation on Flood-prone Roadways	Develop specific mitigation solutions for flood-prone roadways, specifically State Highway 35 at Long Neck Creek, under leadership of NJDOT; Lakeshore Drive at Greenwood Avenue, by Township; and Amboy Avenue under the leadership of Monmouth County. Route 35 is currently under construction; Lakeshore Drive is at advertisement/bid phase; and Amboy Avenue in in planning stage. Work plan for what role the Township can play in selection and implementation of mitigation activities for Amboy Avenue Bridge MA14 reconstruction is being developed, including money/contextual support through the local capital improvement plan for utility relocation. The Township will also assist with public awareness through its website.		Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm			NJDOT/Township Engineer/Townshi p Manager/Monmo uth County		\$550,000.00		Completed
01_03	Acquire, elevate, or relocate buildings and infrastructure in flood prone areas, with a focus on Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties	Elevate, acquire, or floodproof 16 Residential Structures.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Medium	Township Manager, Construction Code Official, Director of Public	FEMA HMA	\$1,000,000.00	5 + years	Ongoing
01_04	Elevate Pumping Stations Above Current BFE or Waterproof Stations	Raise structures, or vulnerable components thereof, to either be above current BFEs, or otherwise waterproofed, to provide resiliency in future events and minimize waste water overflows		Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge			Township Manager, Director of Public Works, Township Engineer	FEMA HMA			Completed
01_05	Repair Recreation Facilities and Sidewalks Near Seawall	Develop specific mitigation solutions for both dunes and sidewalk that would help mitigate future damages and provide a greater level of resiliency.		Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge			Township Manager, Director of Public Works, Township Engineer		\$950,000.00		Completed
01_06	Improve Communications and Create a Community Shelter for Extreme Temperatures	Develop specific mitigation solutions that help residents prepare for and mitigate loss of communications and seasonal severe temperature events by providing a community shelter. This project is intended to protect public health and safety and reduce the number of emergency calls during storm events.		Structure and Infrastructure Project	Extreme Temperatures, Flood, Lightening, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm			Township Manager, Director of Public Works, Township Engineer		\$50,000.00		Completed
01_07	Prepare an Engineering Study for Nuisance Flooded Roads	The intersection of Greenwood Ave., Lakeshore Dr., and Ocean Blvd. experiences flooding during high tides, full moon, heavy rain and/or coastal storm events. An engineering study to prevent the flooding of roadways is needed.	Administrative	Local Plans and Regulations	Flood	Medium	Low	Township	Municipal budget, FEMA HMA	\$100,000.00	1 year	New

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Aberdeen.	Township of		
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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
01_08	Prepare an Engineering Study for Beach Erosion	An engineering study is needed for the constant beach erosion along the beach to the east of Cliffwood Beach Waterfront Park.	Administrative	Local Plans and Regulations	Flood, Wave Action, Coastal Erosion, Hurricane and Tropical Storm	Low	Low	Township	Municipal budget, FEMA HMA		1 year	New
01_09	Install Surveillance Cameras along the Sea Wall	The Township is currently installing surveillance cameras along a portion of the sea wall to monitor natural and human-based hazards. There is a need for more cameras along the second half of the sea wall.	Maintenance/Respon se/Recovery	Structure and Infrastructure Project	Flood, Terrorism, Nor'easter, Hurricane and Tropical Storm, Storm Surge	Low	Low	Township	Homeland Security grants, Municipal budget	\$37,000.00	1 year	New
01_10	Conduct Creek Restoration at Whale Creek and Beach Stabilization at Clifford Beach	Restore salt marshes to enhance their ability to act as natural buffers to reduce impacts of storm-induced surge and waves while creating a maritime forest berm to help provide a buffer to Lakeshore Drive. The proposed wave attenuating devices, dune restoration, and beach replenishment would complete the proposed improvements by reducing the potential for erosion.	Mitigation - Risk Reduction	Natural Systems Protection	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Medium	Township, County	New Jersey Corporate Wetlands Restoration Partnership (NJCWRP), FEMA HMA, National Fish and Wildlife		2 years	New
01_11	Conduct Wetland Restoration at Happy Meadows	Restore marshlands to enhance their ability to act as natural buffers to reduce impacts of storm-induced surge and waves and build a maritime forest berm to provide a buffer to the surrounding residential area.	Mitigation - Risk Reduction	Natural Systems Protection	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Medium	Township, County	New Jersey Corporate Wetlands Restoration Partnership (NJCWRP), FEMA HMA, National Fish and Wildlife		3 years	New

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Community Action Number: 01 01

Aberdeen, Township of

Describing the Action

Action Name: Create a Hazard Mitigation Outreach Program

Action Category: Administrative

Action Type: Education and Awareness Programs

HMA Eligible Activity: Miscellaneous/Other/NA

Action Description: Create a mitigation outreach program that helps residents prepare for and mitigate disasters. Increase awareness of

natural hazard risks and safety. Educate the public about hazard mitigation techniques and promote disaster-

resistant development.

Evaluating the Action

Hazard(s) Addressed: All Hazards

Goals: 3, 4, 5

Risk Reduction: The general public's understanding of natural hazards and mitigation possibilities could be improved. The

community's overall level disaster resistance would increase if a greater number of households undertook /ow-cost

or no-cost, small-scale mitigation activities. Aberdeen has a fairly steady flow of infill development and

redevelopment and its population is increasing, so promoting disaster resistant development will be key to achieving

sustainability.

Technical: Technically feasible.

Political: Supported by municipal council.

Legal: Supported by municipal council.

Environmental: N/A

Social: The proposal will provide outreach to the entire population.

Administrative Capability: Aberdeen Township has the administrative capabilities to manage the project.

Local Champion: Administration and Office of Emergency Management.

Other Community Objectives: Increase Public Awareness and overall resiliency to emergency situations.

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$25,000.00

Priority:

Scale of Ease of Implementation:

Responsible Party: OEM Officer
Local Planning Mechanism: Public Outreach

Likely Funding Source(s):

Timeline:

Action Status: Completed

Community Action Number: 01 02

Aberdeen, Township of

Describing the Action

Action Name: Drainage Improvement/Elevation on Flood-prone Roadways

Action Category:

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Localized Flood Risk Reduction Projects

Action Description: Develop specific mitigation solutions for flood-prone roadways, specifically State Highway 35 at Long Neck Creek,

under leadership of NJDOT; Lakeshore Drive at Greenwood Avenue, by Township; and Amboy Avenue under the leadership of Monmouth County. Route 35 is currently under construction; Lakeshore Drive is at advertisement/bid phase; and Amboy Avenue in in planning stage. Work plan for what role the Township can play in selection and implementation of mitigation activities for Amboy Avenue Bridge MA14 reconstruction is being developed, including money/contextual support through the local capital improvement plan for utility relocation. The Township will also

assist with public awareness through its website.

Evaluating the Action

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

Goals: 3, 5, 6, 7

Risk Reduction: Several roadways in the Township are flood prone. This includes but is not limited to: State Highway 35 at Long Neck

Creek; Lakeshore Drive at Greenwood Avenue; and Amboy Avenue.

Technical: Technically feasible.

Political: Supported by municipal council, NJDOT, and Monmouth County Freeholders.

Legal: No apparent legal issues.

Environmental: Yes. Impacts include reduction in flooding occurrences.

Social: The proposal will provide a benefit to the residents of flood prone sections of the Township and to the region as a

whole.

Administrative Capability: Aberdeen Township has the administrative capabilities to manage the project.

Local Champion: NJDOT, Monmouth County, and Aberdeen Township Council

Other Community Objectives: Yes - the action reduces flooding, enhances emergency response abilities, and protects quality of life and

public and private property.

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$550,000.00

Priority:

Scale of Ease of Implementation:

Responsible Party: NJDOT/Township Engineer/Township Manager/Monmouth County Highway Dept.

Local Planning Mechanism: Capital Improvement Plan Update

Likely Funding Source(s):

Timeline:

Action Status: Completed

Notes: The Township was awarded FEMA Funding 406 Public Assistance C- Roads and Bridges in the following amounts:

Roads & Bridges: \$22,332.02; Roads & Bridges: \$201,204.64; Roads and Bridges: \$253,181.44

These grants replaced 832 lineal feet of guardrails including 65 guard rail support posts; repairs to the Deerfield Footbridge; and load and haul away poured concrete sidewalk, chain link fence, and corrugated elliptical metal pipe (CMP) and replaced with new corrugated elliptical metal pipe, new concrete sidewalk, new chain link fence, and

stabilize 270 SY of slope area.

The Township was awarded HMGP funding of \$393,750 post-Sandy (pending obligation as of 2020)

Community Action Number: 01 03

Aberdeen, 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: Structure Elevation

Action Description: Elevate, acquire, or floodproof 16 Residential Structures.

Evaluating the Action

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

Goals: 1, 2, 3, 5, 6

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: Technically feasible.

Political: Our political leadership supports this type of project.

Legal: While the municipality does not own the structures in questions, we fully support the homeowners in moving

forward and has assisted in expediting applicable permits.

Environmental: No environmental impacts are anticipated as a result of elevating the homes.

Social: No particular social group in our community is likely to be disproportionately impacted by this project.

Administrative Capability: Aberdeen Township has the administrative capabilities to manage an elevation project through the Township

Manager's office, Public Works Department, and the Building Department

Local Champion: Affected homeowners: B 341,L 11;8 367, L 4.01; 8370, L 14; 8371, L 4, 5, 7; & B 376, L 14.

Other Community Objectives: Enhance neighborhood and community relationships through volunteer programs.

STAPLEE Evaluation: 11

Implementing the Action

Cost Estimate: \$1,000,000.00

Priority: High
Scale of Ease of Implementation: Medium

Responsible Party: Township Manager, Construction Code Official, Director of Public Works, Township Engineer

Likely Funding Source(s): Public Outreach

FEMA HMA

Timeline: 5 + years
Action Status: Ongoing

Notes: Ongoing action; the Township deems this action necessary and is searching for potential funding.

Community Action Number: 01 04

Aberdeen, Township of

Describing the Action

Action Name: Elevate Pumping Stations Above Current BFE or Waterproof Stations

Action Category:

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Structure Elevation

Action Description: Raise structures, or vulnerable components thereof, to either be above current BFEs, or otherwise waterproofed, to

provide resiliency in future events and minimize waste water overflows

Evaluating the Action

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

Goals: 1, 2, 3, 5, 6

Risk Reduction: Several wastewater pumping stations structures throughout the community are prone to flooding, with their main

floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe

flooding and surge events.

Technical: Elevation is technically feasible.

Political: The Township Council has support for this project and has authorized funds for same.

Legal: The municipality owns the structures in questions and fully supports the project in moving forward.

Environmental: Favorable environmental impacts are anticipated as a result of elevating or waterproofing components, of the

pump stations by minimizing the potential for

Social: No particular social group in our community is likely to be disproportionately impacted by this project.

Administrative Capability: Aberdeen Township has the administrative capabilities to manage an elevation project.

Local Champion: Township Manager, Director of Public Works, Township Engineer.

Other Community Objectives: Increased resiliency and minimize environmental impacts

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate:

Priority:

Scale of Ease of Implementation:

Responsible Party: Township Manager, Director of Public Works, Township Engineer

Local Planning Mechanism: Capital Improvement Plan

Likely Funding Source(s): FEMA HMA

Timeline:

Action Status: Completed

Notes: The River Garden Pump Station was repaired by a FEMA Funding 406 Public Assistance grant of \$5,969.00. The

Aberdeen Pump Station was replaced and elevated above BFE by a FEMA Funding 406 Public Assistance grant of

\$432,882.

Community Action Number: 01 05

Aberdeen, Township of

Describing the Action

Action Name: Repair Recreation Facilities and Sidewalks Near Seawall

Action Category:

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Mitigation Reconstruction

Action Description: Develop specific mitigation solutions for both dunes and sidewalk that would help mitigate future damages and

provide a greater level of resiliency.

Evaluating the Action

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

Goals:

Risk Reduction: Previously existing dunes and an ADA sidewalk on top of a seawall were damaged and/or destroyed by storm surge.

The elimination of the dunes permitted the storm surge to adversely impact the Township's Beach Park recreation facilities, destroying an in-line skating rink and damaging basketball courts and play equipment. Sea level rise and

climate change will contribute to more frequent and severe flooding and surge events.

Technical: Reconstruction is technically feasible.

Political: The Township Council supports this project.

Legal: The municipality owns the lands and structures in question and fully supports the project moving forward.

Environmental: No adverse environmental impacts are anticipated as a result of reconstructing the dunes and sidewalk.

Social: No particular social group in our community is likely to be adversely impacted by this project.

Administrative Capability: Aberdeen Township has the administrative capabilities to manage the project.

Local Champion: Township Manager, Director of Public Works, Township Engineer

Other Community Objectives: Restore valuable anesthetic facility and recreation facilities to improve neighborhood participation

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$950,000.00

Priority:

Scale of Ease of Implementation:

Responsible Party: Township Manager, Director of Public Works, Township Engineer

Local Planning Mechanism: Township's Capital Improvement Plan update.

Likely Funding Source(s):

Timeline:

Action Status: Completed

Notes: The Township was awarded FEMA Funding 406 Public Assistance G. Recreation of \$300,000 for sidewalk repairs and

\$23,298 for parking lot repairs at Beach Drive, adjacent to the Cliffwood Beach Seawall. The Township was also awarded FEMA Funding 406 Public Assistance G. Recreation \$202,000 for necessary repairs to restore the inline

Hockey Rink to its pre-disaster conditions.

Community Action Number: 01 06

Aberdeen, Township of

Describing the Action

Action Name: Improve Communications and Create a Community Shelter for Extreme Temperatures

Action Category:

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Miscellaneous/Other

Action Description: Develop specific mitigation solutions that help residents prepare for and mitigate loss of communications and

seasonal severe temperature events by providing a community shelter. This project is intended to protect public

health and safety and reduce the number of emergency calls during storm events.

Evaluating the Action

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

Goals: 1, 3, 7

Risk Reduction: Storm events can be accompanied by loss of power, sometimes lasting over an extended period of time, resulting in

a loss of communications, or heat or air conditioning and associated adverse impacts for the young and elderly. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events and power

outages.

Technical: The conversion of an existing fire/first aid building to a community center is technically the conversion of an existing

fire/first aid building to a community center is technically feasible.

Political: The Township Council, and public, support this project

Legal: The municipality owns the structure in question and fully supports the project moving forward.

Environmental: No environmental impacts are anticipated.

Social: No particular social group in our community is likely to be adversely impacted by this project. Public hearings on the

proposal have been held with a favorable input from the local population.

Administrative Capability: Aberdeen Township has the administrative capabilities to manage the reconstruction / conversion project.

Local Champion: Township Manager, Director of Public Works, Township Engineer

Other Community Objectives: Create a Community Center to provide shelter during storm events, a local Police PBA community station, and

seniors activity area.

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$50,000.00

Priority:

Scale of Ease of Implementation:

Responsible Party: Township Manager, Director of Public Works, Township Engineer

Local Planning Mechanism: Hazard Mitigation Plan

Likely Funding Source(s):

Timeline:

Action Status: Completed

Community Action Number: 01 07

Aberdeen, Township of

Describing the Action

Action Name: Prepare an Engineering Study for Nuisance Flooded Roads

Action Category: Administrative

Action Type: Local Plans and Regulations

HMA Eligible Activity: Localized Flood Risk Reduction Projects

Action Description: The intersection of Greenwood Ave., Lakeshore Dr., and Ocean Blvd. experiences flooding during high tides, full

moon, heavy rain and/or coastal storm events. An engineering study to prevent the flooding of roadways is needed.

Evaluating the Action

Hazard(s) Addressed: Flood

Goals: 2, 3, 5, 6, 7

Risk Reduction: Lakeshore Drive has been elevated but still experiences flooding when water comes up through the storm drains.

Technical: Technically feasible.

Political: No apparent political issues.

Legal: No apparent legal issues.

Environmental: No adverse environmental effects.

Social: No particular social group in our community is likely to be adversely impacted by this project.

Administrative Capability: Aberdeen Township has the administrative capabilities to manage the project.

Local Champion: OEM/Police Chief

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: Township

Local Planning Mechanism: Hazard Mitigation Plan

Likely Funding Source(s): Municipal budget, FEMA HMA

Timeline: 1 year

Action Status: New

Community Action Number: 01 08

Aberdeen, Township of

Describing the Action

Action Name: Prepare an Engineering Study for Beach Erosion

Action Category: Administrative

Action Type: Local Plans and Regulations

HMA Eligible Activity: Floodplain and Stream Restoration

Action Description: An engineering study is needed for the constant beach erosion along the beach to the east of Cliffwood Beach

Waterfront Park.

Evaluating the Action

Hazard(s) Addressed: Flood, Wave Action, Coastal Erosion, Hurricane and Tropical Storm

Goals: 6

Risk Reduction: Since the beach is eroding, there is less of a natural barrier of protection against coastal storms.

Technical: Technically feasible.

Political: No apparent political issues.

Legal: No apparent legal issues.

Environmental: No adverse environmental effects.

Social: No particular social group in our community is likely to be adversely impacted by this project.

Administrative Capability: Aberdeen Township has the administrative capabilities to manage the project.

Local Champion: OEM/Police Chief

Other Community Objectives:

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate:

Priority: Low Scale of Ease of Implementation: Low

Responsible Party: Township

Likely Funding Source(s): Hazard Mitigation Plan

Municipal budget, FEMA HMA

Timeline: 1 year
Action Status: New

Community Action Number: 01 09

Aberdeen, Township of

Describing the Action

Action Name: Install Surveillance Cameras along the Sea Wall

Action Category: Maintenance/Response/Recovery

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Miscellaneous/Other

Action Description: The Township is currently installing surveillance cameras along a portion of the sea wall to monitor natural and

human-based hazards. There is a need for more cameras along the second half of the sea wall.

Evaluating the Action

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

Goals: 2, 3, 5, 6, 7

Risk Reduction: The sea wall serves as protection against natural-based hazards, however security is needed along the wall to

monitor incoming coastal storms (flooding, storm surge, hurricanes, tropical storms, and nor'easters) and protect

against human-based hazards that could occur on the wall (terrorism, vandalism, crime).

Technical: Technically feasible.

Political: No apparent political issues.

Legal: No apparent legal issues.

Environmental: No adverse environmental effects.

Social: No particular social group in our community is likely to be adversely impacted by this project.

Administrative Capability: Aberdeen Township has the administrative capabilities to manage the project.

Local Champion: OEM/Police Chief

Other Community Objectives:

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$37,000.00

Priority: Low
Scale of Ease of Implementation: Low

Responsible Party: Township

Local Planning Mechanism: Hazard Mitigation Plan

Likely Funding Source(s): Homeland Security grants, Municipal budget

Timeline: 1 year
Action Status: New

Community Action Number: 01 10

Aberdeen, Township of

Describing the Action

Action Name: Conduct Creek Restoration at Whale Creek and Beach Stabilization at Clifford Beach

Action Category: Mitigation - Risk Reduction
Action Type: Natural Systems Protection

HMA Eligible Activity: Soil Stabilization

Action Description: Restore salt marshes to enhance their ability to act as natural buffers to reduce impacts of storm-induced surge and

waves while creating a maritime forest berm to help provide a buffer to Lakeshore Drive. The proposed wave attenuating devices, dune restoration, and beach replenishment would complete the proposed improvements by

reducing the potential for erosion.

Evaluating the Action

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

Goals: 5, 6, 7

Risk Reduction: Cliffwood Beach (Aberdeen Township) is at risk of erosion and the marsh surrounding Whale Creek currently

experiences flooding during high tides.

Technical: Technically feasible.

Political: The County and NWS Earle support this action.

Legal: Project will be completed on public lands owned by the County or Township; NJDEP permits and Soil Erosion and

Sediment Control approvals may be required.

Environmental: This action will improve the natural environment.

Social: Does not adversely affect any particular social group.

Administrative Capability: Township has the capability to oversee this action, and the County is willing to help implement the Raritan/Sandy

Hook Bay Coastal Resilience Planning Study projects.

Local Champion: This project is one of 11 projects listed in the 2019 Raritan/Sandy Hook Bay Coastal Resilience Planning Study (by

Monmouth County) and is supported by the County, the Borough, NWS Earle, and the Planning Study Technical

Other Community Objectives:

STAPLEE Evaluation: 9

Implementing the Action

Cost Estimate:

Priority: High
Scale of Ease of Implementation: Medium

Responsible Party: Township, County

Local Planning Mechanism: Raritan/Sandy Hook Bay Coastal Resilience Planning Study, NWS Earle Joint Land Use Study, Monmouth County Mast

Likely Funding Source(s): New Jersey Corporate Wetlands Restoration Partnership (NJCWRP), FEMA HMA, National Fish and Wildlife Foundatio

Timeline: 2 years

Action Status: New

Community Action Number: 01 11

Aberdeen, Township of

Describing the Action

Action Name: Conduct Wetland Restoration at Happy Meadows

Action Category: Mitigation - Risk Reduction
Action Type: Natural Systems Protection

HMA Eligible Activity: Floodplain and Stream Restoration

Action Description: Restore marshlands to enhance their ability to act as natural buffers to reduce impacts of storm-induced surge and

waves and build a maritime forest berm to provide a buffer to the surrounding residential area.

Evaluating the Action

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

Goals: 5, 6, 7

Risk Reduction: Cliffwood Beach (Aberdeen Township) and the Borough of Keyport are at risk of coastal flooding due to their low-

lying locations surrounding Matawan Creek, which flows into Lake Lefferts and Lake Matawan. Extensive Phragmites in the Happy Meadows tidal marsh dominates the creek between Ravine Drive and the mouth of Keyport Harbor.

Technical: Technically feasible.

Political: The County and NWS Earle support this action.

Legal: Project will be completed on public lands owned by the County or Township; NJDEP permits and Soil Erosion and

Sediment Control approvals may be required.

Environmental: This action will improve the natural environment.

Social: Does not adversely affect any particular social group.

Administrative Capability: Township has the capability to oversee this action, and the County is willing to help implement the Raritan/Sandy

Hook Bay Coastal Resilience Planning Study projects.

Local Champion: This project is one of 11 projects listed in the 2019 Raritan/Sandy Hook Bay Coastal Resilience Planning Study (by

Monmouth County) and is supported by the County, the Borough, NWS Earle, and the Planning Study Technical

Other Community Objectives:

STAPLEE Evaluation:

Implementing the Action

Scale of Ease of Implementation:

Cost Estimate:

Priority: High

Responsible Party: Township, County

Local Planning Mechanism: Raritan/Sandy Hook Bay Coastal Resilience Planning Study, NWS Earle Joint Land Use Study, Monmouth County Mast

Medium

Likely Funding Source(s): New Jersey Corporate Wetlands Restoration Partnership (NJCWRP), FEMA HMA, National Fish and Wildlife Foundatio

Timeline: 3 years

Action Status: New

Name: Rick Derechailo Title: OEM Coordinator/Chief of Police

Jurisdiction: Township of Aberdeen Organization: OEM

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	2015-Recommendation included for HMP
Capital Improvements Plan	Yes	
Economic Development Plan	Yes	
Local Emergency Operations Plan	Yes	OEM/Fire Department/Police Department/CERT
Continuity of Operations Plan	Yes	
Post-Disaster Recovery Plan	Yes	OEM and Township
Transportation Plan	Yes	
Stormwater Management Plan	Yes	DPW
Community Wildfire Protection Plan	Yes	



Other special plans (e.g., brownfields redevelopment, disaster recovery, coastal zone management, climate change adaptation)	Yes	 Strategic Recovery Planning Report Raritan/Sandy Hook Bay Coastal Resilience Planning Study
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	CME Associates, T M Associates
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)	Yes	
Flood Insurance Rate Maps	Yes	
Acquisition of Land for Open Space and Public Recreation Uses	Yes	
Post-Disaster Recovery Ordinance	Yes	
Real Estate Disclose Ordinance	No	No ordinance but realtors sent a letter on flood insurance and information



Other (ie. Special Purposes Ordinance)	Yes	Special Purposes Ordinance				
How can the above capabilities be expanded and improved to reduce risk?						
We can always expand/amend ordinances based on current happenings (storms, flooding)						

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.

the next higher level government	t that can p	provide technical assistance, indicate so in your comments.
Administration	Yes/No	Describe capability Is coordination effective?
Planning Commission	No	Planning Board, Engineer, Planner
Mitigation Planning Committee	Yes	OEM/Police
Maintenance Programs to Reduce Risk (e.g., tree trimming, clearing drainage systems)	Yes	Clearing drainage systems, DPW
Mutual Aid Agreements	Yes	MOU between the American Red Cross and Aberdeen, Monmouth County, Fire Districts, First Aids, Other Towns
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	

Professional Engineer	Yes	CME Associates				
Surveyor	Yes	CME Associates				
GIS Coordinator	Yes	CME Associates				
Scientists familiar with the hazards of the community	No					
Other	Yes	CERT Team				
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	Code Red, Nixle, Audible Exterior Alarms, Township Website				
Hazard Data and Information	Yes	Snow removal only				
Grant Writing	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.

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

Education and Outreach

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

Program/Organization	Yes/No	Describe program/organization and how it relates to disaster resilience and mitigation. Could the program/organization help implement future mitigation activities?
Local Citizen Groups or Non- Profit Organizations Focused on Environmental Protection, Emergency Preparedness, Access and Functional Needs Populations, etc.	Yes	NJ Register Ready, Neighborhood Watch, Green Team, Environmental Advisory Board
Ongoing Public Education or Information Programs (e.g., responsible water use, fire safety, household preparedness, environmental education)	Yes	Annual public education and hurricane awareness, Code Red, Storm Advisories, Heat Advisories
Natural Disaster or Safety Related School Programs	Yes	Same as above
StormReady Certification	Yes	Richard Derichailo, Temporary Debris Management Area Certification through Monmouth County and New Jersey
Firewise Communities Certification	Yes	Monmouth County Memo of Understanding (MOU)
Public-Private Partnership Initiatives Addressing Disaster Related Issues	Yes	Mutual Aid Agreement with Borough of Matawan, CERT, Shore Bayshore EMS
Other		

How can these capabilities be expanded and improved to reduce risk?

Working together to expand knowledge and capabilties



Parcel Classification Industrial Commercial Apartment Residential (four families or less)

Vacant

Civic/Public (Tax Exempt) Unclassified Open Space

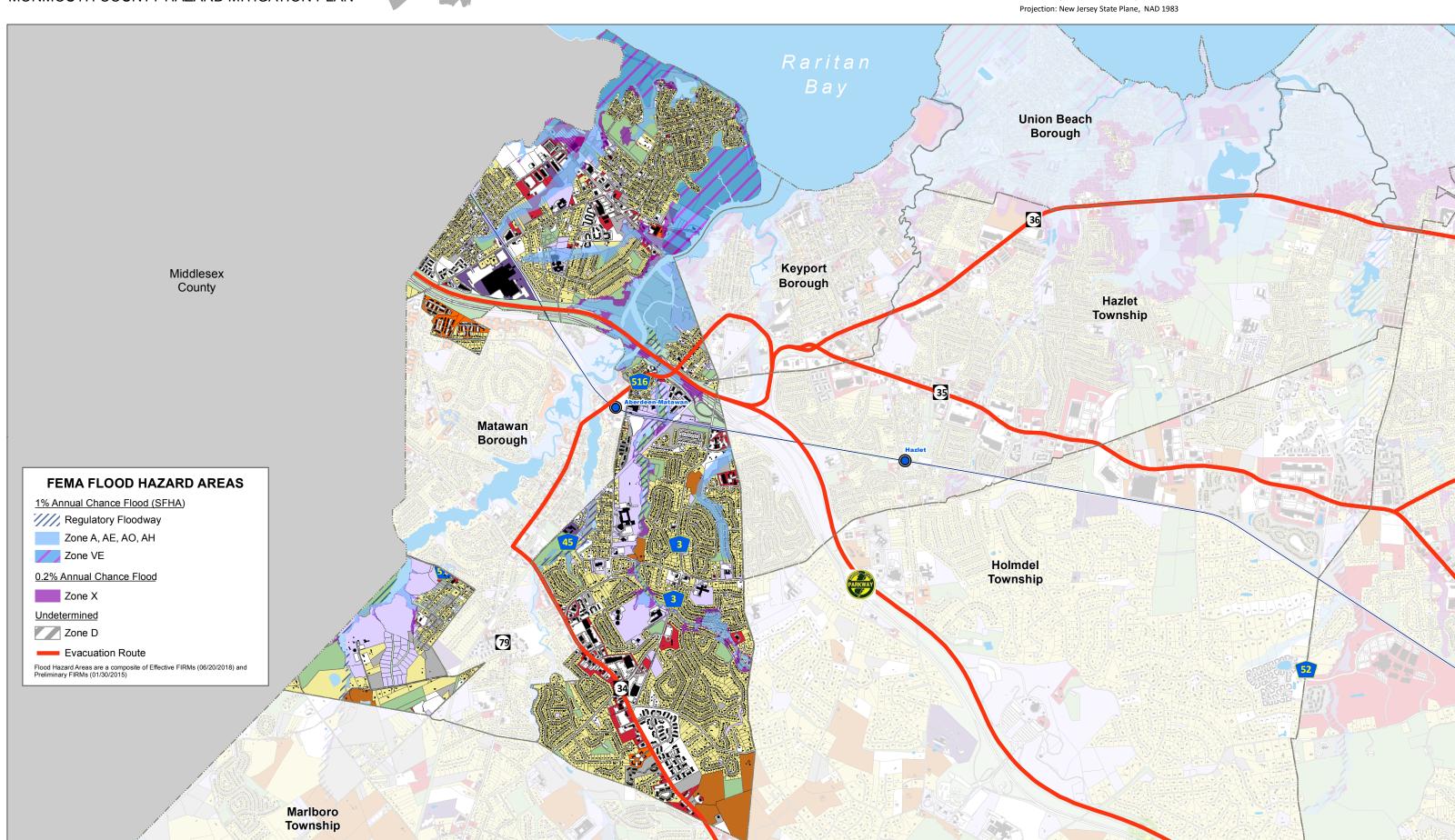
1,400 2,800 Source: 2014 Esri; Monmouth County;

NJOIT-OGIS; NJGIN MODIV Parcel, FEMA









Source: 2014 Esri; Monmouth County;

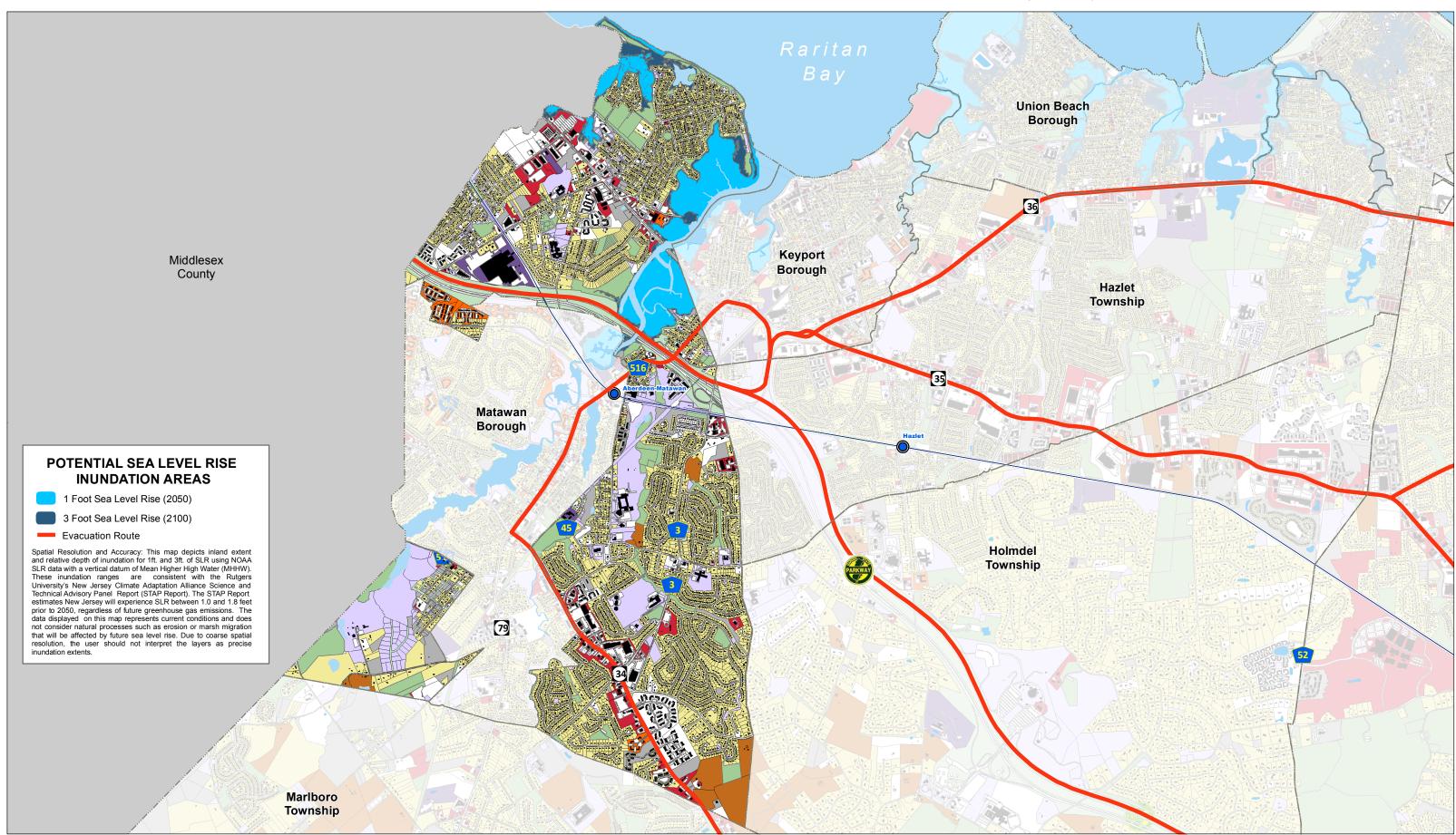
1,400 2,800

NJOIT-OGIS; NJGIN MODIV Parcel, FEMA Projection: New Jersey State Plane, NAD 1983

















MEETING NOTES

Topic: Aberdeen- Monmouth County HMP Meeting

Date: July 10, 2019

Time: 10:00 AM- 11:00 AM

Location: Follow up Phone Conference; Call: 571-209-6390; Access Code: 991 065 217

Attendees: Rick Derechailo, OEM Coordinator/ Police Chief

Joe Barris, Assistant Director of Monmouth County Planning

Maxine Rescori, Deputy Clerk

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

Town must address and mitigate RL properties.

2015 Mitigation Actions:

- Mitigation Outreach Program→ Completed
- Drainage Improvement/Elevation on flood-prone roadways→ Completed
- Elevate 16 Residential Structures → Ongoing.
 - o Maxine will provide information about all elevations that took place from 2015 till now.
- Raise Structures Above Current BFE or Waterproof→ Completed
- Mitigation Strategies for Dunes and Sidewalks→ Completed
- Improve Communications and Create a Community Shelter for Extreme Temperatures >
 Completed



Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update







2020 Mitigation Actions (NEW):

- The intersection of Greenwood Ave., Lakeshore Dr., and Ocean Blvd. experiences nuisance flooding during full moon or heavy rain events. Lakeshore Drive has been elevated but still experiences flooding when water comes up through the storm drains An engineering study to prevent the flooding of roadways is needed. Engineering Study for Nuisance Flooded Roads.
- Since the beach is eroding, there is less of a natural barrier of protection against coastal storms.
 An engineering study is needed for the constant beach erosion along the beach to the east of Cliffwood Beach Waterfront Park.
- The Township is currently installing surveillance cameras along a portion of the sea wall to monitor natural and human-based hazards. There is a need for more cameras along the second half of the sea wall.

Capabilities:

- MOU between the American Red Cross and Aberdeen
- Regular maintenance clearing drainage systems



Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update







Meeting:	Aberdeen Twp. HMP	Date:	07/10/19

Initial	Last Name	First Name	Title	Organization	Email Address
	Derechailo	Rick	Emergency Management Coordinator/Chief of Police	Aberdeen Township	rick.derechailo aberdeennj.org
	Barris	Joe	Assistant Director of Planning	Monmouth County	joe.barris co.monmouth.nj.us
	Rescorl	Maxine	Deputy Clerk	Aberdeen Township	maxine.rescorl aberdeennj.org
	Ashman	Brittany	Planner	МВ	