Appendix Vol I.24 Keyport 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

Keyport Borough

CRS Class

NFIP Statistics

136 Polices In-force

164 Total Losses

\$6,440,217 Total Payments

Number of RL Properties

Number Mitigated RL Properties

45 RL - Total Losses

\$2,899,799 RL - Total Paid



Number of SRL Properties

Number Mitigated SRL Properties

SRL - Total Losses

SRL - Total Paid

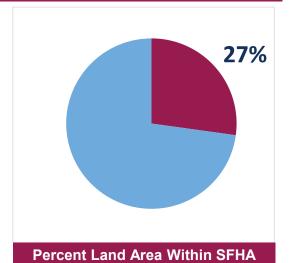
Critical Facilities



19 Critical Facilities

Critical Infrastructure

Historic & Cultural Resources



Total Mitigation Actions



Education and Awareness Programs

16



Structure and Infrastructure Projects



Local Plans and Regulations



Natural Systems Protection



SV Population At Risk (2017)

Population at Risk (2017)

Kev	port.	Borough	of
7,6	Poit	Dolougii	O.

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
24_01	Acquire, elevate, or relocate buildings and infrastructure in flood prone areas, with a focus on Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties	Mitigate 95 commercial and residential properties that are in FEMA's flood zone, specifically RL/SRL properties.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Medium	Business Administrator	FEMA HMA	\$2,850,000.00	5 + years	Ongoing
24_02	Acquire Two Flood Prone Properties	Acquire two flood prone properties and prohibit future building in flood prone areas	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Medium	Business Administrator	FEMA НМА	\$3,566,800.00	1 year	Ongoing
24_03	Elevate and Replace Bulkheads	Increase elevation and replacement of existing bulkheads.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood	High	Medium	Business Administrator	FEMA HMA	\$951,800.00	1 year	Ongoing
24_04	Elevate and Floodproof Maple Place Pump Station	Elevate and harden Maple Place Pump Station through elevating electrical panels, modifications for water tightness, generators to mitigate power loss and surging	Mitigation - Risk Reduction	Natural Systems Protection	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Medium	Business Administrator	FEMA HMA	\$718,900.00	1 year	Ongoing
24_05	Purchase and Install Generators at Pump Stations	Install generators to ensure proper performance of the sewer pumps in the event of power outage	Maintenance/Respon se/Recovery	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge			Business Administrator		\$44,301.00		Completed
24_06	Build New Culvert at Green Grove Ave.	Road Culvert and Drainage Improvements to increase drainage and curbing.	Mitigation - Continuity of Fuctional Use	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm	High	Medium	Business Administrator	FEMA HMA	\$1,100,000.00	1 year	Ongoing
24_07		Provide additional storm sewer piping, a reduction of backwater, and increase the capacity of the stormwater system.	Mitigation - Continuity of Fuctional Use	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Medium	Business Administrator	FEMA HMA	\$1,102,556.00	1 year	Ongoing
24_08	Elevate Firemen's Park Bulkhead	Although the bulkhead has been replaced since Sandy, the bulkhead still needs to be elevated six feet to prevent future flooding of public property and roadways	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Medium	Business Administrator	FEMA НМА	\$3,000,000.00	1 year	Ongoing
24_09	Install Tide Valves - Phase II	Install Tide Valves to alleviate blockages and prohibit foreign objects in the outflow pipes	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Medium	Business Administrator	FEMA НМА	\$150,000.00	1 year	Ongoing

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Kev	port.	Borough	of
7,6	Poit	Dolougii	O.

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
24_10	Extend Beach Park Pipe Past Division Street	Extend the Beach Park pipe discharging Division Street to prevent flooding due to obstruction of the pipe.	Mitigation - Continuity of Fuctional Use	Structure and Infrastructure Project	Flood, Coastal Erosion, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Medium	Business Administrator	FEMA HMA	\$700,000.00	1 year	Ongoing
24_11	Purchase and Install Permanent Generators for Emergency Shelters	Permanent generators for emergency shelters including Center School, Keyport High School and the First Aid Center	Maintenance/Respon se/Recovery	Structure and Infrastructure Project	All Hazards	Medium	Low	Business Administrator	FEMA НМА	\$75,000.00	1 year	New
24_12	Acquire 44 Beer Street and Convert to Open Space	Acquire 44 Beer Street, a frequently flooded property, and convert to a park	Mitigation - Risk Reduction	Natural Systems Protection	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Medium	Business Administrator	FEMA HMA	\$1,000,000.00	1 year	New
24_13	Dredge Luppatatong Creek	Assistance with dredging the creek so that the creek can hold more stormwater	Maintenance/Respon se/Recovery	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Low	Business Administrator	Municipal Budget	\$4,500,000.00	1 year	New
24_14	Restore Wetlands at Happy Meadows	Infrastructure (piping and bridges) have been built in an area designated as wetlands, which has disrupted the natural flow of water. The Borough would like to restore the wetlands so it can serve as a drainage basin.	Mitigation - Continuity of Fuctional Use	Natural Systems Protection	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Medium	Business Administrator, County	New Jersey Corporate Wetlands Restoration Partnership (NJCWRP), FEMA HMA, National Fish and Wildlife		1 year	New
24_15	Develop Storm Debris Dumpster Storage Plan	Develop a regional approach to storm debris dumpster storage.	Administrative	Local Plans and Regulations	All Hazards	High	Low	Business Administrator	Municipal budget		1 year	New
24_16	Create Living Shorelines along the Raritan Bay and Install Wave Attenuation Devices in the Bay	Implement dune grass plantings, artificial reefs, oyster castles, and other living technologies as a means of mitigating storm-related tidal, wind and wave action damage.	Mitigation - Risk Reduction	Natural Systems Protection	Flood, Wave Action, Coastal Erosion, Hurricane and Tropical Storm, Storm Surge	High	High	Business Administrator	FEMA HMA, The Nature Conservancy (TNC)	\$500,000.00	1 year	New
24_17	Implement the Beers Street Neighborhood Plan Recommendations	Implement the recommendations of the Beers Street Neighborhood Plan including raising Beers Street.	Administrative	Structure and Infrastructure Project	All Hazards	High	Low	Business Administrator	Municipal budget	\$5,000,000.00	5 + years	New
24_18	Implement the Walnut-Oak Street Neighborhood Plan Recommendations	Implement the recommendations of the Walnut and Oak Street Neighborhood Plan including raising Beers Street	Administrative	Structure and Infrastructure Project	All Hazards	High	Low	Business Administrator	Municipal budget	\$3,000,000.00	5 + years	New

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Keypor	t, Borough of					ſ	Monmou	th County	y HMP Miti	gation Act	tion Su	mmary
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
24_19	Implement the First Street Neighborhood Plan Recommendations	Implement the recommendations of the First Street Neighborhood Plan including raising Beers Street	Administrative	Structure and Infrastructure Project	All Hazards	High	Low	Business Administrator	Municipal budget	\$10,000,000.00	5 + years	New

All Hazards

Flood, Nor'easter,

Hurricane and Tropical

Storm, Storm Surge

High

High

Low

Medium

Business

Administrator

Business

Administrator

Structure and

Infrastructure

Project

Structure and

Infrastructure

Project

Administrative

Mitigation - Risk

Reduction

24_20

24_21

Implement the Division Street

Acquire Olsen's Marina and

Convert to Open Space

Neighborhood Plan

Recommendations

Implement the recommendations of the Division Street

Neighborhood Plan including raising Beers Street

Acquire Olsen's Marina, a waterfront property, and

convert to a park.

Municipal budget

FEMA HMA

\$3,000,000.00

\$1,000,000.00

5 + years

1 year

New

New

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Community Action Number: 24 01

Keyport, 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 95 commercial and residential properties that are in FEMA's flood zone, specifically RL/SRL properties.

Evaluating the Action

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

Goals: 2

Risk Reduction: About half of the Borough of Keyport is susceptible to storm surge, mainly via tidal surges up local streams. 95

homes encountered flood damage from storm tides and surges during Superstorm Sandy, and elevation would mitigate against repeated loss of homes due to flooding. Sea Level Rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent

and severe weather events.

Technical: Technically feasible.

Political: No adverse political ramifications are expected.

Legal: The Borough has the authority to implement this action, on a voluntary basis.

Environmental: No adverse environmental impact anticipated.

Social: The improvements will affect the current property owners in a beneficial way, but will not disrupt the community on

a whole.

Administrative Capability: The community has the capacity to implement and maintain the project, outside contractor assistance will be

needed for the action.

Local Champion: Post Sandy Strategic Planning Committee.

Other Community Objectives: Furthers Keyport's environmental quality and safety objectives.

STAPLEE Evaluation: 11

Implementing the Action

Cost Estimate: \$2,850,000.00

Priority: High

Scale of Ease of Implementation: Medium

Responsible Party: Business Administrator

Local Planning Mechanism: Zoning Officer/Planning Board

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

Action Status: Ongoing

Notes: Ongoing action from 2015; still a priority for the Borough and seeking funding opportunities for home and business

elevations.

Pending obligation as of 2020 for HMGP for \$2,137,500 for elevation of 95 homes post-Sandy.

Community Action Number: 24_02 Keyport, Borough of

Describing the Action

Action Name: Acquire Two Flood Prone Properties

Action Category: Mitigation - Risk Reduction

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Property Acquisition and Structure Demolition

Action Description: Acquire two flood prone properties and prohibit future building in flood prone areas

Evaluating the Action

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

Goals: 1, 2, 6

Risk Reduction: About half of the Borough of Keyport is susceptible to storm surge, mainly via tidal surges up local streams. Sea Level

Rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.

Climate change will contribute to more frequent and severe weather events.

Technical: This mitigation action is technically feasible.

Political: The project is viewed favorably in the Borough.

Legal: The Borough has the authority to implement this action.

Environmental: This project will comply with environmental regulations, no negative impacts are expected.

Social: The improvements will affect the current property owners in a beneficial way, but will not disrupt the community on

whole.

Administrative Capability: The Borough has the administrative capacity to implement and maintain this project.

Local Champion: Post Sandy Strategic Planning Committee

Other Community Objectives: Furthers Keyport's environmental quality and safety objectives.

STAPLEE Evaluation: 12

Implementing the Action

Cost Estimate: \$3,566,800.00

Priority: High

Scale of Ease of Implementation: Medium

Responsible Party: Business Administrator

Local Planning Mechanism: Zoning officer/ planning board

Likely Funding Source(s): FEMA HMA

Timeline: 1 year

Action Status: Ongoing

Notes: Pending obligation as of 2020 for \$2,675,100 to acquire 7 homes; ongoing action.

Community Action Number: 24_03 Keyport, Borough of

Describing the Action

Action Name: Elevate and Replace Bulkheads

Action Category: Mitigation - Risk Reduction

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Infrastructure Retrofit

Action Description: Increase elevation and replacement of existing bulkheads.

Evaluating the Action

Hazard(s) Addressed: Flood

Goals: 1, 2, 6

Risk Reduction: The existing bulkhead system is comprised of both public and private bulkheads, and there are certain areas with no

bulkheads. While the bulkhead system, in combination with some roads which have been raised, have worked to protect certain areas, locations where there are breaks in the line of protection are more vulnerable than other

areas. Affected properties are both residential and commercial.

Technical: This action is technically feasible.

Political: The project is viewed favorably in the Borough.

Legal: The borough has the authority to implement this action.

Environmental: Elevation of the height and replacement of the bulkhead will comply with environmental regulations.

Social: The improvements will be beneficial to the population as a whole, and it will not disrupt any residents,

neighborhoods, or districts.

Administrative Capability: The community has the capacity to implement and maintain the project, outside contractor assistance will be

needed for the action.

Local Champion: Post Sandy Strategic Planning Committee

Other Community Objectives: Furthers Keyport's environmental quality and safety objectives.

STAPLEE Evaluation: 11

Implementing the Action

Cost Estimate: \$951,800.00

Priority: High

Scale of Ease of Implementation: Medium

Responsible Party: Business Administrator

Local Planning Mechanism: Zoning Officer/Planning Board approval

Likely Funding Source(s): FEMA HMA
Timeline: 1 year

Action Status: Ongoing

Notes: Partial work has been completed since 2015.

Pending obligation as of 2020 for bulkhead improvements (\$713,850).

Community Action Number: 24 04

Keyport, Borough of

Describing the Action

Action Name: Elevate and Floodproof Maple Place Pump Station

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

HMA Eligible Activity: Structure Elevation

Action Description: Elevate and harden Maple Place Pump Station through elevating electrical panels, modifications for water tightness,

generators to mitigate power loss and surging

Evaluating the Action

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

Goals: 1, 6

Risk Reduction: Flooding and damage to the sewer system pump stations (i.e., Maple Place) that can result in overflow of untreated

sewage into natural waterways. Sea level rise and climate change will contribute to mare frequent and severe flooding and surge events aver a larger area. Climate change will contribute to more frequent and severe weather

events.

Technical: This mitigation action is technically feasible.

Political: The project is viewed favorably in the Borough.

Legal: The borough has the authority to implement this action.

Environmental: This project will comply with environmental regulations, no negative impacts ore expected.

Social: The improvements will be beneficial to the population as a whole, and it will not disrupt any residents,

neighborhoods, or districts.

Administrative Capability: The community has the capacity to implement and maintain the project, outside contractor assistance will be

needed for the action.

Local Champion: Post Sandy Strategic Planning Committee

Other Community Objectives: Furthers Keyport's environmental quality and safety objectives.

STAPLEE Evaluation: 11

Implementing the Action

Cost Estimate: \$718,900.00

Priority: High

Scale of Ease of Implementation: Medium

Responsible Party: Business Administrator

Local Planning Mechanism: Sewer System and Roads ordinances

Likely Funding Source(s): FEMA HMA

Timeline: 1 year

Action Status: Ongoing

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

The Borough was awarded HMGP funding for Portable Generators (35 kW) Pump Station: \$97,500

The Borough was awarded FEMA Funding 406 Public Assistance for Maple Street Pump Station Improvements.

Community Action Number: 24_05 Keyport, Borough of

Describing the Action

Action Name: Purchase and Install Generators at Pump Stations

Action Category: Maintenance/Response/Recovery

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Generators

Action Description: Install generators to ensure proper performance of the sewer pumps in the event of power outage

Evaluating the Action

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

Goals: 1, 2, 7

Risk Reduction: Flooding and damage to the sewer system pump stations (i.e. Maple Place) that can result in overflow of untreated

sewage into natural waterways. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. Climate change will contribute to more frequent and severe weather

events.

Technical: This mitigation action is technically feasible.

Political: The project is viewed favorably in the Borough.

Legal: The Borough has the authority to implement this action.

Environmental: This project will comply with environmental regulations, no negative impacts are expected.

Social: The improvements will be beneficial to the population as a whole, and it will not disrupt any residents,

neighborhoods, or districts.

Administrative Capability: The community has the capacity to implement and maintain the project, outside contractor assistance will be

needed for the action.

Local Champion: Post Sandy Strategic Planning Committee

Other Community Objectives: Furthers Keyport's environmental quality and safety objectives.

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$44,301.00

Priority:

Scale of Ease of Implementation:

Responsible Party: Business Administrator

Local Planning Mechanism: Sewer System and Roads ordinances

Likely Funding Source(s):

Timeline:

Action Status: Completed

Notes: The Maple Place Pump Station and Cedar Street Pump Station both received a HMGP grant of \$50,000 for a

generator. The Perry Street Water Treatment Plant - Emergency Back-up Generator received a \$538,000 HMGP grant.

Community Action Number: 24_06 Keyport, Borough of

Describing the Action

Action Name: Build New Culvert at Green Grove Ave.

Action Category: Mitigation - Continuity of Fuctional Use

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Infrastructure Retrofit

Action Description: Road Culvert and Drainage Improvements to increase drainage and curbing.

Evaluating the Action

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

Goals: 2, 7

Risk Reduction: Insufficient roadway drainage (curbing, culverts, etc) leads to street flooding and flooding of multi-family, residential,

and commercial properties. Lack of drainage and subsequent flooding hinder access to the Evacuation Route, and the emergency vehicles access to the roadway. Flooding also hinders access to the pedestrian access bridge.

Technical: This mitigation action is technically feasible.

Political: The project is viewed favorably in the Borough.

Legal: The Borough has the authority to implement this action.

Environmental: This project will comply with environmental regulations, no negative impacts are expected.

Social: The improvements will be beneficial to the population as a whole, and it will not disrupt any residents,

neighborhoods, or districts.

Administrative Capability: The community has the capacity to implement and maintain the project, outside contractor assistance will be

needed for the action.

Local Champion: Post Sandy Strategic Planning Committee

Other Community Objectives: Furthers Keyport's environmental quality and safety objectives.

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$1,100,000.00

Priority: High

Scale of Ease of Implementation: Medium

Responsible Party: Business Administrator

Local Planning Mechanism: Sewer System and Roads ordinances

Likely Funding Source(s): FEMA HMA

Timeline: 1 year
Action Status: Ongoing

Notes: The Borough was awarded HMGP funding of \$231,320 for road culvert and drainage improvements post-Sandy.

Community Action Number: 24_07 Keyport, Borough of

Describing the Action

Action Name: Increase Size of Stormwater Pipes and Overall Stormwater System in the Borough

Action Category: Mitigation - Continuity of Fuctional Use
Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Infrastructure Retrofit

Action Description: Provide additional storm sewer piping, a reduction of backwater, and increase the capacity of the stormwater

system.

Evaluating the Action

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

Goals: 2, 7

Risk Reduction: Insufficient capacity of the storm water system results in frequent flooding in residential and commercial areas.

Technical: This mitigation action is technically feasible

Political: The project is viewed favorably in the Borough

Legal: The borough has the authority to implement this action.

Environmental: This project will comply with environmental regulations, no negative impacts are expected.

Social: The improvements will be beneficial to the population as a whole, and it will not disrupt any residents,

neighborhoods, or districts.

Administrative Capability: The community has the capacity to implement and maintain the project, outside contractor assistance will be

needed for the action.

Local Champion: Post Sandy Strategic Planning Committee

Other Community Objectives: Furthers Keyport's environmental quality and safety objectives.

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$1,102,556.00

Priority: High

Scale of Ease of Implementation: Medium

Responsible Party: Business Administrator

Local Planning Mechanism: Sewer System and Roads ordinances

Likely Funding Source(s): FEMA HMA
Timeline: 1 year

Action Status: Ongoing

Notes: Partial work has been completed since last plan update. Both Beach Park and Beers St Outfalls were awarded HMGP

funding for Storm Sewer Outfall Rehabilitation Projects.

Community Action Number: 24 08

Keyport, Borough of

Describing the Action

Action Name: Elevate Firemen's Park Bulkhead

Action Category: Mitigation - Risk Reduction

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Structure Elevation

Action Description: Although the bulkhead has been replaced since Sandy, the bulkhead still needs to be elevated six feet to prevent

future flooding of public property and roadways

Evaluating the Action

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

Goals: 2, 7

Risk Reduction: The current Firemen's Park bulkhead height is not sufficient to mitigate against high tide and storm related flooding.

This has been a repetitive loss area affecting public property and the safe enjoyment of recreational areas as well as

safe passage through roadways and access to commercial properties.

Technical: This mitigation action is technically feasible

Political: The project is viewed favorably in the Borough

Legal: The borough has the authority to implement this action.

Environmental: Elevation of the height of the bulkhead will comply with environmental regulations.

Social: The improvements will be beneficial to the population as a whole, and it will not disrupt any residents,

neighborhoods, or districts.

Administrative Capability: The community has the capacity to implement and maintain the project, outside contractor assistance will be

needed for the action.

Local Champion: Post Sandy Strategic Planning Committee

Other Community Objectives: Furthers Keyport's environmental quality and safety objectives.

STAPLEE Evaluation: 11

Implementing the Action

Cost Estimate: \$3,000,000.00

Priority: High

Scale of Ease of Implementation: Medium

Responsible Party: Business Administrator

Local Planning Mechanism: Zoning officer/ planning board approval

Likely Funding Source(s): FEMA HMA

Timeline: 1 year

Action Status: Ongoing

Notes: This action is carried from the 2009 plan; still a very high priority for the Borough and seeking funding opportunities

for the elevation of the bulkhead.

The Borough was awarded \$100,000 of FEMA Funding 406 Public Assistance for Firemen's Park Boardwalk and

Benjamin Terry Park Bulkhead

Pending obligation as of 2020 for the Fireman's Park Bulkhead.

Community Action Number: 24 09 Keyport, Borough of

Describing the Action

Install Tide Valves - Phase II Action Name:

Mitigation - Risk Reduction **Action Category:**

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Localized Flood Risk Reduction Projects

Action Description: Install Tide Valves to alleviate blockages and prohibit foreign objects in the outflow pipes

Evaluating the Action

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

2 Goals:

Risk Reduction: Blockages and back/low of tidal and storm waters in drainage systems contributes to flooding of roadways, borough,

commercial and residential properties.

Technical: This action is technically feasible.

The project is viewed favorably in the Borough. Political:

The borough has the authority to implement this action. Legal:

Environmental: Addition of the valves will comply with environmental regulations.

Social: The improvements will be beneficial to the population as a whole, and it will not disrupt any residents,

neighborhoods, or districts.

Administrative Capability: The community has the capacity to implement and maintain the project, outside contractor assistance will be

needed for the action.

Local Champion: Post Sandy Strategic Planning Committee

Other Community Objectives: Furthers Keyport's environmental quality and safety objectives.

STAPLEE Evaluation: 12

Implementing the Action

\$150,000.00 Cost Estimate:

Priority: High

Scale of Ease of Implementation: Medium

Responsible Party: **Business Administrator**

Local Planning Mechanism: Sewer System and Roads ordinances

Ongoing

Likely Funding Source(s): **FEMA HMA** Timeline: 1 year

Action Status:

Notes: Contract awarded for Phase I, need more funds to complete phase II

Community Action Number: 24_10 Keyport, Borough of

Describing the Action

Action Name: Extend Beach Park Pipe Past Division Street

Action Category: Mitigation - Continuity of Fuctional Use

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Infrastructure Retrofit

Action Description: Extend the Beach Park pipe discharging Division Street to prevent flooding due to obstruction of the pipe.

Evaluating the Action

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

Goals: 2, 6

Risk Reduction: Silting continually blocks the discharge of storm water in several areas of town resulting in flooding, and inhibits the

Borough's ability to complete beach restoration projects and future maintenance projects on the beach without risk

of obstructing the pipe. (i.e., Beach Park pip discharging Division Street)

Technical: This mitigation action is technically feasible.

Political: The project is viewed favorably in the Borough.

Legal: The borough has the authority to implement this action.

Environmental: This project will comply with environmental regulations, no negative impacts are expected.

Social: The improvements will be beneficial to the population as a whole, and it will not disrupt any residents,

neighborhoods, or districts.

Administrative Capability: The community has the capacity to implement and maintain the project, outside contractor assistance will be

needed for the action.

Local Champion: Post Sandy Strategic Planning Committee

Other Community Objectives: Furthers Keyport's environmental quality and safety objectives.

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$700,000.00

Priority: High
Scale of Ease of Implementation: Medium

Responsible Party: Business Administrator

Local Planning Mechanism: Sewer System and Roads ordinances

Likely Funding Source(s): FEMA HMA

Timeline: 1 year
Action Status: Ongoing

Notes: Contract awarded through HMGP, construction to commence 9/2019

Community Action Number: 24 11

Keyport, Borough of

Describing the Action

Action Name: Purchase and Install Permanent Generators for Emergency Shelters

Action Category: Maintenance/Response/Recovery

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Generators

Action Description: Permanent generators for emergency shelters including Center School, Keyport High School and the First Aid Center

Evaluating the Action

Hazard(s) Addressed: All Hazards

Goals: 1, 7

Risk Reduction: Shelters used during Superstorm Sandy need permanent generators.

Technical: This mitigation action is technically feasible.

Political: The project is viewed favorably in the Borough.

Legal: The borough has the authority to implement this action.

Environmental: This project will comply with environmental regulations, no negative impacts are expected.

Social: The improvements will be beneficial to residents of Keyport and surrounding municipalities.

Administrative Capability: The community has the capacity to implement and maintain the project, outside contractor assistance will be

needed for the action.

Local Champion: Business Administrator

Other Community Objectives: The First Aid Center and Keyport Central operated as successful shelters during Superstorm Sandy, sleeping 200

people and feeding over 500 people for 12 days (mostly Keyport, Avon, Union Beach).

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$75,000.00
Priority: Medium

Scale of Ease of Implementation: Low

Responsible Party: Business Administrator
Local Planning Mechanism: Hazard Mitigation Plan

Likely Funding Source(s): FEMA HMA

Timeline: 1 year
Action Status: New

Community Action Number: 24 12

Describing the Action

Action Name: Acquire 44 Beer Street and Convert to Open Space

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

HMA Eligible Activity: Property Acquisition and Structure Demolition

Action Description: Acquire 44 Beer Street, a frequently flooded property, and convert to a park

Evaluating the Action

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

Goals: 2, 6

Risk Reduction: There is frequent flooding along Beer Street; the Borough would like to acquire the property and convert to open

space therefore prohibiting future development from occurring in this flood hazard area.

Technical: This mitigation action is technically feasible.

Political: The project is viewed favorably in the Borough.

Legal: The borough has the authority to implement this action.

Environmental: This project will comply with environmental regulations, no negative impacts are expected.

Social: The improvements will be beneficial to the population as a whole.

Administrative Capability: The community has the capacity to implement and maintain the project, outside contractor assistance will be

needed for the action.

Local Champion: Business Administrator

Other Community Objectives: Furthers Keyport's environmental quality and safety objectives.

STAPLEE Evaluation: 11

Implementing the Action

Cost Estimate: \$1,000,000.00

Priority: High
Scale of Ease of Implementation: Medium

Responsible Party: Business Administrator

Local Planning Mechanism: Hazard Mitigation Plan

Likely Funding Source(s): FEMA HMA

Timeline: 1 year
Action Status: New

Notes:

Keyport, Borough of

Community Action Number: 24_13 Keyport, Borough of

Describing the Action

Action Name: Dredge Luppatatong Creek

Action Category: Maintenance/Response/Recovery

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Miscellaneous/Other/NA

Action Description: Assistance with dredging the creek so that the creek can hold more stormwater

Evaluating the Action

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

Goals: 6

Risk Reduction: There is storm water backups after rain showers.

Technical: This mitigation action is technically feasible.

Political: The project is viewed favorably in the Borough.

Legal: The borough has the authority to implement this action.

Environmental: This project will comply with environmental regulations, no negative impacts are expected.

Social: The improvements will be beneficial to the population as a whole.

Administrative Capability: The community has the capacity to implement and maintain the project, outside contractor assistance will be

needed for the action.

Local Champion: Business Administrator

Other Community Objectives: Furthers Keyport's environmental quality and safety objectives.

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$4,500,000.00

Priority: High Scale of Ease of Implementation: Low

Responsible Party: Business Administrator
Local Planning Mechanism: Hazard Mitigation Plan

New

Likely Funding Source(s): Municipal Budget

Timeline: 1 year

Notes:

Action Status:

Community Action Number: 24 14

Keyport, Borough of

Describing the Action

Action Name: Restore Wetlands at Happy Meadows

Action Category: Mitigation - Continuity of Fuctional Use

Action Type: Natural Systems Protection

HMA Eligible Activity: Floodplain and Stream Restoration

Action Description: Infrastructure (piping and bridges) have been built in an area designated as wetlands, which has disrupted the

natural flow of water. The Borough would like to restore the wetlands so it can serve as a drainage basin.

Evaluating the Action

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

Goals: 2, 6

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: This mitigation action is 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 project will comply with environmental regulations, no negative impacts are expected.

Social: The improvements will be beneficial to the population as a whole.

Administrative Capability: The Borough has the capacity to implement and maintain the project, outside contractor assistance will be needed

for the action.

Local Champion: Business Administrator

Other Community Objectives: Furthers Keyport's environmental quality and safety objectives.

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate:

Priority: High
Scale of Ease of Implementation: Medium

Responsible Party: Business Administrator, County

Local Planning Mechanism: Hazard Mitigation Plan, Raritan/Sandy Hook Bay Coastal Resilience Planning Study

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

Timeline: 1 year

Action Status: New

Community Action Number: 24 15

Keyport, Borough of

Describing the Action

Action Name: Develop Storm Debris Dumpster Storage Plan

Action Category: Administrative

Action Type: Local Plans and Regulations
HMA Eligible Activity: Miscellaneous/Other/NA

Action Description: Develop a regional approach to storm debris dumpster storage.

Evaluating the Action

Hazard(s) Addressed: All Hazards

Goals: 7

Risk Reduction: There is no available space within the Borough for debris dumpster storage for post-disaster recovery and cleanup.

Technical: This mitigation action is technically feasible.

Political: The project is viewed favorably in the Borough.

Legal: The borough has the authority to implement this action.

Environmental: This project will comply with environmental regulations, no negative impacts are expected.

Social: The improvements will be beneficial to the population as a whole.

Administrative Capability: The community has the capacity to implement and maintain the project, outside contractor assistance will be

needed for the action.

Local Champion: Business Administrator

Other Community Objectives: Furthers Keyport's environmental quality and safety objectives.

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate:

Priority: High Scale of Ease of Implementation: Low

Responsible Party: Business Administrator
Local Planning Mechanism: Hazard Mitigation Plan

Likely Funding Source(s): Municipal budget

Timeline: 1 year
Action Status: New

Community Action Number: 24 16

Keyport, Borough of

Describing the Action

Action Name: Create Living Shorelines along the Raritan Bay and Install Wave Attenuation Devices in the Bay

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

HMA Eligible Activity: Green Infrastructure

Action Description: Implement dune grass plantings, artificial reefs, oyster castles, and other living technologies as a means of mitigating

storm-related tidal, wind and wave action damage.

Evaluating the Action

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

Goals: 7

Risk Reduction: Reduces storm related coastal flooding and erosion.

Technical: This mitigation action is technically feasible.

Political: The project is viewed favorably in the Borough.

Legal: The borough has the authority to implement this action.

Environmental: This project will comply with environmental regulations, no negative impacts are expected.

Social: The improvements will be beneficial to the population as a whole.

Administrative Capability: The community has the capacity to implement and maintain the project, outside contractor assistance will be

needed for the action.

Local Champion: Business Administrator

Other Community Objectives: Furthers Keyport's environmental quality and safety objectives.

STAPLEE Evaluation: 11

Implementing the Action

Cost Estimate: \$500,000.00

Priority: High Scale of Ease of Implementation: High

Responsible Party: Business Administrator

Local Planning Mechanism: Hazard Mitigation Plan

Likely Funding Source(s): FEMA HMA, The Nature Conservancy (TNC)

Timeline: 1 year
Action Status: New

Community Action Number: 24_17 Keyport, Borough of

Describing the Action

Action Name: Implement the Beers Street Neighborhood Plan Recommendations

Action Category: Administrative

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Miscellaneous/Other/NA

Action Description: Implement the recommendations of the Beers Street Neighborhood Plan including raising Beers Street.

Evaluating the Action

Hazard(s) Addressed: All Hazards

Goals: 1,7

Risk Reduction: The Beers Street Neighborhood is susceptible to repetitive flooding.

Technical: This mitigation action is technically feasible.

Political: The project is viewed favorably in the Borough.

Legal: The borough has the authority to implement this action.

Environmental: This project will comply with environmental regulations, no negative impacts are expected.

Social: The improvements will be beneficial to residents of Keyport and surrounding municipalities.

Administrative Capability: The community has the capacity to implement and maintain the project, outside contractor assistance will be

needed for the action.

Local Champion: Business Administrator

Other Community Objectives: Implementing The Beers Street Neighborhood Plan will reduce exposure to storm related damage and clean up.

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$5,000,000.00

Priority: High Scale of Ease of Implementation: Low

Responsible Party: Business Administrator

Local Planning Mechanism: Hazard Mitigation Plan

Likely Funding Source(s): Municipal budget

Timeline: 5 + years

Action Status: New

Keyport, Borough of

Community Action Number: 24 18

Describing the Action

Action Name: Implement the Walnut-Oak Street Neighborhood Plan Recommendations

Action Category: Administrative

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Miscellaneous/Other/NA

Action Description: Implement the recommendations of the Walnut and Oak Street Neighborhood Plan including raising Beers Street

Evaluating the Action

Hazard(s) Addressed: All Hazards

Goals: 1, 7

Risk Reduction: The Walnut-Oak Street Neighborhood is susceptible to repetitive flooding.

Technical: This mitigation action is technically feasible.

Political: The project is viewed favorably in the Borough.

Legal: The borough has the authority to implement this action.

Environmental: This project will comply with environmental regulations, no negative impacts are expected.

Social: The improvements will be beneficial to residents of Keyport and surrounding municipalities.

Administrative Capability: The community has the capacity to implement and maintain the project, outside contractor assistance will be

needed for the action.

Local Champion: Business Administrator

Other Community Objectives: Implementing The Walnut - Oak Street Neighborhood Plan will reduce exposure to storm related damage and clean

up.

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$3,000,000.00

Priority: High

Scale of Ease of Implementation: Low

Responsible Party: Business Administrator
Local Planning Mechanism: Hazard Mitigation Plan
Likely Funding Source(s): Municipal budget

Timeline: 5 + years

Action Status: New

Community Action Number: 24 19

Keyport, Borough of

Describing the Action

Action Name: Implement the First Street Neighborhood Plan Recommendations

Action Category: Administrative

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Miscellaneous/Other/NA

Action Description: Implement the recommendations of the First Street Neighborhood Plan including raising Beers Street

Evaluating the Action

Hazard(s) Addressed: All Hazards

Goals: 1,7

Risk Reduction: The First Street Neighborhood is susceptible to repetitive flooding.

Technical: This mitigation action is technically feasible.

Political: The project is viewed favorably in the Borough.

Legal: The borough has the authority to implement this action.

Environmental: This project will comply with environmental regulations, no negative impacts are expected.

Social: The improvements will be beneficial to residents of Keyport and surrounding municipalities.

Administrative Capability: The community has the capacity to implement and maintain the project, outside contractor assistance will be

needed for the action.

Local Champion: Business Administrator

Other Community Objectives: Implementing The First Street Neighborhood Plan will reduce exposure to storm related damage and clean up.

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$10,000,000.00

Priority: High Scale of Ease of Implementation: Low

Responsible Party: Business Administrator
Local Planning Mechanism: Hazard Mitigation Plan

Likely Funding Source(s): Municipal budget

Timeline: 5 + years

Action Status: New

Community Action Number: 24_20 Keyport, Borough of

Describing the Action

Action Name: Implement the Division Street Neighborhood Plan Recommendations

Action Category: Administrative

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Miscellaneous/Other/NA

Action Description: Implement the recommendations of the Division Street Neighborhood Plan including raising Beers Street

Evaluating the Action

Hazard(s) Addressed: All Hazards

Goals: 1,7

Risk Reduction: The Division Street Neighborhood is susceptible to repetitive flooding.

Technical: This mitigation action is technically feasible.

Political: The project is viewed favorably in the Borough.

Legal: The borough has the authority to implement this action.

Environmental: This project will comply with environmental regulations, no negative impacts are expected.

Social: The improvements will be beneficial to residents of Keyport and surrounding municipalities.

Administrative Capability: The community has the capacity to implement and maintain the project, outside contractor assistance will be

needed for the action.

Local Champion: Business Administrator

Other Community Objectives: Implementing The Division Street Neighborhood Plan will reduce exposure to storm related damage and clean up.

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$3,000,000.00

Priority: High
Scale of Ease of Implementation: Low

Responsible Party: Business Administrator

Local Planning Mechanism: Hazard Mitigation Plan
Likely Funding Source(s): Municipal budget

Likely Funding Source(s): Municipal b
Timeline: 5 + years

Action Status: New

Community Action Number: 24 21

Keyport, Borough of

Describing the Action

Action Name: Acquire Olsen's Marina and Convert to Open Space

Action Category: Mitigation - Risk Reduction

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Property Acquisition and Structure Demolition

Action Description: Acquire Olsen's Marina, a waterfront property, and convert to a park.

Evaluating the Action

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

Goals: 2,6

Risk Reduction: Prevent private development in a known Coastal Flood Hazard Area, use property as a storm buffer and open public

space

Technical: This mitigation action is technically feasible.

Political: The project is viewed favorably in the Borough.

Legal: The borough has the authority to implement this action.

Environmental: This project will comply with environmental regulations, no negative impacts are expected.

Social: The improvements will be beneficial to the population as a whole.

Administrative Capability: The community has the capacity to implement and maintain the project, outside contractor assistance will be

needed for the action.

Local Champion: Business Administrator

Other Community Objectives: Furthers Keyport's environmental quality and safety objectives.

STAPLEE Evaluation: 11

Implementing the Action

Cost Estimate: \$1,000,000.00

Priority: High
Scale of Ease of Implementation: Medium

Responsible Party: Business Administrator

Local Planning Mechanism: Hazard Mitigation Plan

Likely Funding Source(s): FEMA HMA

Timeline: 1 year
Action Status: New

Name:	Stephen Gallo	Title: Borough Administrator
Jurisdict	ion: Keyport 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	 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	
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		



Other special plans (e.g., brownfields redevelopment, disaster recovery, coastal zone management, climate change adaptation)	Yes	 Neighborhood Plans for Improvements Getting to Resilience (2016) Coastal Vulnerability Assessment Strategic Recovery Planning Reports Raritan/Sandy Hook Bay Coastal Resilience Planning Study
Building Code, Permitting, and Inspections	Yes/No	Are codes adequately enforced?
Building Code	Yes	Version/Year:
Building Code Effectiveness Grading Schedule (BCEGS) Score		Score:
Fire Department ISO rating		Rating:
Site Plan Review Requirements	Yes	
Land Use Planning and Ordinances	Yes/No	Is the ordinance an effective measure for reducing hazard impacts? Is the ordinance adequately administered and enforced?
Zoning Ordinance	Yes	
Subdivision Ordinance	Yes	
Floodplain Ordinance	No	
Natural hazard ordinance (stormwater, steep slope, wildfire)	No	
Flood Insurance Rate Maps	Yes	Obtaining CRS certification
Acquisition of Land for Open Space and Public Recreation Uses		
Post-Disaster Recovery Ordinance	Yes	
Real Estate Disclose Ordinance	Yes	



Other (ie. Special Purposes Ordinance)	Yes	 Special Purposes Ordinance Storm damage prevention ordinances and will be adopted shortly Took part in the Monmouth County Debris Management Plan Referendum on school safety and training on CPR
How can the above capabilities	es be expan	ded 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	Yes	Discussing shared services: programs are underway
Staff	Yes/No FT/PT	Is the staff full time or part time? Is staffing adequate to enforce regulations? Is the staff trained on hazards and mitigation? Is coordination between agencies and staff effective?
Chief Building Official		
Floodplain Administrator	Yes	

Emergency Manager	Yes	
Community Planner	Yes	
Civil Engineer	Yes	
Surveyor	Yes	
GIS Coordinator	Yes	
Scientists familiar with the hazards of the community		
Other	Yes	Staff with education or expertise to assess the community's vulnerability to hazards
		vuller ability to flazards
Technical	Yes/No	Describe capability. Has capability been used to access/mitigate risk in the past?
Technical Warning Systems/Services (Reverse 911, outdoor warning signals)	Yes/No	Describe capability.
Warning Systems/Services (Reverse 911, outdoor warning	Yes/No	Describe capability.
Warning Systems/Services (Reverse 911, outdoor warning signals)	Yes/No Yes	Describe capability.
Warning Systems/Services (Reverse 911, outdoor warning signals) Hazard Data and Information		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	Describe capability. Has capability been used to access/mitigate risk in the past?



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	No	
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 Private Activity Bonds
How can these capabilities be expa	anded and i	mproved to reduce risk?

Education and Outreach

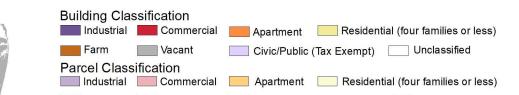
Identify education and outreach programs and methods already in place that could be used to implement mitigation activities and communicate hazard-related information.

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.		
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 expa	anded and in	mproved to reduce risk?
Spring 2013 Public Awareness Mee	tings were h	eld prior to adoption of new flood ABFE's.









0 500 1,000 Feet

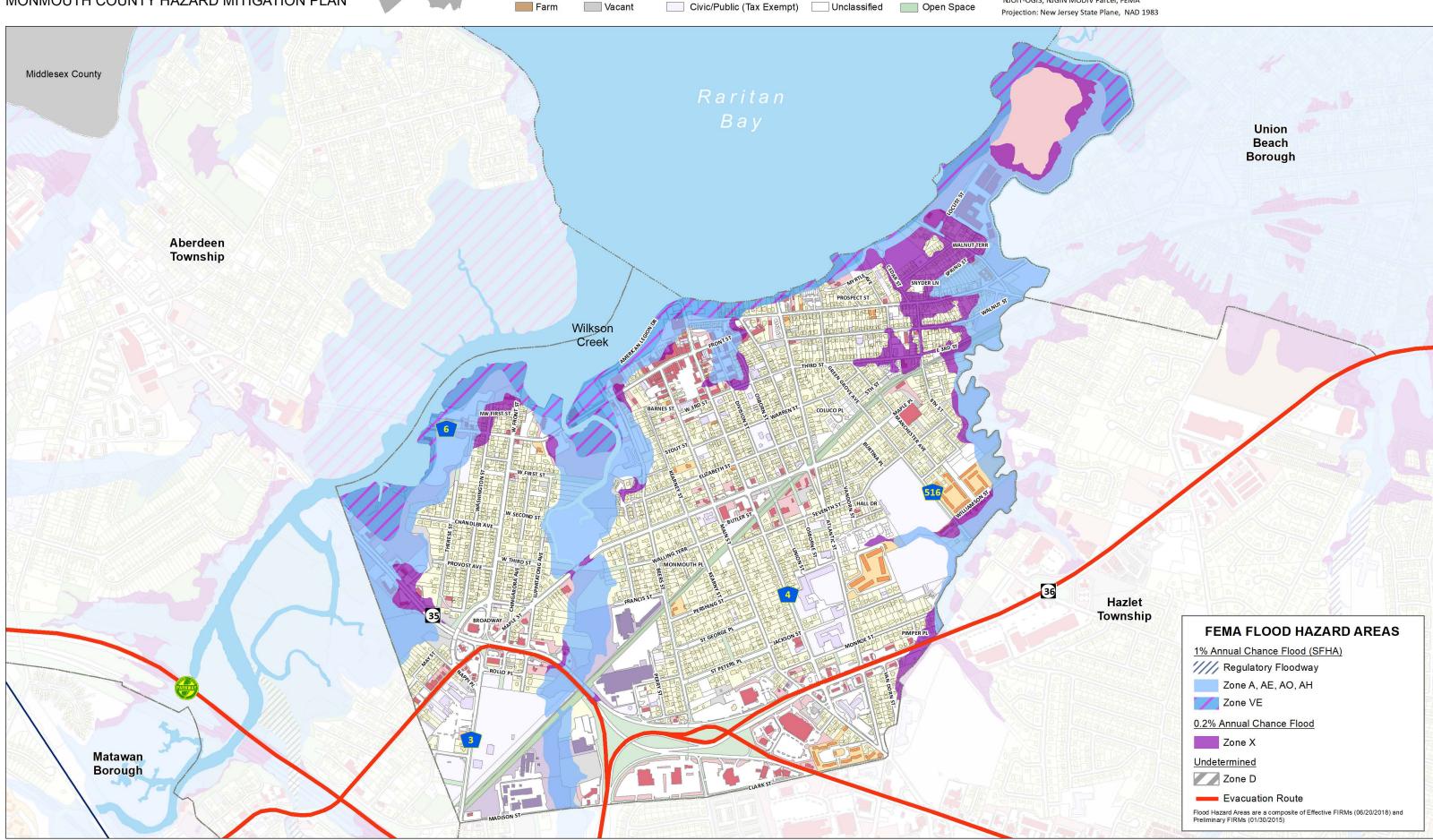
Source: © 2014 Esri; Monmouth County;

NJOIT-OGIS; NJGIN MODIV Parcel, FEMA











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)

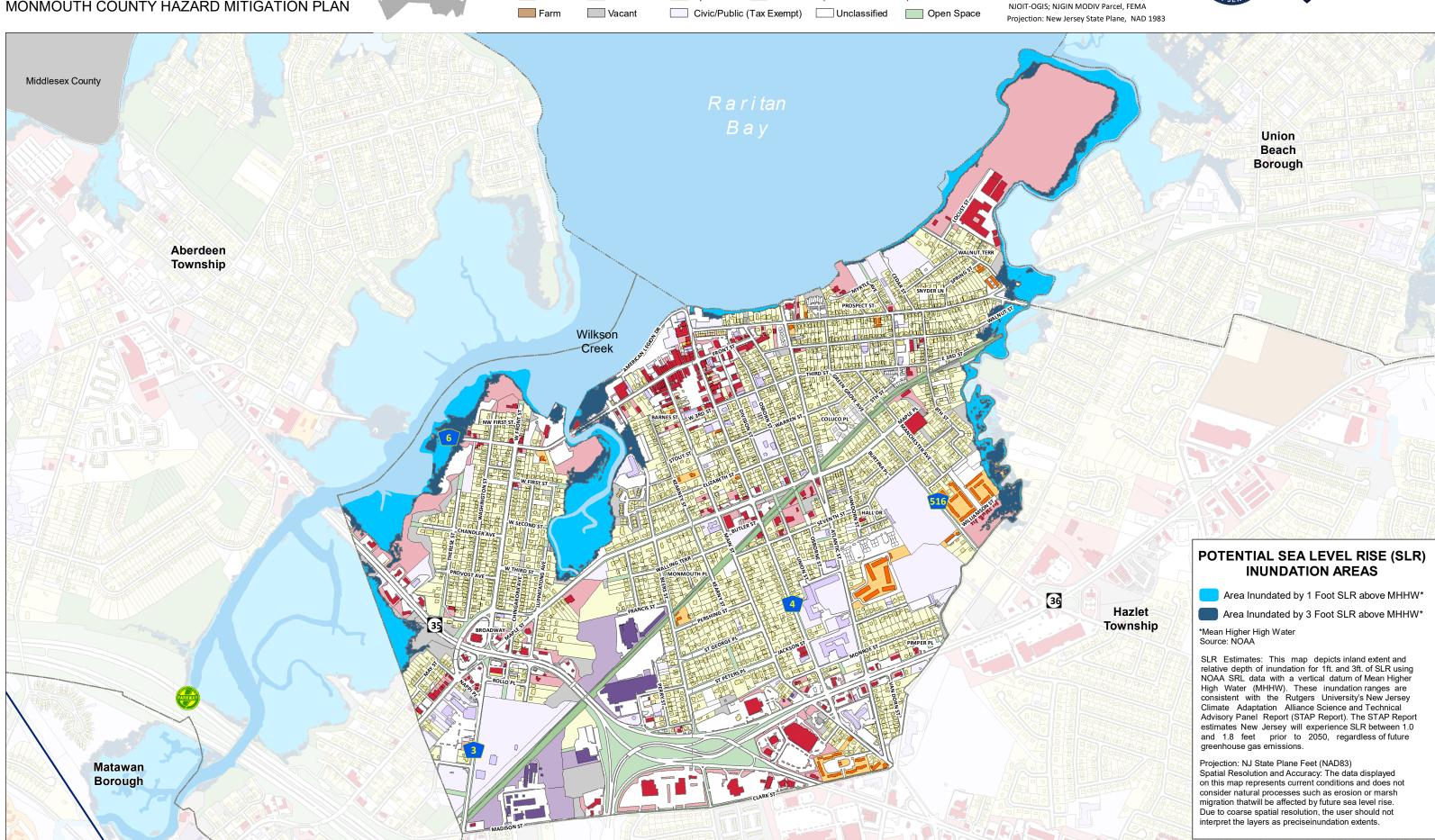
500 1,000 Feet

Source: 2014 Esri; Monmouth County;

















MEETING NOTES

Topic: Keyport- Monmouth County HMP Meeting

Date: April 22, 2019

Time: 5:00 PM- 7:00 PM

Location: Keyport Borough Hall, 70 West Front Street

Attendees: Joe Barris, Assistant Director

Michele Clark, Deputy Clerk

Michael Ferm, Lieutenant

Stephen Gallo, Administrator

Collette Kennedy, Mayor

Ken Krohl, OEM/FA

James Lawson, Deputy OEM Coordinator

Michael Oppegaard, Coordinator MC-OEM

Michael Scibetti, Assistant Coordinator

Joe Sheridan, Councilman

Henry Young, Fire Chief

Brittany Ashman, MB Planner

Michael Yaffe, MB Planner

Drafted by: Paige Kaspar

Introductions

Craig explained the hazard mitigation process and the Planning Brochure.

Mike O. would like Monmouth County to be competitive on getting FEMA funding; focus on SRL, RL, regional projects (i.e. the Bayshore), how can the County assist moving resiliency projects forward, prioritize actionable projects,









HMP goals and disaster crosswalk

Introduced mitigation actions, list of critical facilities, and explained the maps

3 RL properties have been raised-there is a plan addressing these elevations

Question on the Mitigation Action on 95 homes- properties not just homes- a lot of the affected areas were commercial.

- 44 Beers St: restaurant wiped out property; going to be replaced with nine elevated homes (but not constructed yet)
- 45 Beers St. Raised and occupied
- 149 W. Front St: restaurant that will be raised

a residential development is going in to a RL property; could use more Blue Acres funding; however this property is too expensive for Blue Acres (wanted more money than the property is worth). Economics don't support it. Would support turning this into a park.

- 340 W. Front: raised already
- 13 Walnut: will be raised

Creek needs to be dredged

Fireman's Park: three-year-old bulkhead washed away; grant funding could only replace what was there; it needed to be 6 feet higher than where it previously was; bulkhead was built at previous height. Issue there.

Maple Place Pump Station happened

Drive one generator back and forth; generators not using full capacity (only backs up 75 of the building)

Successful shelter at Keyport Central needs to be permanent; there are solar panels at the school but it goes to the grid- is it possible to use this energy during a storm; source of electricity not using. 200 sleeping and 500 feeding people were sheltered for 12 days (mostly Keyport, Avon, Union Beach)

Senior Center flooded, wall of bricks came down and crushed gas line

Continuity of Operations Plan?

First Aid Squad, then school for shelters; need to get the First Aid Center handicap accessible; shelters were over capacity

Keyport's Wish List:

Fireman's Park bulkhead raised

Permanent generators for Center School and the First Aid Center (both serve as a shelter);

44 Beers property for a park

Dredging of creeks









Pipes disrupt the wetlands so it can serve as a drainage basin

Bulkhead design ordinance Mike Yaffe

Leisure Bay- 50 Beer St (HUD property for Seniors): significance damage during Sandy and renovations have occurred

Bethany Manor - 500 Board (wall came down, landed on gas line): had to evacuate during Sandy by staircases; how can we get seniors out of there? What do you need to make it smoother for next time.

Could handle the water rising; but not the wave energy. Something is needed out in the water to dissipate wave energy. The wave energy destroyed a lot of buildings. Living shorelines, oyster reefshowever there is a lot of marinas. Need protections.

Mitigation Actions:

- 1. Elevation of 95 homes: change this to both commercials and residential properties
- 2. Acquire 2 flood-prone properties: no
- 3. Increase elevation and replacement of existing bulkhead:
- 4. Maple Place Pump Station Improvements: yes
- 5. Install generator: portable generators
- 6. Green Grove Ave drainage improvements:
- 7. Storm sewer piping:
- 8. Fireman's Park bulkhead: still a concern and a high priority
- 9. Install Tide values: in pre-construction
- 10. Bench Park pipe discharge on Division St.: in pre-construction

Monmouth County Debris Management is the only approved FEMA plan

Where are they going to have dumpsters for debris management plan? Permitting will not allow dumpsters to be located on Blue or Green Acres properties. Is it possible to regionalize dumpster placement

Do your codes allow for shore protection?

Had a lot of issues with DCA

First St properties want to be in CRS program; flood insurance is a big push for FEMA; is there a difference with flood insurance properties versus non-insured properties? No they didn't see a big difference in recovery time. There were a lot of issues with flood insurance properties

Capabilities include: professional Grants Specialist, Marina and Coastal Engineer that helped with FIRM appeals

Next Steps:

Send us all your neighborhood plans for capabilities

Are there areas in town that you would like to see properties bought out? Cluster buy out propertiesidentify properties for buy out or elevation properties and the County will identify funding opportunities









Loss in tax revenue- how do you mitigate that?

Just starting the CRS process, aim to be in the program by end of the year

Improve school safety and houses of worship: Keyport just passed a referendum on school safety and training on CPR,

Software for Substance Damage Assessment Process- countywide software

Discussing shared services: programs are underway

Concern over the Army Corp wall in Union Beach - can it be expanded to include Keyport? Cost- Benefit Analysis came back that it wouldn't be beneficial.

Meeting: Keyport HMP







Michael Baker

61-22-40 Date:

Initial	Last Name	First Name	Title	Organization	Email Address
-	Yaffe	A;chael	Planner	MBI	
	Weszer	Crains	For	MBF	
	Ashran	Britang	Pleaser	MRT	
	CLARK	MICHELE	DEPUTY CLER	Keyroa Bawla	KEYPOGT BROWGH MCIEKA KEYPORTONING. OM
	Nova C	HENRY	fire chief	Keyport F.J	HANKISKFD@aol.com
	Lawson	Lomos	RONDY OFM GRO KEYEST	Keyert	Dim Vindender Com
	Gally	Stephon	At ministantor	12eyport	Saylan Larporton line. Con
	Sheridan	106	Councilman	Keyport	Isheridan @ Keyportonline
	Harry	Ven	OIE M/14	lay port	Chiefoller my firetail M.







61-22-40 Date: Michael Baker Keyport HMP Meeting:

Initial	Last Name	First Name	Title	Organization	Email Address
	Kennody	Cellette	Modor	Keypert Borough	Keyport Bosough mayor Kennedye Heyportonling com
	PARRIS	Tre	Asst Director	MCPG	JOE. BARRIS & CO. roundAtt. NT. UF
and	FERM	MECHAIL	- 3	Keymar O.D	MERM GILLYPINTON, OAC
1	Offernant	michae(COORD-who	Ac-OBM	Monte sacule) Mosouton
B	Seasen	MICHAEL	KEY PORT OF PA	KEYPUT OFM	MScibetil @ Comeast. NET