

Appendix Vol I.35 Monmouth Beach Borough

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

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



NFIP Statistics

1,751 Policies In-force

1,743 Total Losses

\$109,860,448 Total Payments

148 Number of RL Properties

16 Number Mitigated
RL Properties

487 RL - Total Losses

\$26,797,162 RL - Total Paid

20 Number of SRL Properties

0 Number Mitigated SRL
Properties

104 SRL - Total Losses

\$7,428,110 SRL - Total Paid

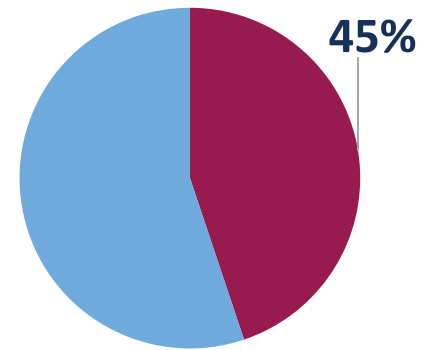


Critical Facilities

5 Critical Facilities

0 Critical Infrastructure

25 Historic & Cultural Resources



Percent Land Area Within SFHA

19

Total Mitigation
Actions

3



Education and Awareness Programs

11



Structure and Infrastructure Projects

5



Local Plans and Regulations

0



Natural Systems Protection



0 SV Population At Risk (2017)

1,457 Population at Risk (2017)

Monmouth Beach, Borough of

Monmouth County HMP Mitigation Action Summary

| Community Action # | Action Name | Action Description | Action Category | Action Type | Hazard(s) Addressed | Priority | Ease of Implementation | Responsible Party | Potential Funding Sources | Cost Estimate | Timeline | Action Status |
|--------------------|---|--|--|--------------------------------------|--|----------|------------------------|---|---|-----------------|----------|---------------|
| 35_01 | Elevate Existing Retaining Wall & Floodproof Pump Station at Shorelands Park | The existing sunken retaining wall needs to be elevated to a height of 15 feet to protect the park and its existing amenities from flood-related damage. | Mitigation - Risk Reduction | Structure and Infrastructure Project | Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge | High | Medium | Borough Administrator | FEMA HMA | \$1,400,000.00 | 1 year | Ongoing |
| 35_02 | Floodproofing Pump Station | Drainage improvements to mitigate storm-related flooding. | Mitigation - Risk Reduction | Structure and Infrastructure Project | Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge | | | Borough Administrator | FEMA Hazard Mitigation Grant, Borough funding | \$75,000.00 | | Withdrawn |
| 35_03 | Conduct Improvements to Drainage Infrastructure at Shorelands Park | Drainage Improvements to mitigate storm-related flooding. | Mitigation - Continuity of Fuctional Use | Structure and Infrastructure Project | Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge | Low | Medium | Borough Administrator, OEM, Borough Engineer, DPW | Municipal budget | \$15,000,000.00 | 3 years | Ongoing |
| 35_04 | 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 or acquire approximately 1,891 residential structures to new FEMA FIRM maps, specifically RL/SRL properties. | Mitigation - Risk Reduction | Structure and Infrastructure Project | Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge | High | Medium | Homeowners and/or Borough Administrator | FEMA HMA | \$1,500,000.00 | 3 years | Ongoing |
| 35_05 | Elevate Four Municipal Structures | Elevate the Police Station, Cultural Center, First Aid, and Fire House to new FEMA FIRM maps. | Mitigation - Risk Reduction | Structure and Infrastructure Project | Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge | High | Medium | Borough Administrator | FEMA Hazard Mitigation Grant, Borough funding, Army Core of Engineers | \$1,500,000.00 | 2 years | Ongoing |
| 35_06 | Install Stormwater Improvements in Low-laying Areas | Install stormwater improvements such as inlets, manholes, and piping for low lying areas such as Johnson St., Anderson St., Drew Ct., and Valentine St. | Mitigation - Continuity of Fuctional Use | Structure and Infrastructure Project | Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge | High | Low | Borough Administrator | Municipal budget | \$2,000,000.00 | 1 year | Ongoing |
| 35_07 | Expand the Existing Seawall | Expand the existing seawall to fill in the approx. 675 LF gap between Valentine St. and the south end of the Bathing Pavilion. | | Structure and Infrastructure Project | Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge | | | Borough Administrator | FEMA Hazard Mitigation Grant, Borough funding, Army Core of Engineers | \$10,000,000.00 | | Completed |
| 35_08 | Elevate Evacuation Roadways | Elevate the following roadways (listed in order of importance): (1) Patton Ave, (2) Riverdale, (3) Meadow Ave, and (4) North Rd. | Mitigation - Continuity of Fuctional Use | Structure and Infrastructure Project | Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge | High | Medium | Borough Engineering | FEMA HMA, Municipal budget | \$40,000,000.00 | 2 years | New |
| 35_09 | Elevate DPW Generator | Elevate generator at DPW at least 10ft. | Maintenance/Respon se/Recovery | Structure and Infrastructure Project | All Hazards | Low | Low | Borough DPW | FEMA HMA | \$50,000.00 | 1 year | New |

| Monmouth Beach, Borough of | | | | | Monmouth County HMP Mitigation Action Summary | | | | | | | |
|----------------------------|---|---|-------------------------------|--------------------------------------|--|----------|------------------------|--|---|----------------|----------|---------------|
| Community Action # | Action Name | Action Description | Action Category | Action Type | Hazard(s) Addressed | Priority | Ease of Implementation | Responsible Party | Potential Funding Sources | Cost Estimate | Timeline | Action Status |
| 35_10 | Purchase and Install Permanent Roof for Salt Shed | Permanent roof for the Borough's salt shed, which stores the salt for DPW's salt trucks. | Maintenance/Response/Recovery | Structure and Infrastructure Project | Extreme Wind, Nor'easter, Hurricane and Tropical Storm | Low | Low | DPW | Municipal budget | \$100,000.00 | 1 year | New |
| 35_11 | Purchase Drones for Research & Recovery Attempts | Drones and drone training. The Police Department have completed the training already. | Maintenance/Response/Recovery | Education and Awareness Programs | All Hazards | Low | Low | OEM | Homeland Security grants | \$5,000.00 | 2 years | New |
| 35_12 | Install Surveillance Cameras at Critical Facilities | Install security cameras at Griffin Park, Shorelands Park, Bathing Room, and Recycling Center for surveillance of human-based hazards (terrorism, vandalism) and natural hazards (flood, water levels). | Maintenance/Response/Recovery | Structure and Infrastructure Project | All Hazards | Low | Low | Borough Administration | Homeland Security grants | \$10,000.00 | 1 year | New |
| 35_13 | Develop a Winter Storm Response Plan | Improve capability to respond to winter storm events by purchasing a new salt spreader truck and new inflatable boat. | Maintenance/Response/Recovery | Local Plans and Regulations | Winter Storm | Low | Low | Borough Administrator | Borough funding | \$350,000.00 | 1 year | New |
| 35_14 | Develop a Civil Unrest Response Plan and Preparation | Improve ability to respond to a civil unrest event by purchasing shields, helmets and riot gear. | Maintenance/Response/Recovery | Education and Awareness Programs | Terrorism | Low | Low | Borough Administrator, OEM | Homeland Security Grants, Borough Funding | \$70,000.00 | 1 year | New |
| 35_15 | Develop a Cyber Attack Response | Update emergency response plans to address, mitigate, and recover from a potential cyber attack affecting the operation of borough activities. | Maintenance/Response/Recovery | Education and Awareness Programs | Terrorism | Low | Low | Borough Administration | Homeland Security Grants, Borough Funding | \$1,000,000.00 | 1 year | New |
| 35_16 | Develop an Action Plan to Address Economic Collapse | Plan, develop, and maintain a borough-wide action plan to address the public safety response in the event of an economic collapse. The plan should be all inclusive to safeguard and protect all critical facilities. | Maintenance/Response/Recovery | Local Plans and Regulations | All Hazards | Low | Low | Borough Administration | Homeland Security Grants, Borough Funding | \$70,000.00 | 1 year | New |
| 35_17 | Develop an Action plan to Address Pandemic Event Action | Emergency Response to address pandemic event. | Maintenance/Response/Recovery | Local Plans and Regulations | All Hazards | Low | Low | Borough Administration | Homeland Security Grants, Borough Funding | \$70,000.00 | 1 year | New |
| 35_18 | Develop an Action plan to Address Power Failure | Action plan to address and respond to power failure events and install a generator at Monmouth Beach Elementary School | Maintenance/Response/Recovery | Local Plans and Regulations | All Hazards | Low | Low | Borough Administration, OEM, Borough Engineer, DPW | Homeland Security Grants, Borough Funding | \$300,000.00 | 1 year | New |

Monmouth Beach, Borough of

Monmouth County HMP Mitigation Action Summary

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

| | | | | | | | | | | | | |
|-------|-----------------------------------|--|-------------------------------|-----------------------------|-----------|-----|-----|---|---|--|--------|-----|
| 35_19 | Develop a Terrorism Response Plan | Emergency Response to Terroristic Threat | Maintenance/Response/Recovery | Local Plans and Regulations | Terrorism | Low | Low | Borough Administration, OEM, Police, Fire, EMS, DPW | Homeland Security Grants, Borough Funding | | 1 year | New |
|-------|-----------------------------------|--|-------------------------------|-----------------------------|-----------|-----|-----|---|---|--|--------|-----|

Monmouth County Mitigation Action Worksheets

Community Action Number: 35_01

Monmouth Beach, Borough of

Describing the Action

| | |
|------------------------|--|
| Action Name: | Elevate Existing Retaining Wall & Floodproof Pump Station at Shorelands Park |
| Action Category: | Mitigation - Risk Reduction |
| Action Type: | Structure and Infrastructure Project |
| HMA Eligible Activity: | Structure Elevation |
| Action Description: | The existing sunken retaining wall needs to be elevated to a height of 15 feet to protect the park and its existing amenities from flood-related damage. |

Evaluating the Action

| | |
|-----------------------------|---|
| Hazard(s) Addressed: | Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge |
| Goals: | 2, 3, 5, 6, 7 |
| Risk Reduction: | The elevation of the existing retaining wall at Shorelands Park is not high enough and when it is breached, residential structures and the pump station at the northern terminus of Monmouth Parkway incur significant flooding damage. Floodwaters also erode, litter, and change the topography of the park. Monmouth Beach is located on a narrow strip of land just south of Sea Bright. All of Monmouth Beach is in an area mapped as potentially susceptible to storm surge. Most of Monmouth Beach was inundated during Superstorm Sandy; a great deal of this was back bay flooding which this retaining wall protects. |
| Technical: | This mitigation project is technically feasible. |
| Political: | This project was advised by commissioners and the Mayor. |
| Legal: | The community does have the legal authority to implement this project. |
| Environmental: | There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations. |
| Social: | There are no social impacts from this project on the community. |
| Administrative Capability: | The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the project and construction |
| Local Champion: | Commissioners and the Mayor |
| Other Community Objectives: | Capital improvements |
| STAPLEE Evaluation: | 12 |

Implementing the Action

| | |
|----------------------------------|---|
| Cost Estimate: | \$1,400,000.00 |
| Priority: | High |
| Scale of Ease of Implementation: | Medium |
| Responsible Party: | Borough Administrator |
| Local Planning Mechanism: | Mitigation activities will be implemented according to all governing regulatory documents. |
| Likely Funding Source(s): | FEMA HMA |
| Timeline: | 1 year |
| Action Status: | Ongoing |
| Notes: | Ongoing 2015 action; combining with Community Action 35_02. Rewarded \$150K, but need grant extensions, partial grant HMPG, waiting for more grant money. |

Monmouth County Mitigation Action Worksheets

Community Action Number: 35_02

Monmouth Beach, Borough of

Describing the Action

Action Name: Floodproofing Pump Station

Action Category: Mitigation - Risk Reduction

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Mitigation Reconstruction

Action Description: Drainage improvements to mitigate storm-related flooding.

Evaluating the Action

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

Goals: 2, 3, 5, 6, 7

Risk Reduction: Flooding occurs in the residential area around the pump station at the northern terminus of Monmouth Parkway.

Technical: This mitigation is technically feasible.

Political: This project was advised by commissioners and the Mayor.

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

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

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

Administrative Capability: The community does have the personnel and administrative capability implement this action. Borough would have to bid the project and construction.

Local Champion: Commissioners and the Mayor

Other Community Objectives: Capital improvements

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$75,000.00

Priority:

Scale of Ease of Implementation:

Responsible Party: Borough Administrator

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

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

Timeline:

Action Status: Withdrawn

Notes: Combined with Community Action #35_01.

Monmouth County Mitigation Action Worksheets

Community Action Number: 35_03

Monmouth Beach, Borough of

Describing the Action

Action Name: Conduct Improvements to Drainage Infrastructure at Shorelands Park

Action Category: Mitigation - Continuity of Fuctional Use

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Miscellaneous/Other/NA

Action Description: Drainage Improvements to mitigate storm-related flooding.

Evaluating the Action

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

Goals: 2, 3, 5,6,7

Risk Reduction: Shorelands Park is prone to flooding.

Technical: This mitigation project is technically feasible.

Political: No political obstacles anticipated

Legal: Homes must be elevated in compliance with the new FEMA flood maps once they are finalized.

Environmental: No adverse environmental impacts

Social: Does not adversely affect any particular social group. Perceived by the public to be beneficial because it keeps the community safe.

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

Local Champion: Borough Administrator

Other Community Objectives: Capital improvements

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$15,000,000.00

Priority: Low

Scale of Ease of Implementation: Medium

Responsible Party: Borough Administrator, OEM, Borough Engineer, DPW

Local Planning Mechanism: Hazard Mitigation Plan

Likely Funding Source(s): Municipal budget

Timeline: 3 years

Action Status: Ongoing

Notes: HMGP pending obligation as of 2020: Shorelands Park Drainage Improvement project

Monmouth County Mitigation Action Worksheets

Community Action Number: 35_04

Monmouth Beach, 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: | Elevate or acquire approximately 1,891 residential structures to new FEMA FIRM maps, specifically RL/SRL properties. |

Evaluating the Action

| | |
|-----------------------------|--|
| Hazard(s) Addressed: | Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge |
| Goals: | 2, 3, 5 |
| Risk Reduction: | Monmouth Beach is located on a narrow strip of land just south of Sea Bright. All of Monmouth Beach is in an areas mapped as potentially susceptible to storm surge. Most of Monmouth Beach was inundated during Superstorm Sandy; a great deal of damage was back bay flooding. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area. |
| Technical: | This mitigation project is technically feasible. |
| Political: | This project was advised by commissioners and the Mayor. |
| Legal: | Homes must be elevated in compliance with the new FEMA flood maps once they are finalized |
| Environmental: | Positively impacts the environment by increasing the permeable surface for each homeowner property |
| Social: | Municipality workers may need to relocate while the structural elevation is implemented. |
| Administrative Capability: | The community does have the personnel and homeowners will maintain projects. bid the project and construction |
| Local Champion: | Commissioners and the Mayor |
| Other Community Objectives: | Capital improvements |
| STAPLEE Evaluation: | 10 |

Implementing the Action

| | |
|----------------------------------|--|
| Cost Estimate: | \$1,500,000.00 |
| Priority: | High |
| Scale of Ease of Implementation: | Medium |
| Responsible Party: | Homeowners and/or Borough Administrator |
| Local Planning Mechanism: | Mitigation activities will be implemented according to all governing regulatory documents, additionally current code r |
| Likely Funding Source(s): | FEMA HMA |
| Timeline: | 3 years |
| Action Status: | Ongoing |
| Notes: | Ongoing 2015 action; 100 structures have been elevated already. |

Monmouth County Mitigation Action Worksheets

Community Action Number: 35_05

Monmouth Beach, Borough of

Describing the Action

| | |
|------------------------|---|
| Action Name: | Elevate Four Municipal Structures |
| Action Category: | Mitigation - Risk Reduction |
| Action Type: | Structure and Infrastructure Project |
| HMA Eligible Activity: | Mitigation Reconstruction |
| Action Description: | Elevate the Police Station, Cultural Center, First Aid, and Fire House to new FEMA FIRM maps. |

Evaluating the Action

| | |
|-----------------------------|---|
| Hazard(s) Addressed: | Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge |
| Goals: | 2, 3, 5, 7 |
| Risk Reduction: | The critical facilities are located in the SFHA and need to be elevated |
| Technical: | This mitigation project is technically feasible |
| Political: | This project was advised by commissioners and the Mayor. |
| Legal: | The community does have the legal authority to implement this project |
| Environmental: | There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations. |
| Social: | There are no social impacts from this project on the community. |
| Administrative Capability: | The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the project and construction. |
| Local Champion: | Commissioners and the Mayor |
| Other Community Objectives: | Capital improvements |
| STAPLEE Evaluation: | 12 |

Implementing the Action

| | |
|----------------------------------|--|
| Cost Estimate: | \$1,500,000.00 |
| Priority: | High |
| Scale of Ease of Implementation: | Medium |
| Responsible Party: | Borough Administrator |
| Local Planning Mechanism: | Mitigation activities will be implemented according to oil governing regulatory documents |
| Likely Funding Source(s): | FEMA Hazard Mitigation Grant, Borough funding, Army Core of Engineers |
| Timeline: | 2 years |
| Action Status: | Ongoing |
| Notes: | <p>Ongoing 2015 action; Borough Hall and the Library are elevated, DPW added concrete walls and elevated, still need to elevate Police Station, Cultural Center, First Aid, and Fire House.</p> <p>The Borough was awarded FEMA Funding 406 Public Assistance for damages to the Cultural Center (\$10k), Borough Hall (\$45k), the First Aid Building (\$50k), and the Fire House (1.9M) after Sandy.</p> |

Monmouth County Mitigation Action Worksheets

Community Action Number: 35_06

Monmouth Beach, Borough of

Describing the Action

| | |
|------------------------|---|
| Action Name: | Install Stormwater Improvements in Low-laying Areas |
| Action Category: | Mitigation - Continuity of Fuctional Use |
| Action Type: | Structure and Infrastructure Project |
| HMA Eligible Activity: | Miscellaneous/Other/NA |
| Action Description: | Install stormwater improvements such as inlets, manholes, and piping for low lying areas such as Johnson St., Anderson St., Drew Ct., and Valentine St. |

Evaluating the Action

| | |
|-----------------------------|--|
| Hazard(s) Addressed: | Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge |
| Goals: | 2, 3, 5 |
| Risk Reduction: | The Borough's drainage system does not currently accommodate typical periods of high runoff; this causes flooding in locations such as Johnson St., Anderson St., Drew Ct., and Valentine St. |
| Technical: | This project is technically feasible. |
| Political: | This project was advised by commissioners and the Mayor. |
| Legal: | The community does have the legal authority to implement this project. |
| Environmental: | There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations. DEP permits may be required. |
| Social: | There are no social impacts from implementing this action. |
| Administrative Capability: | The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the project and construction. Borough may need to get easements. |
| Local Champion: | Commissioners and the Mayor |
| Other Community Objectives: | Capital improvements |
| STAPLEE Evaluation: | N/A |

Implementing the Action

| | |
|----------------------------------|---|
| Cost Estimate: | \$2,000,000.00 |
| Priority: | High |
| Scale of Ease of Implementation: | Low |
| Responsible Party: | Borough Administrator |
| Local Planning Mechanism: | Mitigation activities will be implemented according to all governing regulatory documents, additionally current code r |
| Likely Funding Source(s): | Municipal budget |
| Timeline: | 1 year |
| Action Status: | Ongoing |
| Notes: | Ongoing 2015 action; new flap valves on outfalls located at Valentine St., Monmouth Parkway, Drew, Navesink Dr, Central Dr. |

Monmouth County Mitigation Action Worksheets

Community Action Number: 35_07

Monmouth Beach, Borough of

Describing the Action

| | |
|------------------------|--|
| Action Name: | Expand the Existing Seawall |
| Action Category: | |
| Action Type: | Structure and Infrastructure Project |
| HMA Eligible Activity: | Mitigation Reconstruction |
| Action Description: | Expand the existing seawall to fill in the approx. 675 LF gap between Valentine St. and the south end of the Bathing Pavilion. |

Evaluating the Action

| | |
|-----------------------------|---|
| Hazard(s) Addressed: | Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge |
| Goals: | 2, 3, 5, 7 |
| Risk Reduction: | The massive storm surges from Superstorm Sandy breached the existing sea wall and carried water over the wall, causing severe flooding and significant damages to both private residences and commercial business throughout the Borough. |
| Technical: | This mitigation is technically feasible. |
| Political: | This project was advised by commissioners and the Mayor. |
| Legal: | The community does have the legal authority to implement this project. |
| Environmental: | Environmental concerns such as disrupting the natural shoreline processes will be considered in the design and all federal, state, and local regulations will be followed. |
| Social: | There are no social impacts from this project on the community. |
| Administrative Capability: | The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the project and construction. |
| Local Champion: | Commissioners and the Mayor as well as residents located on the west side of Ocean Ave. |
| Other Community Objectives: | Capital improvements |
| STAPLEE Evaluation: | 12 |

Implementing the Action

| | |
|----------------------------------|---|
| Cost Estimate: | \$10,000,000.00 |
| Priority: | |
| Scale of Ease of Implementation: | |
| Responsible Party: | Borough Administrator |
| Local Planning Mechanism: | Mitigation activities will be implemented according to all governing regulatory documents |
| Likely Funding Source(s): | FEMA Hazard Mitigation Grant, Borough funding, Army Core of Engineers |
| Timeline: | |
| Action Status: | Completed |
| Notes: | |

Monmouth County Mitigation Action Worksheets

Community Action Number: 35_08

Monmouth Beach, Borough of

Describing the Action

| | |
|------------------------|--|
| Action Name: | Elevate Evacuation Roadways |
| Action Category: | Mitigation - Continuity of Fuctional Use |
| Action Type: | Structure and Infrastructure Project |
| HMA Eligible Activity: | Structure Elevation |
| Action Description: | Elevate the following roadways (listed in order of importance): (1) Patton Ave, (2) Riverdale, (3) Meadow Ave, and (4) North Rd. |

Evaluating the Action

| | |
|-----------------------------|---|
| Hazard(s) Addressed: | Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge |
| Goals: | 3, 7 |
| Risk Reduction: | These roadways are critical to the evacuation of the town and cannot be flooded. |
| Technical: | Technically feasible. |
| Political: | No adverse political ramifications are expected. |
| Legal: | No legal issues anticipated. |
| Environmental: | Elevation of roadways would involve significant reconstruction of roadways which will have some impacts on the surrounding environment. |
| Social: | Could adversely impact property owners living adjacent to roadways. |
| Administrative Capability: | Borough has sufficient capacity and experience to administer this action |
| Local Champion: | Mayor, Administrator, OEM |
| Other Community Objectives: | |
| STAPLEE Evaluation: | N/A |

Implementing the Action

| | |
|----------------------------------|----------------------------|
| Cost Estimate: | \$40,000,000.00 |
| Priority: | High |
| Scale of Ease of Implementation: | Medium |
| Responsible Party: | Borough Engineering |
| Local Planning Mechanism: | Hazard Mitigation Plan |
| Likely Funding Source(s): | FEMA HMA, Municipal budget |
| Timeline: | 2 years |
| Action Status: | New |
| Notes: | |

Monmouth County Mitigation Action Worksheets

Community Action Number: 35_09

Monmouth Beach, Borough of

Describing the Action

Action Name: Elevate DPW Generator

Action Category: Maintenance/Response/Recovery

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Generators

Action Description: Elevate generator at DPW at least 10ft.

Evaluating the Action

Hazard(s) Addressed: All Hazards

Goals: 3, 7

Risk Reduction: The generator is not above the BFE and is susceptible to flooding and power loss during storm events.

Technical: Technically feasible.

Political: No political obstacles anticipated.

Legal: No legal issues expected.

Environmental: No adverse environmental impacts.

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

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

Local Champion: OEM, Public Works

Other Community Objectives:

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$50,000.00

Priority: Low

Scale of Ease of Implementation: Low

Responsible Party: Borough DPW

Local Planning Mechanism: Hazard Mitigation Plan

Likely Funding Source(s): FEMA HMA

Timeline: 1 year

Action Status: New

Notes:

Monmouth County Mitigation Action Worksheets

Community Action Number: 35_10

Monmouth Beach, Borough of

Describing the Action

| | |
|------------------------|--|
| Action Name: | Purchase and Install Permanent Roof for Salt Shed |
| Action Category: | Maintenance/Response/Recovery |
| Action Type: | Structure and Infrastructure Project |
| HMA Eligible Activity: | Miscellaneous/Other/NA |
| Action Description: | Permanent roof for the Borough's salt shed, which stores the salt for DPW's salt trucks. |

Evaluating the Action

| | |
|-----------------------------|--|
| Hazard(s) Addressed: | Extreme Wind, Nor'easter, Hurricane and Tropical Storm |
| Goals: | 3, 7 |
| Risk Reduction: | The existing shed has a roof that is easily ripped by the wind; needs a permanent roof to prevent wind from taking the salt. |
| Technical: | Technically feasible. |
| Political: | No political obstacles anticipated. |
| Legal: | No legal issues expected; the salt shed and is located on Borough property behind Borough Hall. |
| Environmental: | No adverse environmental impacts. |
| Social: | Does not adversely affect any particular social group. Perceived by the public to be beneficial because it supports local services during emergencies. |
| Administrative Capability: | Borough has sufficient capacity and experience to administer this action |
| Local Champion: | DPW |
| Other Community Objectives: | |
| STAPLEE Evaluation: | N/A |

Implementing the Action

| | |
|----------------------------------|--|
| Cost Estimate: | \$100,000.00 |
| Priority: | Low |
| Scale of Ease of Implementation: | Low |
| Responsible Party: | DPW |
| Local Planning Mechanism: | Hazard Mitigation Plan |
| Likely Funding Source(s): | Municipal budget |
| Timeline: | 1 year |
| Action Status: | New |
| Notes: | Post- Sandy, the Borough was awarded \$607 to manufacture and install the new canopy and side drops (FEMA 406 Public Assistance Grant) |

Monmouth County Mitigation Action Worksheets

Community Action Number: 35_11

Monmouth Beach, Borough of

Describing the Action

| | |
|------------------------|---|
| Action Name: | Purchase Drones for Research & Recovery Attempts |
| Action Category: | Maintenance/Response/Recovery |
| Action Type: | Education and Awareness Programs |
| HMA Eligible Activity: | Miscellaneous/Other |
| Action Description: | Drones and drone training. The Police Department have completed the training already. |

Evaluating the Action

| | |
|-----------------------------|--|
| Hazard(s) Addressed: | All Hazards |
| Goals: | 1, 2, 3, 5, 7 |
| Risk Reduction: | Drones can assist with any hazard, such as a fire or terrorist attack. The drones can give extra eyes for first responders; in addition they can assist with hazard mitigation research by flying over areas that are not physically accessible. |
| Technical: | Technically feasible. |
| Political: | No political obstacles anticipated. |
| Legal: | No legal issues expected. |
| Environmental: | No adverse environmental impacts. |
| Social: | Does not adversely affect any particular social group. Perceived by the public to be beneficial because it supports local services during emergencies. |
| Administrative Capability: | Borough has sufficient capacity and experience to administer this action |
| Local Champion: | Police, OEM, Mayor |
| Other Community Objectives: | |
| STAPLEE Evaluation: | N/A |

Implementing the Action

| | |
|----------------------------------|--------------------------|
| Cost Estimate: | \$5,000.00 |
| Priority: | Low |
| Scale of Ease of Implementation: | Low |
| Responsible Party: | OEM |
| Local Planning Mechanism: | Hazard Mitigation Plan |
| Likely Funding Source(s): | Homeland Security grants |
| Timeline: | 2 years |
| Action Status: | New |

Notes:

Monmouth County Mitigation Action Worksheets

Community Action Number: 35_12

Monmouth Beach, Borough of

Describing the Action

| | |
|------------------------|---|
| Action Name: | Install Surveillance Cameras at Critical Facilities |
| Action Category: | Maintenance/Response/Recovery |
| Action Type: | Structure and Infrastructure Project |
| HMA Eligible Activity: | Localized Flood Risk Reduction Projects |
| Action Description: | Install security cameras at Griffin Park, Shorelands Park, Bathing Room, and Recycling Center for surveillance of human-based hazards (terrorism, vandalism) and natural hazards (flood, water levels). |

Evaluating the Action

| | |
|-----------------------------|--|
| Hazard(s) Addressed: | All Hazards |
| Goals: | 1, 2, 3, 5, 7 |
| Risk Reduction: | These critical facilities are vulnerable to a terrorist attack or smaller crimes, such as vandalism in addition to flooding from the back bay; these areas need to be monitored. |
| Technical: | Technically feasible |
| Political: | No political obstacles anticipated. |
| Legal: | No legal issues expected. |
| Environmental: | No adverse environmental impacts. |
| Social: | Does not adversely affect any particular social group. Perceived by the public to be beneficial because it keeps the community safe. |
| Administrative Capability: | Borough has sufficient capacity and experience to administer this action. |
| Local Champion: | OEM |
| Other Community Objectives: | |
| STAPLEE Evaluation: | N/A |

Implementing the Action

| | |
|----------------------------------|--------------------------|
| Cost Estimate: | \$10,000.00 |
| Priority: | Low |
| Scale of Ease of Implementation: | Low |
| Responsible Party: | Borough Administration |
| Local Planning Mechanism: | Hazard Mitigation Plan |
| Likely Funding Source(s): | Homeland Security grants |
| Timeline: | 1 year |
| Action Status: | New |
| Notes: | |

Monmouth County Mitigation Action Worksheets

Community Action Number: 35_13

Monmouth Beach, Borough of

Describing the Action

| | |
|------------------------|---|
| Action Name: | Develop a Winter Storm Response Plan |
| Action Category: | Maintenance/Response/Recovery |
| Action Type: | Local Plans and Regulations |
| HMA Eligible Activity: | Advance Assistance |
| Action Description: | Improve capability to respond to winter storm events by purchasing a new salt spreader truck and new inflatable boat. |

Evaluating the Action

| | |
|-----------------------------|--|
| Hazard(s) Addressed: | Winter Storm |
| Goals: | 1,2,3,4,5,6,7 |
| Risk Reduction: | Reduction in damages and losses due to winter storm residual affects; including potential power loss due to downed Power lines, increased response times of emergency personnel due to poor road conditions and possible health Hazards due to potential loss of heat and other utilities. |
| Technical: | Technically feasible. |
| Political: | No political obstacles anticipated |
| Legal: | No legal issues expected. |
| Environmental: | No adverse environmental impacts. |
| Social: | Does not adversely affect any particular social group. Perceived by the public to be beneficial because it keeps the community safe. |
| Administrative Capability: | Borough has sufficient capacity and experience to administer this action. |
| Local Champion: | OEM |
| Other Community Objectives: | |
| STAPLEE Evaluation: | N/A |

Implementing the Action

| | |
|----------------------------------|------------------------|
| Cost Estimate: | \$350,000.00 |
| Priority: | Low |
| Scale of Ease of Implementation: | Low |
| Responsible Party: | Borough Administrator |
| Local Planning Mechanism: | Hazard Mitigation Plan |
| Likely Funding Source(s): | Borough funding |
| Timeline: | 1 year |
| Action Status: | New |
| Notes: | |

Monmouth County Mitigation Action Worksheets

Community Action Number: 35_14

Monmouth Beach, Borough of

Describing the Action

| | |
|------------------------|--|
| Action Name: | Develop a Civil Unrest Response Plan and Preparation |
| Action Category: | Maintenance/Response/Recovery |
| Action Type: | Education and Awareness Programs |
| HMA Eligible Activity: | Advance Assistance |
| Action Description: | Improve ability to respond to a civil unrest event by purchasing shields, helmets and riot gear. |

Evaluating the Action

| | |
|-----------------------------|---|
| Hazard(s) Addressed: | Terrorism |
| Goals: | 1,2,5,7 |
| Risk Reduction: | To reduce the potential loss of life and property damage in the event of a civil uprising event. In preparation, Police vehicles and equipment in addition to other public safety apparatus will be dispatched accordingly at strategic locations throughout the borough. |
| Technical: | Technically feasible. |
| Political: | No political obstacles anticipated. |
| Legal: | No legal issues expected. |
| Environmental: | No adverse environmental impacts. |
| Social: | Does not adversely affect any particular social group. Perceived by the public to be beneficial because it keeps the community safe |
| Administrative Capability: | Borough has sufficient capacity and experience to administer this action. |
| Local Champion: | OEM |
| Other Community Objectives: | |
| STAPLEE Evaluation: | N/A |

Implementing the Action

| | |
|----------------------------------|---|
| Cost Estimate: | \$70,000.00 |
| Priority: | Low |
| Scale of Ease of Implementation: | Low |
| Responsible Party: | Borough Administrator, OEM |
| Local Planning Mechanism: | Hazard Mitigation Plan |
| Likely Funding Source(s): | Homeland Security Grants, Borough Funding |
| Timeline: | 1 year |
| Action Status: | New |
| Notes: | |

Monmouth County Mitigation Action Worksheets

Community Action Number: 35_15

Monmouth Beach, Borough of

Describing the Action

| | |
|------------------------|--|
| Action Name: | Develop a Cyber Attack Response |
| Action Category: | Maintenance/Response/Recovery |
| Action Type: | Education and Awareness Programs |
| HMA Eligible Activity: | Advance Assistance |
| Action Description: | Update emergency response plans to address, mitigate, and recover from a potential cyber attack affecting the operation of borough activities. |

Evaluating the Action

| | |
|-----------------------------|--|
| Hazard(s) Addressed: | Terrorism |
| Goals: | 1,2,5,7 |
| Risk Reduction: | Due to the increasing number of frequent occurrences involving cyber attacks and threats, the borough should be Prepared to prevent or avoid any potential hackers from gaining unauthorized access to their computer systems. In addition, by maintaining the integrity of the borough's networks and systems, this reduces the chances of Compromise and an imminent threat to life, health and public safety. |
| Technical: | Technically feasible |
| Political: | No political obstacles anticipated |
| Legal: | No legal issues expected |
| Environmental: | No adverse environmental impacts |
| Social: | Does not adversely affect any particular social group. Perceived by the public to be beneficial because it keeps the community safe. |
| Administrative Capability: | Borough has sufficient capacity and experience to administer this action. |
| Local Champion: | OEM |
| Other Community Objectives: | |
| STAPLEE Evaluation: | N/A |

Implementing the Action

| | |
|----------------------------------|---|
| Cost Estimate: | \$1,000,000.00 |
| Priority: | Low |
| Scale of Ease of Implementation: | Low |
| Responsible Party: | Borough Administration |
| Local Planning Mechanism: | Hazard Mitigation Plan |
| Likely Funding Source(s): | Homeland Security Grants, Borough Funding |
| Timeline: | 1 year |
| Action Status: | New |
| Notes: | |

Monmouth County Mitigation Action Worksheets

Community Action Number: 35_16

Monmouth Beach, Borough of

Describing the Action

| | |
|------------------------|---|
| Action Name: | Develop an Action Plan to Address Economic Collapse |
| Action Category: | Maintenance/Response/Recovery |
| Action Type: | Local Plans and Regulations |
| HMA Eligible Activity: | Miscellaneous/Other |
| Action Description: | Plan, develop, and maintain a borough-wide action plan to address the public safety response in the event of an economic collapse. The plan should be all inclusive to safeguard and protect all critical facilities. |

Evaluating the Action

| | |
|-----------------------------|--|
| Hazard(s) Addressed: | All Hazards |
| Goals: | 2 |
| Risk Reduction: | To reduce, minimize and prevent any loss of public/private property in the event of an economic collapse or downturn. |
| Technical: | Technically Feasible |
| Political: | No political obstacles anticipated |
| Legal: | No legal issues expected |
| Environmental: | No adverse environmental impacts |
| Social: | Does not adversely affect any particular social group. Perceived by the public to be beneficial because it keeps the community safe. |
| Administrative Capability: | Borough has sufficient capacity and experience to administer this action. |
| Local Champion: | OEM, Borough Administration |
| Other Community Objectives: | |
| STAPLEE Evaluation: | N/A |

Implementing the Action

| | |
|----------------------------------|---|
| Cost Estimate: | \$70,000.00 |
| Priority: | Low |
| Scale of Ease of Implementation: | Low |
| Responsible Party: | Borough Administration |
| Local Planning Mechanism: | Hazard Mitigation Plan |
| Likely Funding Source(s): | Homeland Security Grants, Borough Funding |
| Timeline: | 1 year |
| Action Status: | New |
| Notes: | |

Monmouth County Mitigation Action Worksheets

Community Action Number: 35_17

Monmouth Beach, Borough of

Describing the Action

Action Name: Develop an Action plan to Address Pandemic Event Action

Action Category: Maintenance/Response/Recovery

Action Type: Local Plans and Regulations

HMA Eligible Activity: Miscellaneous/Other

Action Description: Emergency Response to address pandemic event.

Evaluating the Action

Hazard(s) Addressed: All Hazards

Goals: 1,3,5,6,7

Risk Reduction: To reduce and/or prevent the loss of life and spread of potential communicable diseases or contamination by harmful substances.

Technical: Technically Feasible

Political: No political obstacles anticipated

Legal: No legal issues expected

Environmental: No adverse environmental impacts

Social: Does not adversely affect any particular social group. Perceived by the public to be beneficial because it keeps the community safe.

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

Local Champion: OEM, Borough Administration

Other Community Objectives:

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$70,000.00

Priority: Low

Scale of Ease of Implementation: Low

Responsible Party: Borough Administration

Local Planning Mechanism: Hazard Mitigation Plan

Likely Funding Source(s): Homeland Security Grants, Borough Funding

Timeline: 1 year

Action Status: New

Notes:

Monmouth County Mitigation Action Worksheets

Community Action Number: 35_18

Monmouth Beach, Borough of

Describing the Action

| | |
|------------------------|--|
| Action Name: | Develop an Action plan to Address Power Failure |
| Action Category: | Maintenance/Response/Recovery |
| Action Type: | Local Plans and Regulations |
| HMA Eligible Activity: | Miscellaneous/Other |
| Action Description: | Action plan to address and respond to power failure events and install a generator at Monmouth Beach Elementary School |

Evaluating the Action

| | |
|-----------------------------|--|
| Hazard(s) Addressed: | All Hazards |
| Goals: | 1,2,6,7 |
| Risk Reduction: | To reduce and/or prevent the loss of life and destruction of public and private property as a result of power failure. |
| Technical: | Technically Feasible |
| Political: | No political obstacles anticipated |
| Legal: | No legal issues expected |
| Environmental: | No adverse environmental impacts |
| Social: | Does not adversely affect any particular social group. Perceived by the public to be beneficial because it keeps the community safe. |
| Administrative Capability: | Borough has sufficient capacity and experience to administer this action. |
| Local Champion: | OEM, Borough Administration |
| Other Community Objectives: | |
| STAPLEE Evaluation: | N/A |

Implementing the Action

| | |
|----------------------------------|--|
| Cost Estimate: | \$300,000.00 |
| Priority: | Low |
| Scale of Ease of Implementation: | Low |
| Responsible Party: | Borough Administration, OEM, Borough Engineer, DPW |
| Local Planning Mechanism: | Hazard Mitigation Plan |
| Likely Funding Source(s): | Homeland Security Grants, Borough Funding |
| Timeline: | 1 year |
| Action Status: | New |
| Notes: | |

Monmouth County Mitigation Action Worksheets

Community Action Number: 35_19

Monmouth Beach, Borough of

Describing the Action

Action Name: Develop a Terrorism Response Plan

Action Category: Maintenance/Response/Recovery

Action Type: Local Plans and Regulations

HMA Eligible Activity: Miscellaneous/Other

Action Description: Emergency Response to Terroristic Threat

Evaluating the Action

Hazard(s) Addressed: Terrorism

Goals: 1,2,5,7

Risk Reduction: To reduce and/or prevent the loss of life and/or destruction of public and private property as a result of a terroristic event.

Technical: Technically Feasible

Political: No political obstacles anticipated

Legal: No legal issues expected

Environmental: No adverse environmental impacts.

Social: Does not adversely affect any particular social group. Perceived by the public to be beneficial because it keeps the community safe.

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

Local Champion: OEM, Borough Administration

Other Community Objectives:

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate:

Priority: Low

Scale of Ease of Implementation: Low

Responsible Party: Borough Administration, OEM, Police, Fire, EMS, DPW

Local Planning Mechanism: Hazard Mitigation Plan

Likely Funding Source(s): Homeland Security Grants, Borough Funding

Timeline: 1 year

Action Status: New

Notes:

CAPABILITY ASSESSMENT WORKSHEET

Name: Gerald Paige

Title: Grants Manager

Jurisdiction: Monmouth Beach Borough

Organization: T&M Associates

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

Planning & Regulatory

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

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



CAPABILITY ASSESSMENT WORKSHEET

| | | |
|--|---------------|--|
| Other special plans (e.g., brownfields redevelopment, disaster recovery, coastal zone management, climate change adaptation) | Yes | <ul style="list-style-type: none"> • Getting to Resilience (2017) • Floodplain Management Plan (2017) • Monmouth Beach Lot Coverage Study (2018) • Debris Management Plan • Borough Hazard Mitigation Plan (2017) • NJFRAMES • Strategic Recovery Planning Report |
| Building Code, Permitting, and Inspections | Yes/No | Are codes adequately enforced? |
| Building Code | Yes | Version/Year: |
| Building Code Effectiveness Grading Schedule (BCEGS) Score | No | Score: |
| Fire Department ISO rating | Yes | Rating: 4 |
| 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 | Zoning to allow for resiliency |
| Subdivision Ordinance | Yes | |
| Floodplain Ordinance | Yes | |
| Natural hazard ordinance (stormwater, steep slope, wildfire) | Yes | Stormwater Control Ordinance |
| Flood Insurance Rate Maps | Yes | Currently being updated by FEMA |
| Acquisition of Land for Open Space and Public Recreation Uses | No | |
| Post-Disaster Recovery Ordinance | No | |



CAPABILITY ASSESSMENT WORKSHEET

| | | |
|--|-----|----------------------------|
| Real Estate Disclose Ordinance | No | |
| Other (ie. Special Purposes Ordinance) | Yes | Special Purposes Ordinance |
| How can the above capabilities be expanded and improved to reduce risk? | | |
| | | |

Administrative & Technical

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

| Administration | Yes/No | Describe capability Is coordination effective? |
|--|-----------------|--|
| Planning Commission | Yes | |
| Mitigation Planning Committee | Yes | |
| Maintenance Programs to Reduce Risk (e.g., tree trimming, clearing drainage systems) | Yes | |
| Mutual Aid Agreements | Yes | |
| 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 | PT |
| Floodplain Administrator | Yes | FT |
| Emergency Manager | Yes | FT |



CAPABILITY ASSESSMENT WORKSHEET

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



CAPABILITY ASSESSMENT WORKSHEET

Financial

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

| Funding Resource | Access / Eligibility (Yes/No) | Has the funding resource been used in the past and for what type of activities? Could the resource be used to fund future mitigation actions? |
|--|-------------------------------|--|
| Capital Improvements Project Funding | Yes | |
| Authority to Levy Taxes for Specific Purposes | Yes | |
| Fees for Water, Sewer, Gas, or Electric Services | No | |
| Impact Fees for New Development | No | |
| Stormwater Utility Fee | No | |
| Incur Debt Through Private Activities | No | |
| Community Development Block Grant | Yes | |
| Other Federal Funding Programs | No | |
| State Funding Programs | Yes | |
| Other (e.g., withhold spending in hazard-prone areas) | Yes | Incur Debt through General Obligation |
| How can these capabilities be expanded and improved to reduce risk? | | |
| <p>The Borough will seek additional grant funding to supplement fiscal gaps. The Borough is financially capable of bonding to contribute to mitigation projects. They will seek alternative measures through ordinances or fundraising (including fees/taxes to levy on developers that will be dedicated specifically to mitigation projects). The Borough has a demonstrated track record of cooperating and providing technical and legal support to large projects for the protection of its shore and, specifically, easements required for seawall and beach replenishment projects.</p> | | |



CAPABILITY ASSESSMENT WORKSHEET

Education and Outreach

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

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





Building Classification

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

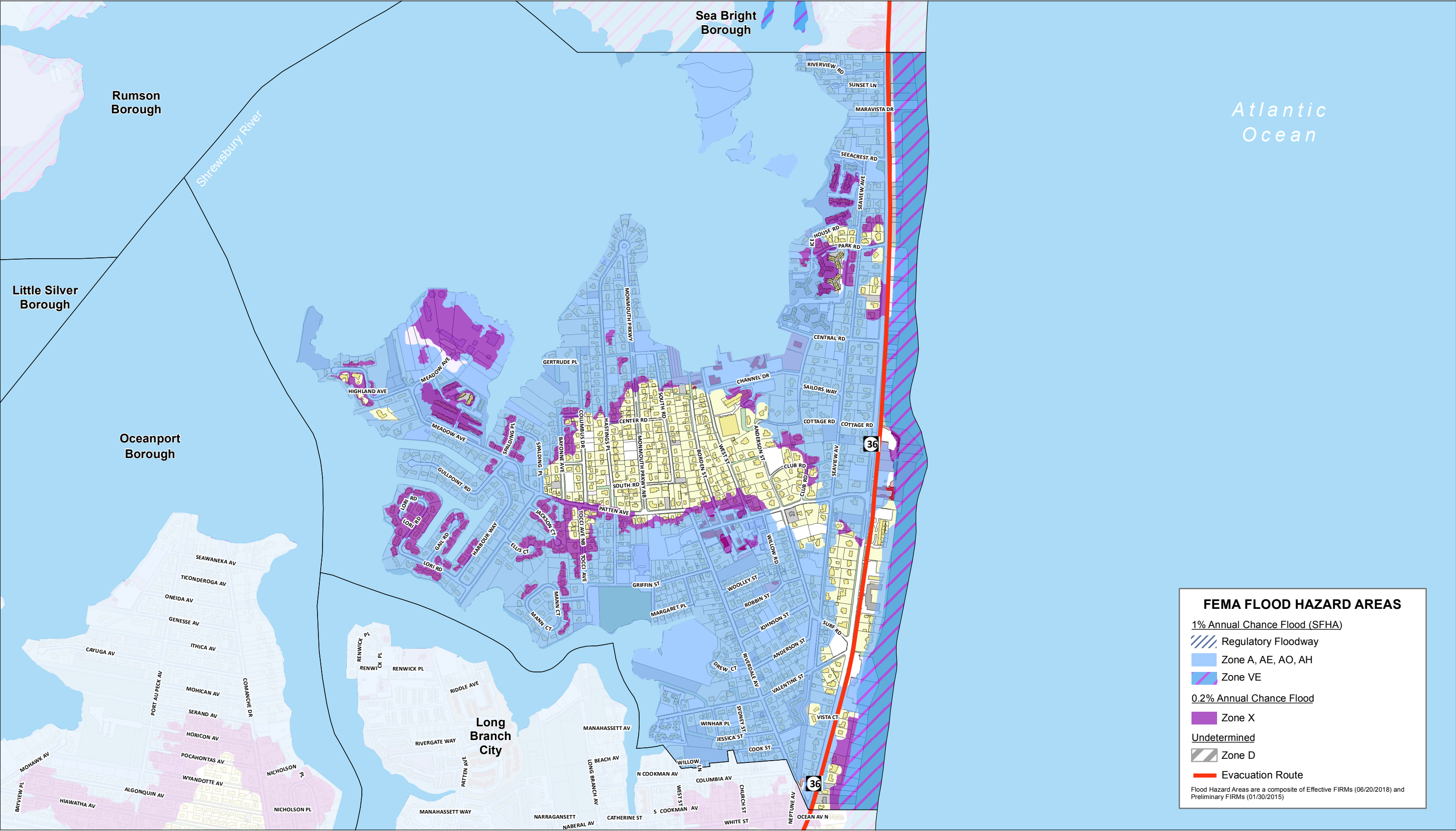
Parcel Classification

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

0 500 1,000 Feet

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





FEMA FLOOD HAZARD AREAS

1% Annual Chance Flood (SFHA)

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

0.2% Annual Chance Flood

- Zone X

Undetermined

- Zone D

Evacuation Route

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

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



MONMOUTH COUNTY HAZARD MITIGATION PLAN



Building Classification

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

Parcel Classification

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

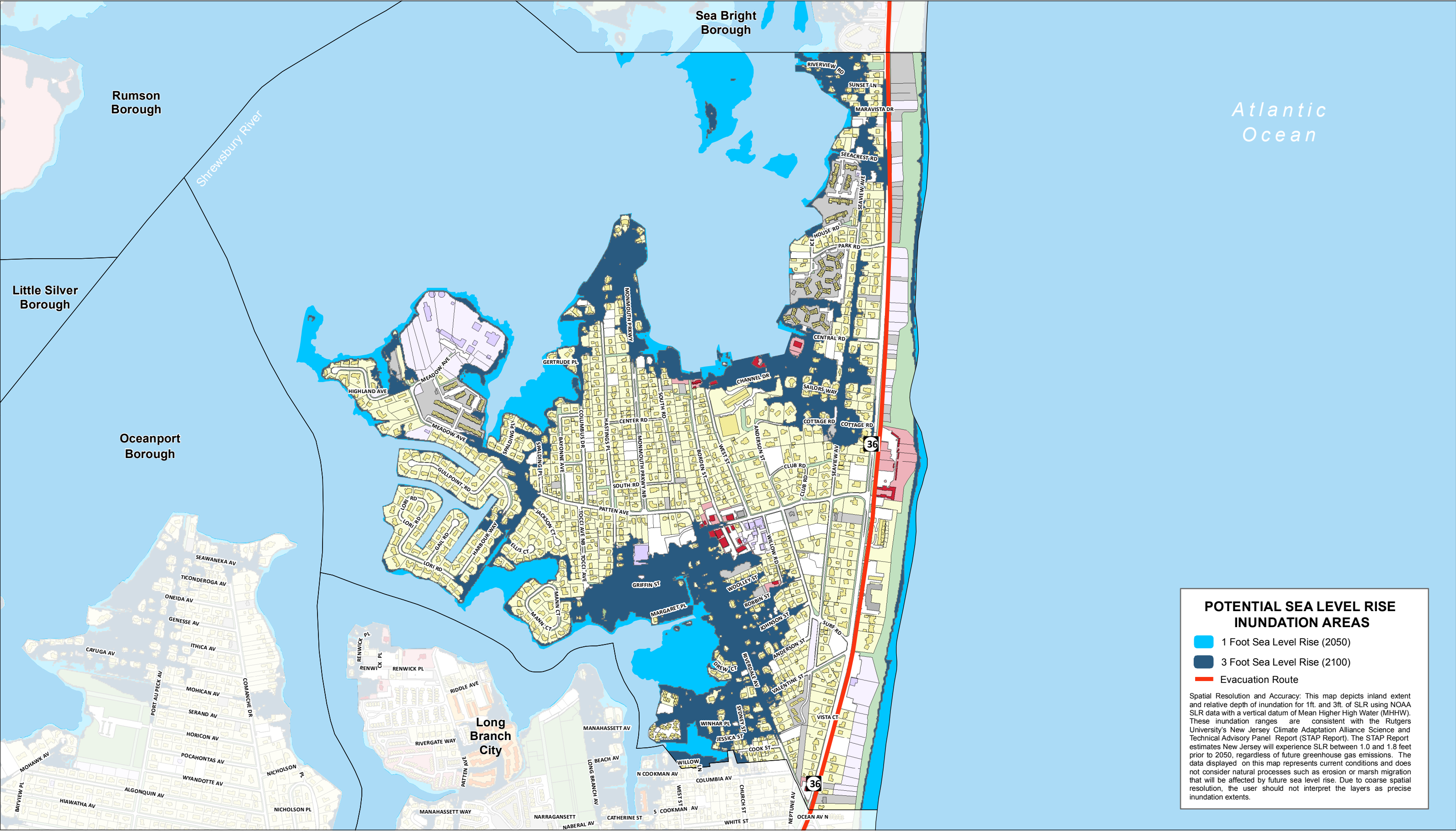
0 500 1,000 Feet



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



Michael Baker
INTERNATIONAL



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



MEETING NOTES

Topic: Matawan- Monmouth County HMP Meeting

Date: July 2, 2019

Time: 10:00 AM- 11:00 AM

Location: Borough Hall, 201 Broad Street, Matawan, NJ 07747

Attendees: Joe Chirichello, Monmouth Beach Public Works
Don Clare, Construction Official
Bonnie Heard, Borough Engineer/ Engineer Zoning Officer
Sue Howard, Mayor
Edward Junquet, OEM Deputy Coordinator
Aaron Rock, OEM Deputy Coordinator
Emily Trethewey, Borough Engineers Office Staff Design
Dana Webb, Engineering Support Tech
Judy Wilson, Borough Administrator
Brittany Ashman, MB Planner

Drafted by: Paige Kaspar

Introductions (Brittany):

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

2015 Mitigation Actions:

- Community Action 35_01/35_02 Elevate existing sunken retaining wall/Floodproofing pump station **Ongoing**
 - Combining actions 1 & 2
 - Cost estimate = \$1.4 million



- Funding issues: rewarded \$150K, but need grant extensions, partial grant HMPG, waiting for more grant money
 - Shorelands Park
- Community Action 35_03 Elevate approximately 1,991 residential structures **Ongoing**
 - 100 structures have been elevated already
- Community Action 35_04 Elevating six municipal structures **Ongoing**
 - Borough Hall and Library have been elevated
 - DPW added concrete walls and was elevated
 - Still need to elevate Police building, Cultural Center, First Aid, and Fire House
- Community Action 35_05 Raising and re-grouting of seawall **Completed**
 - Re-grouted areas that had been damages
 - Did not raise sea wall
 - Also see Action 7
- Community Action 35_06 Installation of stormwater systems **Ongoing**
 - Flap valves on Valentine St., Monmouth Parkway, Drew, Navensivk Dr, Central Dr.
 - New flap valves on outfalls
- Community Action 35_07 Expand existing seawall - **Completed**
 - Completed as of May 2019

2020 Mitigation Actions (NEW):

- 8 (1) Elevate Patton Ave, (2) Riverdale, (3) Meadow Ave, and (4) North Rd which are critical to the evacuation of the town (listed in order of importance)
- 9 Elevate 2nd floor generator at DPW at least 10ft
- 10 permanent roof for salt shed
- 11 Drones for Research & Recovery attempts → police have drones
- 12 Surveillance & watch flood water at Griffin Park, Shorelands Park, Bathing Room, Recycling Center

Successes

- Seaview Ave C: floodproofed JCP&L substation two years ago
- Schools: flood gates at elementary school, security cameras, locked doors, resource officer w/ gun



Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update



Michael Baker
INTERNATIONAL

Meeting: Monmouth Beach Borough

Date: 6/25/19

| Initial | Last Name | First Name | Title | Organization | Email Address |
|---------|-------------|------------|---|-----------------------------------|---------------------------------|
| DN | Webb | Dana | Eng. Support Tech. | T&M Associates | dwebb@tandmassassociates.com |
| BH | Heard | Bonnie | Borough Engineer | T&M - engineering zofhy office | bheard@tandmassassociates.com |
| NC | Clare | Don | Const. Official | Boro - Building | dclare@monmouthbeach.org |
| AR | Rock | Aaron | Deputy Coordinator | Boro - | aaron@monmouthbeach.org |
| EJ | Junquet | Edward | DEM Deputy Coordinator | Boro | ejunquet@monmouthbeach.org |
| JC | Chinichello | Joe | Monmouth Beach Public Works | Boro | jchinichello@monmouthbeach.org |
| SH | Howard | Eric | Mayor | Boro | showard@monmouthbeach.org |
| WV | Wilson | Judy | Borough Administrator | Boro | jwilson@monmouthbeach.org |
| EST | Tetthuey | Emily | Borough Engineers Office Staff Designer | TandM Associates | etethuey@tandmassassociates.com |



Date: 6/25/19

[illegible]