Appendix Vol I.22 Interlaken 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

0

NFIP Statistics

26 Polices In-force

17 Total Losses

\$182,430 Total Payments

Number of RL Properties

Number Mitigated RL Properties

4 RL - Total Losses

\$74,334 RL - Total Paid

Number of SRL Properties

Number Mitigated SRL Properties

SRL - Total Losses

\$0 SRL - Total Paid

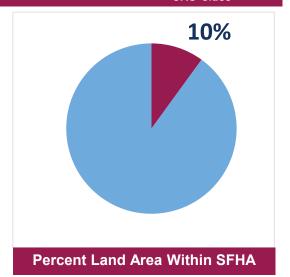
Critical Facilities



2 Critical Facilities

O Critical Infrastructure

16 Historic & Cultural Resources



3Total Mitigation Actions

0



Education and Awareness Programs

3



Structure and Infrastructure Projects

O



Local Plans and Regulations

0



Natural Systems Protection



SV Population At Risk (2017)

83 Population at Risk (2017)

Interla	ken.	Borou	gh of	
III CCI IG		Dolou	BII OI	

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
22_01	Systematically Conduct Upgrades and Improvements to Sewer Systems, Stormwater Systems, and Outflow Pipes	Over the course of several years, systematically make upgrades and improvements to sewer systems, storm water management systems, and outflow pipes. These improvements will increase capacity, will reduce blockage, and outflow pipes will be retrofitted with back/low valves.	Maintenance/Respon se/Recovery	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	Medium	Medium	Borough Administrator overseeing engineering firm	Sewer Taxes/Local Budget	\$1,000,000.00	2 years	Ongoing
22_02	Acquire, elevate, or relocate buildings and infrastructure in flood prone areas, with a focus on Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties	Elevation and/or acquisition of flood-prone residential structures, with particular focus on those in our community that are on FEMA's Repetitive Loss List and Severe Repetitive Loss List. New Jersey is committed to continuing the reduction of RL and SRL properties in the State; in turn, they have assigned a high priority to mitigating SRL and RL properties in the State Hazard Mitigation Plan. We are committed to supporting these projects as interested homeowners come forward and will support such homeowners, despite the loss in tax revenue, because we recognize the importance of making our community more disaster-resistant and reducing the financial burden of repetitive flooding in our community.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Winter Storm	High	Medium	Engineer	FEMA HMA		1 year	Ongoing
22_03	Construct Flood Measure (e.g. floodwalls or small berms) along Deal Lake	Use minor structural projects that are smaller and more localized (e.g., floodwalls or small berms) along Deal Lake, which causes repetitive flooding in the Borough.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Medium	Borough Engineering	FEMA HMA		3 years	New

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Monmouth County Mitigation Action Worksheets

Community Action Number: 22 01

nterlaken, Borough of

Describing the Action

Action Name: Systematically Conduct Upgrades and Improvements to Sewer Systems, Stormwater Systems, and Outflow Pipes

Action Category: Maintenance/Response/Recovery

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Mitigation Reconstruction

Action Description: Over the course of several years, systematically make upgrades and improvements to sewer systems, storm water

management systems, and outflow pipes. These improvements will increase capacity, will reduce blockage, and

outflow pipes will be retrofitted with back/low valves.

Evaluating the Action

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

Goals: 2, 3, 5

Risk Reduction: Deal Lake continues to be a major source of flooding in the Borough. During severe storms, water drains into the

Lake but outfall design constraints prevent the water from making its way into the ocean before water overflows the banks and floods back into surrounding areas. Sedimentation and debris in Deal Lake and its tributaries impedes flood flows. Damage and losses due to flooding are also incurred in Interlaken as a result of drainage system shortcomings; the Borough's drainage system cannot efficiently accommodate today's stormwater runoff volumes and discharge this storm water efficiently to ocean waters. This combined with flooding from Deal Lake which can be

exacerbated.

Technical: The project is technically feasible.

Political: The public welcomes and supports this project as does the governing body.

Legal: The Borough has the legal authority to undertake this project.

Environmental: The project will improve environmental conditions by reducing flooding, regulating flow into bodies of water, and

preventing sewerage from entering natural resources.

Social: Improvements benefit all residents within the community equally.

Administrative Capability: The Borough is unable to undertake the project with its staff, an outside contractor will be used.

Local Champion: All residents of the Borough benefit from the project. The governing body is a strong supporter of improving the

location.

Other Community Objectives: Improves environmental quality in lakes and streams.

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$1,000,000.00

Priority: Medium

Scale of Ease of Implementation: Medium

Responsible Party: Borough Administrator overseeing engineering firm

Local Planning Mechanism: Codes, Engineering, Plans, Administrative Oversight

Likely Funding Source(s): Sewer Taxes/Local Budget

Timeline: 2 years
Action Status: Ongoing

Notes: Ongoing 2015 action; out to bid on automatic tidal valve. Problem with remaining projects in this action is the

funding; local budget is only sewer taxes and income from residential taxes, no commercial tax base. New water main in the boroughs by American Water. Looking at manhole project, which is about \$1 million to stop infiltration.

Monmouth County Mitigation Action Worksheets

Community Action Number: 22 02

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

Mitigation - Risk Reduction **Action Category:**

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Structure Elevation

Action Description: Elevation and/or acquisition of flood-prone residential structures, with particular focus on those in our community

> that are on FEMA's Repetitive Loss List and Severe Repetitive Loss List. New Jersey is committed to continuing the reduction of RL and SRL properties in the State; in turn, they have assigned a high priority to mitigating SRL and RL properties in the State Hazard Mitigation Plan. We are committed to supporting these projects as interested homeowners come forward and will support such homeowners, despite the loss in tax revenue, because we recognize the importance of making our community more disaster-resistant and reducing the financial burden of

repetitive flooding in our community.

Evaluating the Action

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

Goals: 2, 3, 5

Risk Reduction: Several residential structures throughout the community are prone to flooding, with their main floor elevations

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

events.

Technical: Elevation and acquisition are both technically feasible project types.

Political: Our political leadership supports this type of project.

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

Environmental: No environmental impacts are anticipated at this time; this would be confirmed as specific homeowners come

forward and their property details are reviewed. It is likely that environmental impacts would be positive, as

household hazardous wastes are no longer introduced into floodwaters.

No particular social group in our community is likely to be disproportionately impacted by this project; this would be

re-evaluated as particular interested homeowners come forward.

Administrative Capability: Our municipality has the administrative capabilities to manage an elevation and/or acquisition project.

Local Champion: affected homeowners, elected officials

Other Community Objectives: Improve and protect lifestyles of residents; reduction of costly property damage; resiliency; floodplain management;

capital improvements.

STAPLEE Evaluation: 12

Implementing the Action

Cost Estimate:

Social

Priority: High

Scale of Ease of Implementation: Medium

Responsible Party:

Local Planning Mechanism: Homeowners; Mayor; Council; Administrator; Engineer; local ordinance; Hazard Mitigation Plan

Likely Funding Source(s): **FEMA HMA**

Timeline: 1 year

Action Status: Ongoing

Notes: Ongoing 2015 action; two RL properties still need to be mitigated.

Monmouth County Mitigation Action Worksheets

Community Action Number: 22 03

Interlaken, Borough of

Describing the Action

Action Name: Construct Flood Measure (e.g. floodwalls or small berms) along Deal Lake

Action Category: Mitigation - Risk Reduction

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Localized Flood Risk Reduction Projects

Action Description: Use minor structural projects that are smaller and more localized (e.g., floodwalls or small berms) along Deal Lake,

which causes repetitive flooding in the Borough.

Evaluating the Action

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

Goals: 2, 3

Risk Reduction: Deal Lake collects runoff from several County municipalities in addition to backflow from the Ocean. During severe

rain events, properties along the Lake flood (two repetitive loss properties).

Technical: Technically feasible.

Political: No adverse political implications.

Legal: No legal impediments.

Environmental: Minor affects to the envioronment.

Social: Does not adversely affect any particular social group.

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

Local Champion: OEM

Other Community Objectives:

STAPLEE Evaluation: 10

Implementing the Action

Cost Estimate:

Priority: High

Scale of Ease of Implementation: Medium

Responsible Party: Borough Engineering

Likely Funding Source(s): Hazard Mitigation Plan

Eikely Funding Source(s): FEMA HMA

Timeline: 3 years

Action Status: New

Notes:

Name: Lori Reibrich	Title: Borough Administrator/Municipal Clerk
Jurisdiction: Interlaken 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	No	
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)		
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		
Natural hazard ordinance (stormwater, steep slope, wildfire)		
Flood Insurance Rate Maps		
Acquisition of Land for Open Space and Public Recreation Uses		
Post-Disaster Recovery Ordinance	No	
Real Estate Disclose Ordinance	Yes	



Other (ie. Special Purposes Ordinance)	Yes	Special Purposes Ordinance and Growth Management Ordinance					
How can the above capabilities be expanded and improved to reduce risk?							

Administrative & Technical

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

Administration	Yes/No	Describe capability Is coordination effective?
Planning Commission		
Mitigation Planning Committee		
Maintenance Programs to Reduce Risk (e.g., tree trimming, clearing drainage systems)		Shade Tree Commission: routine maintenance, tree inventory, planting
Mutual Aid Agreements		Shares Police w/ Deal & Loch Arbour Shares equipment w/ Deal & Loch Arbour Shares broadband & radio reporters w/ Deal & Loch Arbour Shares solid waste management w/ Allenhurst & Loch Arbour
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	No	
Emergency Manager	Yes	
Community Planner	No	



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



Financial

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

Funding Resource	Access / Eligibility (Yes/No)	Has the funding resource been used in the past and for what type of activities? Could the resource be used to fund future mitigation actions?			
Capital Improvements Project Funding	Yes				
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	No				
Other Federal Funding Programs	No				
State Funding Programs					
Other (e.g., withhold spending in hazard-prone areas)	Yes	Incur Debt through General Obligation Funds and Incur Debt through Special Tax and Revenue Bonds			
How can these capabilities be expanded and improved 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
Local Citizen Groups or Non- Profit Organizations Focused on Environmental Protection, Emergency Preparedness, Access and Functional Needs Populations, etc.		mitigation activities?
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 i	mproved to reduce risk?





Monmouth County Interlaker Borough

Building Classification
Industrial Commercial
Farm Vacant
Parcel Classification
Industrial Commercial

Industrial Commercial Apartment Residential (four families or less)

Farm Vacant Civic/Public (Tax Exempt) Unclassified

Apartment Residential (four families or less)

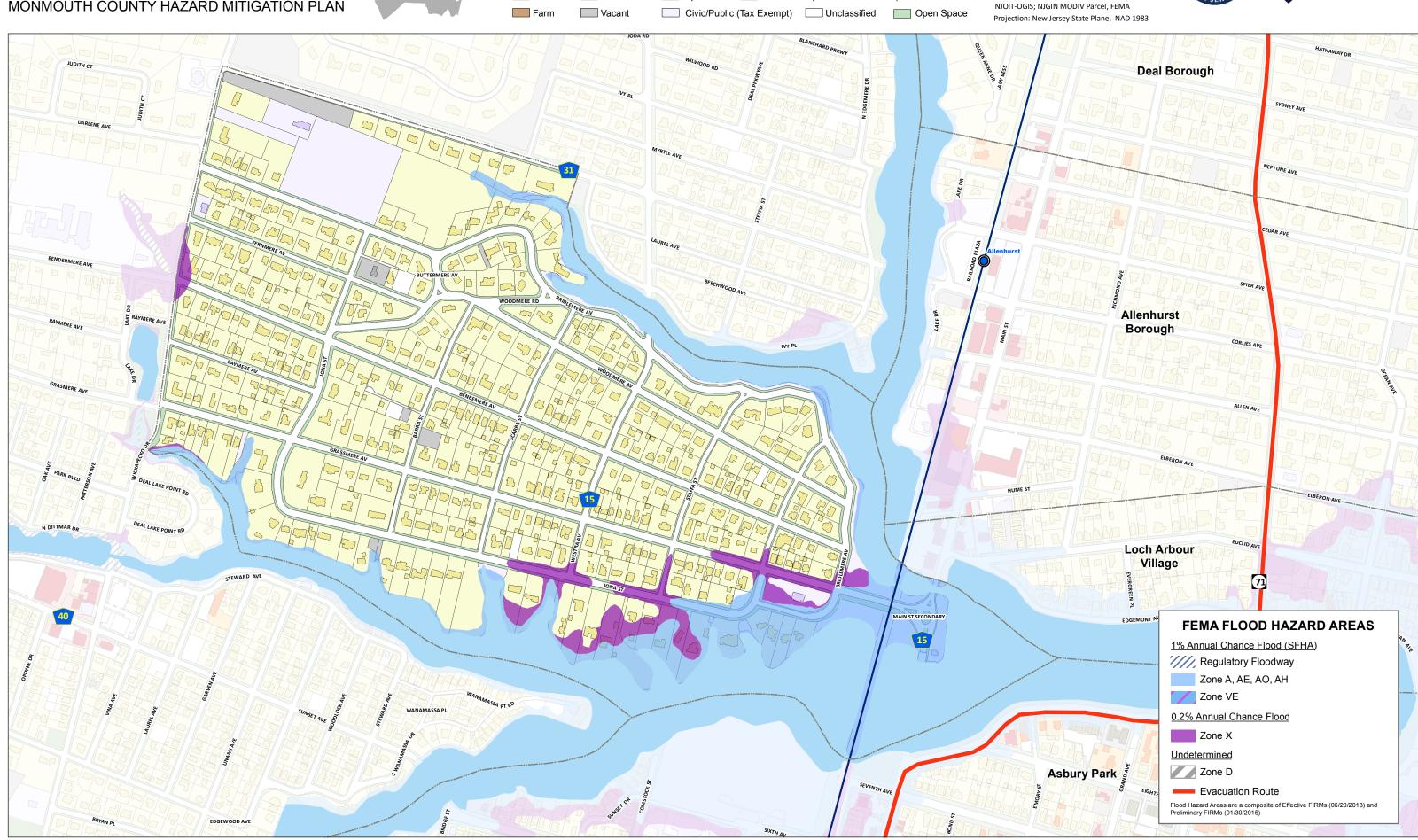
0 250 500 Feet

Source: 2014 Esri; Monmouth County;









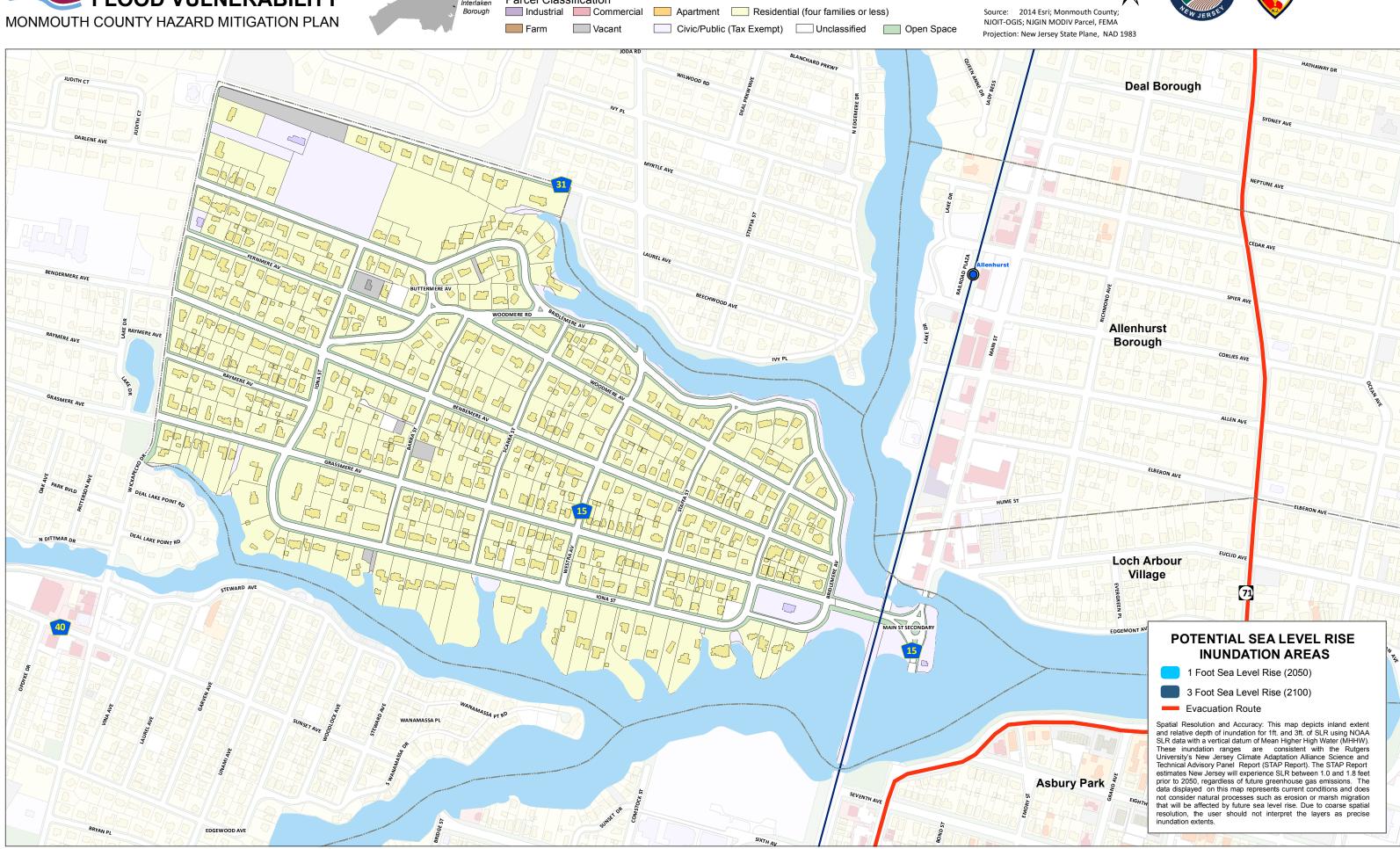
Building Classification Industrial Commercial Apartment Residential (four families or less) Vacant Parcel Classification

Civic/Public (Tax Exempt) Unclassified











Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update







MEETING NOTES

Topic: Deal and Loch Arbour and Interlaken- Monmouth County HMP Update Meeting

Date: June 12, 2019

Time: 11:00 AM- 12:00 PM

Location: Deal Borough Hall 190 Norwood Ave, Deal, NJ 07723

Attendees:

Stephen	Carasia	Borough Clerk/Administrator	Deal Borough
James	Foley	Superintendent of Beaches	Deal Borough
Matthew	Meriano	Engineer	LSA Inc.
Ronen	Neuman	Chief of Police	Deal Borough
Lori	Reibrich	Administrator/Clerk	Interlacken
Matthew	Sharin	OEM Coordinator	Deal Borough
Marilyn	Simons	Village Clerk	Loch Arbour

Drafted by: Paige

Introductions

Britney Intro

- Goals
- Hazards
- Packet:
 - Hazard Mitigation Introduction
 - Funding Available
 - What the state is prioritizing
 - Example mitigation actions

Mitigation Actions (2015)

<u>Deal:</u>

 Drainage Improvements at Norwood Ave & Alymar Ave → Ongoing 2015 action; getting close to funding stage. Norwood Ave.: \$700,000 for new pipes, design plan in process, clean swell, pipe to Ocean Ave, where pipe is larger, currently takes in Ocean Twp. & Deal's stormwater. Alymar Ave.: no design yet, culverts need to enlarge and expected to be \$1,600,000Cost benefit can't



Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update







get over 1; funding is a challenge.

- Seawall Around Sewerage Facility → Completed
- Elevation and/or Acquisition of Flood-prone Residential Structures → Ongoing 2015 action; there are two RL properties. One has been demolished and the second will hopefully be mitigated by action Community Action 11_01.

Loch Arbour:

- Drainage Improvements→ Ongoing 2015 action; in the process of going out to bid; funding ends September 2019.
- Deal Lake Stream Maintenance and Clearing → Ongoing 2015 action; there is a successful
 manufactured treatment device by the Asbury Park High School (west side of lake); Loch Arbour
 would like devices on their side of the lake. Biofilters are in the process of being built. The
 Borough would like wetlands near the lake to prevent pollution from stormwater runoff.
- Acquisition of Beach Club Proerty and Shoreline Protection→ Ongoing
- Automatic Tide Gate → Ongoing; same as action 27_01?

Interlaken:

- Improve Sewer and Stormwater Management Systems → Ongoing 2015 action; out to bid on automatic tidal valve. Problem with remaining projects in this action is the funding; local budget is only sewer taxes and income from residential taxes, no commercial tax base. New water main in the boroughs by American Water. Looking at manhole project, which is about \$1 million to stop infiltration.



Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update







Meeting: Deal/Loch Arbour/Interlaken HMP Date: 06-12-19

Initial	Last Name	First Name	Title	Organization	Email Address
20	CARASTA	STEPHEN	BURUUGH CLERK	DEAL	ADMINISTRATUR @ DEALBOROUGH. COM
MS	Sharin	matthew	Dep. OFM coosDinator	Deck Arbour Interkken	Mealpolice.org
W	NEUMAN	RONEN	CULTE OF POLICE	DEAL MARBOUR	, ,
Yel	Meriano	Matthew	Engineering Firm	Deal, Lach Arborr Interlaken	MMericuo Eleons evekicu. co
X	Reibrich	Lon	Administrator/ Clerk	Interlaken	Iveibrich@interlakenboro.cu
	Simms	MARILYN	Village Clerk	Loch Arbour	msimons@locharbour.us
1	Foley	James	Sipporntial de Branges	Deal	ifole 1@ Deal Borogh-com
BA	Ashman	Britian	Planner	MB	