

## 9.21: City of Port Republic – Jurisdictional Annex

### Summary of Hazards and Actions

Summary of Hazard Ranking and Actions, City of Port Republic			
Hazard	Hazard Ranking	# of Related Actions	Action #s
<b>Atmospheric Hazards</b>			
Extreme Temperatures	M	2	7, 8
Extreme Wind	M	2	7, 8
Hail	L	2	7, 8
Hurricane & Tropical Storm	H	7	1, 4, 5, 6, 7, 8, 10
Lightning	L	2	7, 8
Nor'easter	M	2	7, 8
Tornado	L	2	7, 8
Winter Storm	M	2	7, 8
<b>Hydrologic Hazards</b>			
Coastal Erosion	M	7	1, 4, 5, 6, 7, 8, 10
Sea Level Rise	H	3	7, 8, 10
Dam Failure	L	3	6, 7, 8
Levee Failure	N/A		
Drought	L	2	7, 8
Flood	H	8	1, 4, 5, 6, 7, 8, 10,
Tsunami	L	2	7, 8
Storm Surge	H	3	7, 8, 10
Wave Action	L	3	7, 8, 10
<b>Geologic Hazards</b>			
Earthquake	L	2	7, 8
<b>Other Natural Hazards</b>			
Wildfire	L	2	7, 8

# Mitigation Strategy for Risk Reduction

Overview of Municipal Mitigation Strategy, City of Port Republic				
Project Number	Project Description	Hazard(s) Addressed	Priority	Goals
1	Slope Protection at Mill Pond	Hurricane/tropical storm, Coastal erosion, Flood	H	3
4	Upgrade drainage by increasing the flow of capacity along areas that are inclusive of but not limited to Clarks Mill Stream and Moss Mill Stream drainage areas; may include increasing culvert sizes.	Hurricane/tropical storm, Coastal erosion, Flood	H	3
5	Implement protective measures for stone slope protection to prevent erosion along the east bank of Nacote Creek.	Hurricane/tropical storm, Coastal erosion, Flood	H	3
6	Update Mill Street Dam with automatic spillway	Hurricane/tropical storm, Coastal erosion, Flood	H	3
7	Fully participate in future 5-year updates of the Atlantic County Multi-Jurisdictional Hazard Mitigation Plan.	All	H	4
8	Work together with the County, State and local agencies to develop and implement an enhanced all hazard, public outreach, education, and mitigation information program on natural hazard risks and what they can do in the way of mitigation and preparedness, including flood insurance. Prepare and distribute surveys, provide information in mailings, use various media to distribute information, and develop/maintain page on City website dedicated to hazard mitigation.	All	H	1
10	The proposed action is to: (1) analyze the relevant issues as well as funding options to provide protection to natural areas like the Mullica River and Nacote Creek to the maximum extent possible, and (2) implement prioritized actions as funding becomes available.	Hurricane/tropical storm, Coastal erosion, Flood	H	3

More detailed information on these individual actions is presented at the end of this annex.

## Contact Information

City of Port Republic's Statement of Authority to Participate identified a Primary Point of Contact and an Alternate for this hazard mitigation plan update. These individuals represented the jurisdiction on the county-wide Core Planning Group and led a local team of Jurisdictional Assessment Team Members who undertook various local activities related to the plan update.

HAZARD MITIGATION PLAN POINTS OF CONTACT					
Primary Point of Contact			Alternate Point of Contact		
Name: Stanley Kozlowski Title: Emergency Management Coordinator Department: Emergency Management Address: 143 Main Street, Port Republic, NJ 08241 Phone Number: 609-652-1501 E-mail Address: stan@portrepublicnj.org			Name: Jacob Nass Title: Deputy Emergency Management Coordinator Department: Emergency Management Address: 142 Main Street, Port Republic, NJ 08241 Phone Number: 609-652-1501 E-mail Address: jake@portrepublicnj.org		
Jurisdictional Assessment Team Members					
<b>Please fill in the contact details for the person filling in this page:</b>					
Name:	Kimberely Campellone				
Title:	City Clerk				
Representing:	PORT REPUBLIC, CITY OF				
Email:	<a href="mailto:kim@portrepublicnj.org">kim@portrepublicnj.org</a>				
Phone:	609-652-1501				
Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate ? (Yes/No)
Land Use/Community Planner	consultant as needed	n/a	n/a	n/a	n/a
Emergency Manager	Scott Winnerberger	<a href="mailto:oem@portrepublicnj.org">oem@portrepublicnj.org</a>	609-839-3333	Jan. 2021	yes
Floodplain Manager/ Floodplain Administrator	Kevin Cain	<a href="mailto:kevin@portrepublicnj.org">kevin@portrepublicnj.org</a>	609-652-8759	Jan. 2021	yes
Public Works Director / City Engineer	Matt Doran, Engineer	<a href="mailto:mattdoransr@gmail.com">mattdoransr@gmail.com</a>	609-646-3111	Jan. 2021	yes
Building Code Official	Kevin Cain	<a href="mailto:kevin@portrepublicnj.org">kevin@portrepublicnj.org</a>	609-652-8759	Jan. 2021	yes
Fiscal/Budget Officer	Jenna Kelly	<a href="mailto:jenna@portrepublicnj.org">jenna@portrepublicnj.org</a>	609-652-1501	Jan. 2021	yes
Manager/Administrator	n/a	n/a	n/a	n/a	n/a
Elected Officials					
Other 1: Councilman	Roger Giberson	<a href="mailto:redwingcamp1@comcast.net">redwingcamp1@comcast.net</a>	609-381-1200	Jan. 2021	yes
Other 2: Councilman	Stan Kozlowski	<a href="mailto:stan@portrepublicnj.org">stan@portrepublicnj.org</a>	609-513-2706	Jan. 2021	yes
Other 3: Councilman	Jake Nass	<a href="mailto:jake@portrepublicnj.org">jake@portrepublicnj.org</a>	609-652-1501	Jan. 2021	yes

City of Port Republic has reported undertaking the following internal activities in preparation of its mitigation plan:

Subject of JAT Activity (Meeting Notice, Emails, Etc.)	Date	INVOLVED PARTIES - Place an 'x' for any position title that participated										
		Mayor/ Supervisor	Administrator	Clerk	Engineer	Attorney	Building Code Official	Emergency Manager	Fiscal/Budget Officer	Floodplain Manager	Planner	Public Works Director
Informational meeting with Anna Foley	06/15/21	X		X								
Meeting with Planning Board secretary for fact finding	07/13/21			X								
JAT Meeting	07/13/21	X	2 Council Members		X							X
City Council Meeting	07/13/21	X		X								
Status update meeting	07/21/21	X		X								
Information inquiry	07/21/21									X		
Information inquiry/verification	07/23/21							X				
Verification of information	07/26/21						X					
Verification of information	08/04/21			X								
Planning Board Meeting	08/09/21	X					X					
City Council Meeting	08/10/21	X		X								
Community Day	08/21/21	X		X								

## Governing Body Format

The governing body is comprised of a mayor and a city council who are chosen in partisan elections held as part of the November general election. The mayor serves a four-year term of office, and is responsible for administrative functions and appointment of all officials. The City Council is comprised of seven members, with one member elected at-large to a four-year term in office and six who are elected from wards to three-year terms on a staggered basis with two seats up for election each year. The council functions as a legislative body, passing ordinances and approving the appointments of the mayor.

## Land Use and Development Trends

An evaluation of growth and development trends was undertaken by each participating jurisdiction as part of the development of the initial plan in 2010, and the last update in 2016. As part of this second plan update, City of Port Republic reviewed and updated its prior feedback to reflect current conditions as of mid-2021. City of Port Republic reported no major planned development in their jurisdiction.



### Atlantic County Multi-Jurisdictional Hazard Mitigation Plan Update *Worksheet #3 – Growth and Development Trends Update*

Performing an assessment of Growth and Development Trends is one step of a FEMA-approved hazard mitigation plan update. This look into the future is important because development in hazard areas could put more assets at risk and, in turn, could work to increase potential disaster-related damages at a time when the mitigation plan's purpose is to reduce the potential for damages emanating from natural disasters. Growth/development trends are based on the construction of new buildings, demolition of old buildings, or the planning, zoning or subdivision of new areas for development. A stagnant or decreasing population alone is not reason for stating that no development has occurred, unless backed up by a lack of development.

An evaluation of growth/development trends was undertaken by each participating jurisdiction as part of the development of the 2016 plan. Your municipality's prior response from 2016 is included on the next page in Part 1. Please review your community's prior feedback and identify any changes that have occurred since that time so the most current information can be reflected in this 2021 plan update. In addition, please provide responses for Part 2.

Information for the 2016 plan was provided to us by: Gina Simon, CFO

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Your Name: ~~Kim Campellona~~

Title: City Clerk

Community: Port Republic

Email and Phone: [kim@portrepublicnj.org](mailto:kim@portrepublicnj.org) 609-652-1501

Part 1 – Please update your response from 2016 to reflect current conditions in the community.

Community	<p>1. Land Uses and Development Trends in Hazard Areas as Reported in the 2016 Plan. Please describe development trends occurring within your jurisdiction, such as the predominant types of development occurring, location, expected intensity, and pace by land use. While details are preferred, it is ok if your feedback is qualitative and quite general, such as "high-occupancy, high-density residential development is occurring near the waterfront".</p>	<p>1a. Please update your response to reflect conditions in 2021</p>	<p>Regulations/Codes/Ordinances To Protect New Development From Natural Hazards as Reported in the 2016 Plan. Does your jurisdiction enforce regulations/ordinances/codes to protect new development from the effects of natural hazards? (Some examples might be floodplain management ordinances enforcing FEMA's NFIP for new development or substantial improvements in the floodplain; steep slope ordinances for community's which may have landslide hazards; earthquake resistant design criteria and/or high wind design criteria; or buffer zones in wildfire hazard areas.) If so, please describe.</p>	<p>2a. Please update your response to reflect conditions in 2021</p>
<p>Port Republic, City of</p>	<p>Port Republic is predominantly a <u>single family</u> community with limited commercial properties. The predominant development that has occurred and is presently occurring is <u>low density single family</u> development.</p> <p>Port Republic is a rural community that is connected to and influenced by the Mullica River. The City has a small Historic District located between Route 624 and Route 575. Much of the City is tidally influenced wetlands and marshland and not developable. In <u>addition</u> a large percentage of the City is permanently preserved open space. Future development is likely to occur as infill development <u>in close proximity</u> to existing developed portions of the City along the major roadways.</p>	<p>Conditions remain the same. Port Republic has limited property that is suitable for building due to the presents of wetlands and marshland with no access to sewerage.</p>	<p>Port Republic enforces the FEMA regulations and flood plain management measures at the time a property obtains a building permit. Also, the City utilizes the International Building Code for all building permit requests which sets the rules for all design standards for wind, soil, structural, electrical, etc.</p> <p>Community has reviewed their feedback from the 2009 Land Uses and Development Trends assessment and has certified that all information previously provided is still current.</p>	

## National Flood Insurance Program Summary

City of Port Republic has participated in FEMA's National Flood Insurance program (NFIP) since 1983.

National Flood Insurance Program Data City of Port Republic	
Total number of policies <sup>1</sup>	33
Insurance in force <sup>2</sup>	\$9,242,000
Total number of losses during NFIP participation	74
Total claims paid during NFIP participation	\$1,844,892
Non-Mitigated Repetitive Loss Properties	6*
Non-Mitigated Severe Repetitive Loss Properties	2*

\*According to data provided by FEMA NFIP, July 2021. JAT representatives report that all RL/SRL properties in Port Republic have been mitigated with the completion of Mitigation Action #12.

Port Republic does not participate in the NFIP's Community Rating System.

Port Republic provided the following NFIP Administrator Input in 2021, for inclusion in the 2022 Plan.

<sup>1</sup> Policies in Force from www.fema.gov NFIP Insurance Report, data current as of 06/03/21.

<sup>2</sup> Insurance in Force from www.fema.gov NFIP Insurance Report, data current as of 06/03/21

Name: Kevin Cain

Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Community: City of Port Republic

Email and Phone: [kevin@portrepublicnj.org](mailto:kevin@portrepublicnj.org) 609-652-8759



**Atlantic County Multi-Jurisdictional Hazard Mitigation Plan Update - *Worksheet #2 - NFIP***

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP <sup>1</sup>	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)		Is this person <u>is</u> a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Is your community in good standing with the NFIP?	
3/2/1988	7/5/1983	Construction Official/Zoning Officer		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability, etc.):							
Official <del>has an understanding of</del> FEMA regulations and different flood zone requirements. Official follows regulations established in the rebuilding of homes affected by Superstorm Sandy							
Describe barriers to running an effective NFIP program in the community (if applicable):							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
Nov 2012	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No * Class <u>    </u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):							
Name: <u>Kevin Cain</u>		Title: <u>Floodplain Manager/Floodplain Administrator/NFIP Coordinator</u>					



Representing: City of Port Republic

Email and Phone [kevin@portrepublicnj.org](mailto:kevin@portrepublicnj.org) 609-652-8759

**Provide an explanation of your local floodplain permitting process:**

Permits are reviewed to ensure they comply with the flood plain ordinance.

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates?	Does your community intend to initiate/continue the buyouts of repetitive loss properties?	Does your community intend to commit staff or resources to improve local mapping or code administration in the future?	Does your community intend to provide local outreach to promote the sale of flood insurance?	Does your community intend to participate in RiskMAP meetings and planning initiatives?	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.?	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding?	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events?	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations?		As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan?		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update?		Have there been any changes to your community's local floodplain management program since the last version of the plan?		
<input type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes * <input type="checkbox"/> No		
* If you answered "yes", that there have been changes to your local program since the last version of the plan, please describe:								
Ordinance 03-2013 passed 5/14/13 amending Chapter 139 Flood Plain Prevention of the City's code book.								
<b>Provide a description of your community assistance and monitoring activities:</b>								
Assistance is provided through meetings and phone calls. All construction is monitored in the floodplain areas as per City Ordinance 03-2013 ensuring that the construction aligns with what was permitted and that non-permitted activities are not taking place.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement?					NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest <u>FIRM3</u> . Will your community continue to commit to this program requirement?			
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

## Critical Facilities in Delineated Hazard Areas

Note that all assets and facilities in the City of Port Republic are considered to be at risk from County-wide hazards: Hurricane/Tropical Storm, Nor' easter, Extreme Wind, Tornado, Winter Weather, Lightning, Extreme Temperatures and Earthquake.

Facility Name	Location	Facility Type	Flood, A Zone	Flood, V Zone (Wave)	Category 1-4 Storm Surge	Coastal Erosion	Sea Level Rise, 1 Ft	Sea Level Rise, 3 Ft	Dam Failure	Low to Moderate Wildfire	High to Extreme Wildfire
<b>City of Port Republic</b>											
Port Republic Emergency Management	143 Main St	Emergency Operations Center	1	0	1	0	0	0	0	1	0
Port Republic Vol. Fire Co. #1	116 Blakes Lane	Fire Station	0	0	1	0	0	0	0	0	0
City Hall	143 Main Street	Public Works	1	0	1	0	0	0	0	1	0
Port Republic Yard	WrangleBoro Road	Public Works	0	0	0	0	0	0	0	0	0
Port Republic School	Pomona Avenue	School	0	0	1	0	0	0	0	0	0
<b>Total</b>			<b>2</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>

## Summary of Estimated Potential Losses from Hazards

Estimated annual losses provided in this section are based on best available data, and the methodologies applied result in an approximation of risk. Loss estimates should be used to understand relative risk from hazards.

Uncertainties are inherent in any loss estimation methodology, arising in part from incomplete scientific knowledge concerning natural hazards and their effects on the built environment. Uncertainties also result from approximations and simplifications that are necessary for a comprehensive analysis (i.e., incomplete inventories, demographics or economic parameters).

It is important to note that this table reflects estimates of average annual damages. For any hazard, individual event damages could be substantially (orders of magnitude) higher.

Only hazards for which annual losses were quantified and presented in Section 3C are included in this table.

Summary of Estimated Potential Losses From Hazards		
City of Port Republic		
Quantified Hazard	Annualized Loss	Annual Loss Ratio
Extreme Wind	\$29,000	0.033%
Hurricane and Tropical Storm	\$124,000	0.060%
Lightning	\$200	0.000%
Tornado	\$100	0.000%
Drought*	\$15,000	5.000%
Winter Storm	\$800	0.001%
Coastal Erosion	\$0	0.000%
Flooding (Riverine)	\$0	0.000%
Storm Surge (Coastal Flooding)	\$570,000	0.290%
Earthquake	\$2,000	0.001%

\*Derived from crop values

## Outreach to the Public and Other Stakeholders

As part of this 2022 Plan Update, City of Port Republic undertook various activities to: (a) alert the public and other stakeholders to the fact that the HMP Planning Committee was working to develop the update; and (b) provide the public and other stakeholders with a forum to ask questions and submit comments and suggestions on the process. Outreach activities undertaken by City of Port Republic included those listed below. Comments arising from outreach activities are presented on the following page.

Outreach Activities			
Date of Activity	Type of Activity	Activity Details	Lead Department and/or Staff Title who Undertook Activity
Ongoing	Website Announcement	Announcement of HMP and seeking public input	Kim Campellone, City Clerk
Ongoing	Facebook posting	Announcement of HMP and seeking public input	Kim Campellone, City Clerk
7/13/21	City Council Meeting	Announcement of HMP and seeking public input	Mayor Stanley Kozlowsk & Kim Campellone, City Clerk
7/22/2021	Stake Holder Mailing	Informational letter and invitation to attend City Council and Planning Board meetings regarding HMP	Vicki Cantell, Planning Board Secretary
7/31/21	Newspaper Advertisement	Advertisement of HMP and seeking public input	Kim Campellone, City Clerk
8/9/2021	Planning Board Meeting	HMP discussion and seeking public input	Vicki Cantell, Planning Board Secretary
8/10/2021	City Council Meeting	HMP discussion and seeking public input	Mayor Stanley Kozlowsk & Kim Campellone, City Clerk
8/21/2021	Community Day	Public Outreach	Kim Campellone, City Clerk

Comments Log									
#	Comment	Comment Submitted By	Comment Submitted To	Comment Submitted on Date	How was comment submitted?	Disposition (Concur; non-concur; will evaluate)	Response / Action Proposed	Responsible Party	Action taken
1	I can't think of anything the administration missed. They have included everything I am concerned with.	Bob Haviland	Planning Board	08/08/21	Verbally	Concur	Thanked for his comment	PB Chairman	None
2	Sounds like the city is doing a good job	Bob Adams	Planning Board	08/08/21	Verbally	Concur	Thanked for his comment	PB Chairman	None
3	Agree with the city's concerns and solutions	General public (3)	City Council	08/09/21	Verbally	Concur	Thanked for their comments	Mayor	None

## Capability Assessment

This section describes the following capabilities of City of Port Republic:

- Legal and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Community resiliency
- Community political capability

As part of the 2022 Plan update, each participating jurisdiction reevaluated the capabilities they had provided for the 2016 Plan, and sent updates to the consultant for incorporation into this plan section. City of Port Republic has reviewed its responses from the 2016 Plan and has updated its prior feedback to reflect present-day conditions.

Legal and Regulatory Capability	
Regulatory Tools (Codes, Ordinances, Plans)	Do you have this?
Building Code	Y
Zoning Ordinance	Y
Subdivision Ordinance	Y
Special Purposes Ordinance	N
Growth Management Ordinance	N
Site Plan Review Requirements	Y
Comprehensive Plan	Y
Capital Improvements Plan	Y
Economic Development Plan	N
Emergency Response Plan	Y
Post-Disaster Recovery Plan	Y
Post-Disaster Recovery Ordinance	N
Real Estate Disclosure Ordinance	N
Evacuation Plan	Y

<b>Administrative and Technical Capability</b>	
<b>Regulatory Tools (Codes, Ordinances, Plans)</b>	<b>Do you have this?</b>
Planner(s) with knowledge of land development and management practices	Y
Engineer(s) with knowledge of land development and management practices	Y
Planner(s) or engineer(s) with knowledge of land development and management practices	Y
Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Y
Planner(s) or engineer(s) with an understanding of natural and/or human caused hazards	Y
Floodplain manager	Y
Surveyors	Y
Staff with education or expertise to assess the community's vulnerability to hazards	Y
Personnel skilled in GIS and/or HAZUS	Y
Scientists familiar with the hazards of the community	N
Emergency Manager	Y
Code Enforcement Official	Y
Public Works or Highway Superintendent	Y
Emergency Management Coordinator	Y

<b>Fiscal Capability</b>	
<b>Financial Resources</b>	<b>Accessible or Eligible to use</b>
Community Development Block Grants (CDBG)	Y
Capital Improvements Project Funding	Y
Authority to Levy Taxes for Specific Purposes	Y
Fees for Water, Sewer, Gas, or Electric Service	N
Impact Fees for Homebuyers or Developers for New Developments/Homes	N
Incur Debt through General Obligation Funds	Y
Incur Debt through Special Tax and Revenue Bonds	Y
Incur Debt through Private Activity Bonds	N
Withhold Spending in Hazard-Prone Areas	N
Other (i.e., coastal, sustainability, or climate change initiatives; or Brownfield funds)	N

<p>Would you classify your community's <b>legal and regulatory</b> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <b>technical</b> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <b>fiscal</b> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall <b>administrative</b> capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</p>
M	M	M	M	M
<p>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</p>				
<p>Opportunities that could bridge recognized gaps in capabilities to ensure that they are in-line with jurisdictional mitigation actions and goals include assessment of actions and goals on an ongoing basis in order to keep the hazard mitigation plan updated. This includes updating ordinances and plans as well as seeking grant funding.</p>				

## Plan Integration

It is the intention of City of Port Republic to incorporate mitigation planning as an integral component of daily municipal operations. The balance of this subsection describes local accomplishments over the last planning cycle (2016-2021), and targeted activities for the next planning cycle (2022-2027), as reported by the City's CPG member and shared with the consultant for incorporation here.

Demonstration of Progress over the Last Planning Cycle (2016-2021) – City of Port Republic undertook the following plan integration mechanisms over the last planning cycle:

*The City has instituted a storm drain inspection plan and maintenance program to be carried out at regular intervals and prior to and after any anticipated storms.*

*The City has updated its Emergency Management Plan to include risk assessment and hazard area awareness.*

*All proposed construction is reviewed by the Building Official and/or Planning Board to ensure compliance with any and all hazard mitigation required or deemed necessary for the appropriate zone.*

Targeted Plan Integration Activities for the Next Planning Cycle (2022-2027) – City of Port Republic plans to implement the following plan integration mechanisms into local government operations from this point forward through the next planning cycle:

*The City believes that with recent updates they have covered all anticipated conditions now present. We will continue to review and update any additions or changes as the needed.*

## **Mitigation Strategy**

This subsection sets forth the mitigation strategy for City of Port Republic. It describes, in the following order:

- Progress on 2016 Plan Actions
- Hazard Mitigation Accomplishments
- Proposed 2022 Plan Mitigation Actions
- Action Worksheets

### **Progress on 2016 Plan Actions**

The following table was completed by the City of Port Republic JAT Committee Members. It summarizes the progress that was made on the local hazard mitigation initiatives that were set forth in the last version of the plan in 2016.

The City of Port Republic has identified no major changes in priorities since the last version of the plan.

PROGRESS ON 2016 HAZARD MITIGATION PLAN INITIATIVES												
2016 Plan Initiative Number	Mitigation Initiative Description	2016 Plan Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated	No Longer Relevant - Omit from Updated	
1	Slope Protection at Mill Pond	High	Hurricane and tropical storms, erosion, flooding	City administration				X	Funding not yet obtained	X		The strategy has not changed.
2	Installation of a stone jetty/bulkhead at bathing beach area	High	Hurricane and tropical storms, erosion, flooding	Gary Giberson, Emergency Management Coordinator	X						X	
3	Installation of generators at designated critical facilities which include City Hall and Fire Department	High	All	Gary Giberson, Emergency Management Coordinator	X						X	
4	Upgrade drainage by increasing the flow of capacity along areas that are inclusive of but not limited to Clarks Mill Stream and Moss Mill Stream drainage areas; may include increasing culvert sizes.	High	Hurricane and tropical storms, flooding	City administration, OEM, Engineer			X		Seeking funding	X		The strategy has not changed.
5	Implement protective measures for stone slope protection to prevent erosion along the east bank of Nacote Creek.	High	Hurricane and tropical storms, erosion, flooding	City administration			X		Seeking funding	X		The strategy has not changed.
6	Update Mill Street Dam with automatic spillway	High	Hurricane and tropical storms, flooding, dam failure	City administration, OEM, Engineer		X			Seeking funding	X		The strategy has not changed. The need to upgrade still remains.
7	Fully participate in future 5-year updates of the Atlantic County Multi-Jurisdictional Hazard Mitigation Plan and provide appropriate letters of intent to Atlantic County Office of Emergency Management	High	All	City administration, OEM			X			X		
8	Work together with the County, State and local agencies to develop and implement an enhanced all hazard, public outreach, education, and mitigation information program on natural hazard risks and what they can do in the way of	High	All	City administration, OEM, Engineer, DPW			X			X		

PROGRESS ON 2016 HAZARD MITIGATION PLAN INITIATIVES												
2016 Plan Initiative Number	Mitigation Initiative Description	2016 Plan Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated	No Longer Relevant - Omit from Updated	
	mitigation and preparedness, including flood insurance. Prepare and distribute surveys, provide information in mailings, use various media to distribute information, and develop/maintain page on City website dedicated to hazard mitigation.											
9	Work together with the County, State and local agencies to provide an ongoing public education and outreach program on various preparedness and mitigation topics including the proper installation and/or use of backup power.	High	All	City administration	X		X				X	
10	The proposed action is to: (1) analyze the relevant issues as well as funding options to provide protection to natural areas like the Mullica River and Nacote Creek to the maximum extent possible, and (2) implement prioritized actions as funding becomes available.	High	Hurricane and tropical storms, erosion, flooding, storm surge, wave action	City Administration				X	Exploring possible options for such large areas	X		The strategy has not changed.
11	Draft, adopt and implement regulations that require one foot of freeboard to all new homes, additions and substantially damaged structures within areas effected by flood regulations/FEMA maps.	High	Hurricane and tropical storm, flooding, storm surge, wave action	City Administration	X						X	
12	Mitigate vulnerable structures via retrofit (e.g. elevation, flood-proofing) or acquisition/relocation to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority when applicable. Implement mitigation of the prioritized properties as funding becomes available.	High	All	City Administration	X						X	

## Hazard Mitigation Accomplishments (2016-2021)

The State of New Jersey 2019 HMP (Section 3, Page 3-30) requires identification of mitigation activities as an essential element of a local plan review. Information on the status of long-range mitigation strategies shall be contained in the original plan. Self-funded mitigation initiatives as well as past FEMA funded projects should be documented. The following table summarizes past mitigation accomplishments in City of Port Republic since the last version of the plan was adopted in 2016.

Past Mitigation Accomplishments				
Project	Status		Funding Source	Relationship to Plan
	Approved/Active Year	Completed Year		
Installation of bulkhead at bathing beach area		2011	\$55,957.88 FEMA \$32,000 NJDEP \$36,287.14 NJDEP Loan	Action Worksheet #2
Generators	2009	2010	City Funded \$12,398.00	Action Worksheet #3
Require 1 foot of freeboard	2014	2017	None required	Action Worksheet #11
Elevate vulnerable structures (including 6 RL properties)	2014	2017	Individual Property Owner FEMA Grants	Action Worksheet #12

## Proposed 2022 Plan Mitigation Actions

The process for selection and prioritization of mitigation actions is described in greater detail in Section 6 of the main text. The outcomes of that overall process are summarized here.

This plan proposes the actions determined to be the most appropriate for the resources and capabilities of City of Port Republic based on the experience of local officials, with input from the public and other stakeholders. Potential actions were reviewed relative to potential financial as well as administrative and legal costs and the degree to which they would be endorsed by the public. Potential actions were reviewed during the meetings relative to their potential benefit of effectiveness in saving lives, protecting the natural environment, and reducing disruption and damage. Actions selected by each jurisdiction include activities to protect existing and future structures and infrastructure and enhance community resilience.

Part of enhancing community resilience involves adapting to a changing climate. This plan's risk assessment includes information on climate change as part of the hazard vulnerability analysis and contain strategies/projects to address increased vulnerability that may result from climate change. By developing mitigating strategies and/or projects for hazards that are exacerbated by climate change, jurisdictions will better protect residents, avoid, or reduce damage to property and public infrastructure, and reduce personal hardship. Previous sections of this plan have presented information on how climate change may affect jurisdictional vulnerability or increased frequency of occurrence and/or severity in exposure to the identified hazards. Climate change is addressed by mitigating the various hazards that it exacerbates. City of Port Republic has proposed a range of hazard mitigation initiatives to address their highest hazards including those hazards that are exacerbated by a changing climate.

Action priorities were determined by a qualitative prioritization process. A higher priority was assigned to projects where: the life/safety risk of taking no action was deemed to be unacceptably high; the project addresses one of the community's highest hazards and/or key risks; benefits were projected to equal or exceed project costs; critical facilities or key local assets were being protected; funding and staff resources were deemed to be sufficient and/or accessible for project implementation; the project is technically feasible and the community determined their legal authority to implement the action; negative environmental and/or social impacts were not identified during the assessment, or were very minimal; and/or where there was overall support for the project from the local community (government officials, public, and stakeholders).

Detailed Action Worksheets for each action item in the strategy are presented in the following pages.

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>City of Port Republic</i>
<b>Community action number</b>	<i>1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Hurricane and tropical storms, erosion, flooding</i>
<b>Risk finding</b>	<i>Erosion impacts tidal waters of Nacote Creek</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Natural Resource Protection</i>
<b>Action type</b>	<i>Stabilize erosion hazard areas</i>
<b>Action description</b>	<i>Slope Protection at Mill Pond</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Erosion impacts tidal waters of Nacote Creek. Slope protection would reduce erosion. Losses avoided are unquantifiable but are expected to be in excess of project costs.</i>
<b>Cost estimate</b>	<i>&gt;\$100,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits reduced erosion in excess of project costs.</i>
<b>Technical</b>	<i>Technically Feasible</i>
<b>Political</b>	<i>No known opposition</i>
<b>Legal</b>	<i>No known legal issues</i>
<b>Environmental</b>	<i>No adverse environmental impact</i>
<b>Social</b>	<i>Does not adversely affect any particular social group</i>
<b>Administrative capability</b>	<i>City engineer, public works</i>
<b>Local champion</b>	
<b>Other community objectives</b>	<i>Supports environmental quality</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Plans</i>
<b>Responsible party</b>	<i>City Administration</i>
<b>Potential funding sources</b>	<i>grants, local budget, staff</i>
<b>Time line</b>	<i>1-5 years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Ongoing.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>City of Port Republic</i>
<b>Community action number</b>	<i>4</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Hurricane and tropical storms, flooding</i>
<b>Risk finding</b>	<i>Flow capacity of local streams and culverts are often exceeded, resulting in flooding of property during severe storms.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure and infrastructure projects</i>
<b>Action type</b>	<i>Improve drainage system capacity</i>
<b>Action description</b>	<i>Upgrade drainage by increasing the flow of capacity along areas that are inclusive of but not limited to Clarks Mill Stream and Moss Mill Stream drainage areas; may include increasing culvert sizes.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Drainage improvements and reduced risk of exposure to property. Losses avoided are unquantifiable but are expected to be in excess of project costs.</i>
<b>Cost estimate</b>	<i>\$10,000 to \$100,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits reduced erosion in excess of project costs.</i>
<b>Technical</b>	<i>Technically Feasible</i>
<b>Political</b>	<i>No known opposition</i>
<b>Legal</b>	<i>No known legal issues</i>
<b>Environmental</b>	<i>No adverse environmental impact</i>
<b>Social</b>	<i>Does not adversely affect any particular social group</i>
<b>Administrative capability</b>	<i>City administration, public works</i>
<b>Local champion</b>	
<b>Other community objectives</b>	<i>Supports environmental quality</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Plans</i>
<b>Responsible party</b>	<i>Scott Winnerberger, Emergency Management Coordinator</i>
<b>Potential funding sources</b>	<i>municipal budget</i>
<b>Time line</b>	<i>1-5 years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Working on obtaining funding.</i>

## Action Worksheet

<b>Your plan name</b>	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>City of Port Republic</i>
<b>Community action number</b>	5
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Hurricane and tropical storms, erosion, flooding</i>
<b>Risk finding</b>	<i>Erosion on the east bank of Nacote Creek</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Natural Resource Protection</i>
<b>Action type</b>	<i>Stabilize erosion hazard areas</i>
<b>Action description</b>	<i>Implement protective measures for stone slope protection to prevent erosion along the east bank of Nacote Creek.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Erosion impacts the east bank of Nacote Creek. Losses avoided are unquantifiable but are expected to be in excess of project costs.</i>
<b>Cost estimate</b>	<i>\$10,000 to \$100,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>This project is likely to be cost effective, with benefits reduced erosion in excess of project costs.</i>
<b>Technical</b>	<i>Technically Feasible</i>
<b>Political</b>	<i>No known opposition</i>
<b>Legal</b>	<i>No known legal issues</i>
<b>Environmental</b>	<i>No adverse environmental impact</i>
<b>Social</b>	<i>Does not adversely affect any particular social group</i>
<b>Administrative capability</b>	<i>City Administration, City engineer, public works</i>
<b>Local champion</b>	
<b>Other community objectives</b>	<i>Supports environmental quality</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Plans</i>
<b>Responsible party</b>	<i>City Administration</i>
<b>Potential funding sources</b>	<i>local budget</i>
<b>Time line</b>	<i>1-5 years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Ongoing. Working on obtaining funding.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>City of Port Republic</i>
<b>Community action number</b>	6
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Hurricane and tropical storms, flooding, dam failure</i>
<b>Risk finding</b>	<i>Upgrade/replace outdated Mill Street Dam. Extensive forest clearing and development within the surrounding areas has significantly increased which has resulted in an increase of surface water run-off. The Mill Street Dam in its current condition is not adequate enough to accept the increased and future increases for storm water discharge into tidal waters. The lack of structural integrity/failure would impact homes along both sides of the Mill Street Dam.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural Project</i>
<b>Action type</b>	<i>Dam improvements</i>
<b>Action description</b>	<i>Update Mill Street Dam with automatic spillway</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Reduce the potential of flooding in the area. Reduced risk of exposure to property losses avoided are unquantifiable but are expected to be in excess of project costs.</i>
<b>Cost estimate</b>	<i>&gt;\$100,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Reduced risk of exposure to property. This project is likely to be cost effective, with benefits reduced erosion in excess of project costs.</i>
<b>Technical</b>	<i>Technically Feasible</i>
<b>Political</b>	<i>No known opposition</i>
<b>Legal</b>	<i>No known legal issues</i>
<b>Environmental</b>	<i>No adverse environmental impact</i>
<b>Social</b>	<i>Does not adversely affect any particular social group</i>
<b>Administrative capability</b>	<i>City Administration, City engineer</i>
<b>Local champion</b>	
<b>Other community objectives</b>	<i>Supports environmental quality</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Plans</i>
<b>Responsible party</b>	<i>Scott Winnerberger, Emergency Management Coordinator</i>
<b>Potential funding sources</b>	<i>when grant become available</i>
<b>Time line</b>	<i>1-5 years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Ongoing. Working on obtaining funding.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>City of Port Republic</i>
<b>Community action number</b>	7
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All</i>
<b>Risk finding</b>	<i>Did not participate in initial County plan. Consequences of not being able to apply for mitigation funding. Now partipating.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Planning &amp; Regulatory Solutions</i>
<b>Action type</b>	<i>Hazard Mitigation Planning</i>
<b>Action description</b>	<i>Fully participate in future 5-year updates of the Atlantic County Multi-Jurisdictional Hazard Mitigation Plan.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing and future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Avoid not being able to apply for mitigation funding, allow City to identify hazards and steps to mitigate them. Economies of scale participating in a multi-jurisdictional plan</i>
<b>Cost estimate</b>	<i>Low&lt;\$1,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Benefits outweigh minor costs. Is a low cost action that can be easily implemented.</i>
<b>Technical</b>	<i>Technically feasible. City recently completed plan with 3 other munis which wil be incorporated into this plan.</i>
<b>Political</b>	<i>No apparent political issues.</i>
<b>Legal</b>	<i>Action is legal and similar work recently completed for 4 muni plan.</i>
<b>Environmental</b>	<i>No environmental impacts.</i>
<b>Social</b>	<i>Does not adversely affect any social group.</i>
<b>Administrative capability</b>	<i>Administrative tasks to be mostly handled by City's Chief Financial Officer.</i>
<b>Local champion</b>	<i>City administration</i>
<b>Other community objectives</b>	<i>Ability to apply for grants.</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>N/A</i>
<b>Responsible party</b>	<i>City administration, OEM</i>
<b>Potential funding sources</b>	<i>local budget, HMGP</i>
<b>Time line</b>	<i>1 Year</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Currently ongoing</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>City of Port Republic</i>
<b>Community action number</b>	8
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All hazards identified in HMP</i>
<b>Risk finding</b>	<i>Public understanding of hazard mitigation and its benefits are limited</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Education and Awareness Programs</i>
<b>Action type</b>	<i>Multi-hazard education and risk awareness</i>
<b>Action description</b>	<i>Work together with the County, State and local agencies to develop and implement an enhanced all hazard, public outreach, education, and mitigation information program on natural hazard risks and what they can do in the way of mitigation and preparedness, including flood insurance. Prepare and distribute surveys, provide information in mailings, use various media to distribute information, and develop/maintain page on City website dedicated to hazard mitigation.</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Public awareness will build support for mitigation, encourage homeowners to create a demand for better construction practices and reduce avoidable injuries and emergencies</i>
<b>Cost estimate</b>	<i>Low &lt; \$1,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Benefits outweigh minor costs. This is a low cost action that can be easily implemented.</i>
<b>Technical</b>	<i>Technically feasible. Building public awareness has proven to reduce risk.</i>
<b>Political</b>	<i>No apparent political issues.</i>
<b>Legal</b>	<i>Action is legal and educational efforts have been previously used for messages on public safety and welfare.</i>
<b>Environmental</b>	<i>No adverse environmental impacts.</i>
<b>Social</b>	<i>Does not adversely affect any social group.</i>
<b>Administrative capability</b>	<i>Administrative costs considered low, City has capability.</i>
<b>Local champion</b>	<i>City administration</i>
<b>Other community objectives</b>	<i>Could lead to lower flood insurance premiums</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>N/A</i>
<b>Responsible party</b>	<i>City administration, OEM, Engineer, DPW</i>
<b>Potential funding sources</b>	<i>local budget</i>
<b>Time line</b>	<i>1 year</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Ongoing. Have posted information on City website, local newspaper, city newsletter, public meetings and table at Community Day.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>City of Port Republic</i>
Community action number	<i>10</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Hurricane and tropical storms, erosion, flooding, storm surge, wave action</i>
Risk finding	<i>As identified in the 2005 Master Plan update; the City has a substantial amount of streams and wetlands that are classified as being extraordinary by the NJDEP. Natural areas (including but not limited to areas like the Mullica River and Nacote Creek, for example) provide floodplain protection, riparian buffers, and other ecosystem services that mitigate flooding; therefore, it is important to preserve this functionality.</i>
<b>Describing the Action</b>	
Action category	<i>Natural Systems Protection</i>
Action type	<i>Protect and restore natural flood mitigation features</i>
Action description	<i>The proposed action is to: (1) analyze the relevant issues as well as funding options to provide protection to natural areas like the Mullica River and Nacote Creek to the maximum extent possible, and (2) implement prioritized actions as funding becomes available.</i>
Existing, future &/or NA	<i>Existing and future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Losses avoided are unquantifiable but are expected to be in excess of project costs.</i>
Cost estimate	<i>&gt;\$100,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>This project is likely to be cost effective, with benefits anticipated to be in excess of project costs.</i>
Technical	<i>Technically Feasible</i>
Political	<i>No apparent political issues.</i>
Legal	<i>No known legal issues</i>
Environmental	<i>No adverse environmental impacts.</i>
Social	<i>Does not adversely affect any social group.</i>
Administrative capability	<i>City Administration, City engineer</i>
Local champion	
Other community objectives	<i>Supports environmental quality</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Plans</i>
Responsible party	<i>City Administration</i>
Potential funding sources	<i>when grant become available</i>
Time line	<i>1-5 years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Ongoing.</i>