



9.34 Township of Southampton

This section presents the jurisdictional annex for the Township of Southampton.

9.34.1 Hazard Mitigation Plan Point of Contact

The following individuals have been identified as the hazard mitigation plan’s primary and alternate points of contact.

Primary Point of Contact	Alternate Point of Contact
Kathleen Hoffman, Administrator/Township Clerk 5 Retreat Road, Southampton, NJ 08088 609.859.2736 khoffman@southamptonnj.org	Charles Oatman, Director of Public Works 5 Retreat Road, Southampton, NJ 08088 609.694.3679 pw@southamptonnj.org

9.34.2 Municipal Profile

What is now Southampton was originally incorporated as Coaxen Township by an Act of the New Jersey Legislature on March 10, 1845, from portions of Northampton Township (now known as Mount Holly Township). The name lasted for about three weeks when it was renamed Southampton Township on April 1, 1845. Portions of the township were taken from Pemberton Township, Lumberton, Woodland, and Tabernacle.

Southampton Township is governed under the Township form of government with a five-member Township Committee. The Township Committee is elected directly by the voters in partisan elections to serve three-year terms of office on a staggered basis, with one or two seats coming up for election each year. At an annual reorganization meeting, the Township Committee selects one of its members to serve as Mayor and another as Deputy Mayor.

Under the township form, all legislative powers are concentrated in the committee. The committee also has all executive powers not placed in the mayor either by general law or the revised Township act. Additionally, all municipalities under the traditional form may appoint, including the township form, may appoint a municipal administration and “delegate to him all or a portion of the executive responsibilities of the municipality.”¹

Southampton Township is centrally located within Burlington County. The Township is bordered by Tabernacle to the south, Medford to the west, Lumberton and Eastampton to the north-west and north, respectively, Pemberton Township to the north-east and east, and Woodland to the south-east. Southampton has a total area of 44.224 square miles, of which 43.668 square miles is land and 0.556 square miles is water. There are several unincorporated communities found within the Township: Beaverville, Buddtown, Burrs Mill, Chairville, Crescent Heights, Ewansville, Ewingville, Hampton Lakes, Leisuretowne, Medford Park, Oak Shade, Red Lion, Retreat, Sandtown and Vincentown. According to the 2010 Census, the community's population was 10,464.

Southampton Township contains lands within the Pinelands which is managed by the Pinelands Comprehensive Management Plan. The plan establishes nine land use management areas with goals, objectives, development intensities and permitted uses for each. The boundaries of these management areas are displayed on the Pinelands Land Capability Map. They are implemented through local zoning that must conform with Pinelands land use

¹ http://www.njslom.org/magart0307_p14.html



standards. Southampton Township has lands designated as forest area, agricultural production area, rural development area, regional growth area, and Pinelands Village.

Growth/Development Trends

The following table summarizes recent residential/commercial development since 2013 to present and any known or anticipated major residential/commercial development and major infrastructure development that has been identified in the next five years within the municipality. Refer to the map in 9.34.8 of this annex which illustrates the hazard areas along with the location of potential new development.

Table 9.34-1. Growth and Development

Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Location (address and/or block/lot)	Known Hazard Zone(s)	Description/Status of Development
Recent Development from 2013 to present					
None identified.					
Known or Anticipated Development in the Next Five (5) Years					
J and B Plaza	Commercial	4 Unit	Route 206	Wildfire: Very High	Strip Mall with various tenants

**Only location-specific hazard zones or vulnerabilities identified.*

9.34.3 Natural Hazard Event History Specific to the Municipality

Burlington County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5.0 of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities. For the purpose of this plan update, events that have occurred in the County from 2013 to present were summarized to indicate the range and impact of hazard events in the community. Information regarding specific damages is included, if available, based on reference material or local sources. This information is presented in the table below. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.34-2. Hazard Event History

Dates of Event	Event Type (Disaster Declaration if applicable)	Burlington County Designated?	Summary of Damages/Losses
April 30-May 1, 2014	Heavy Rain and Flooding	No	Downed trees and wires, power outages, road closures
June 23, 2015	Severe Storm (DR-4231)	Yes	Downed trees and wires, power outages, road closures
January 22-24, 2016	Severe Winter Storm (DR-4264)	Yes	Downed trees and wires, power outages, road closures

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)
- N/A Not applicable

9.34.4 Hazard Vulnerabilities and Ranking

The hazard profiles in Section 5.0 of this plan have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the hazard vulnerabilities and their ranking





in the Township of Southampton. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.0.

Hazard Risk/Vulnerability Risk Ranking

The table below summarizes the hazard risk/vulnerability rankings of potential hazards for the Township of Southampton. During the review of the hazard/vulnerability risk ranking, the Township indicated the following:

- Flood was changed from a low hazard to a medium hazard.

Table 9.34-3. Hazard Risk/Vulnerability Risk Ranking

Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{a, c}	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ^b
Coastal Erosion	RCV Exposed to CE Hazard Area: \$0	Rare	6	Low
Drought	Damage estimate not available.	Frequent	30	Medium
Earthquake	100-Year GBS: \$0 500-Year GBS: \$3,736,462 2,500-Year GBS: \$54,523,655	Occasional	28	Medium
Flood*	1% Annual Chance: \$247,542,681	Frequent	18	High
Landslide	RCV Exposed to Landslide Hazard Area \$0	Rare	6	Low
Severe Storm	100-year MRP: \$5,161,880 500-year MRP: \$17,209,412 Annualized: \$295,912	Frequent	48	High
Severe Winter Weather	1% GBS: \$39,750,618 5% GBS: \$198,753,090	Frequent	51	High
Wildfire	Estimated Value in the Extreme, Very High, and High Hazard Areas: \$341,146,488	Occasional	22	Medium

Notes:

- Building damage ratio estimates based on FEMA 386-2 (August 2001)
 - The valuation of general building stock and loss estimates was based on custom inventory for the municipality.
High = Total hazard priority risk ranking score of 31 and above
Medium = Total hazard priority risk ranking of 20-30+
Low = Total hazard risk ranking below 20
 - Loss estimates for the severe storm and severe winter storm hazards are structural values only and do not include the value of contents.
 - Loss estimates for the flood and earthquake hazards represent both structure and contents.
 - The HAZUS-MH earthquake model results are reported by Census Tract.
- * The Township of Southampton changed the risk ranking for flood from low to high.

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Township of Southampton.

Table 9.34-4. NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 100-year Boundary (3)





Township of Southampton	100	138	\$2,301,683.67	23	2	10
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Source: FEMA Region 2 2017, 2018

(1) Repetitive loss and severe repetitive loss statistics provided by FEMA Region 2 and are current as of 10/31/2017. Policy and claims statistics current as of 9/30/2018

Please note the total number of repetitive loss properties does not include the severe repetitive loss properties. The number of claims represents claims closed by 9/30/2018.

(2) Total building and content losses from the claims file provided by FEMA Region 2.

(3) The policies inside and outside of the flood zones are based on the addresses geocoded from the FEMA Region 2 policy file - 10/31/2017.

Notes: FEMA noted that where there is more than one entry for a property, there may be more than one policy in force or more than one GIS possibility.

A zero percentage denotes less than 1/100th percentage and not zero damages or vulnerability as may be the case.

Critical Facilities

The table below presents Hazards United States (HAZUS) – Multi-Hazards (MH) estimates of the damage and loss of use to critical facilities in the community as a result of a 1-percent annual chance flood event.

Table 9.34-5. Potential Flood Losses to Critical Facilities

Name	Type	Exposure		Potential Loss from 1% Flood Event	
		1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage
425 - Diamond Property - Main House	County Building	X	X	4	24
426 - Diamond Property - Small Shed	County Building	X	X	2.5	15
455 - Stevens Property - Main House	County Building	X	X	0	0
456 - Stevens Property - Garage	County Building	X	X	4	24
457 - Stevens Property - Shed 1	County Building	X	X	3	18
458 - Stevens Property - Shed 2	County Building	X	X	5.3	32.9
467 - Hancock Property - Structure	County Building	X	X	0	0
503 - Lindsay Property - Main House	County Building	X	X	7.1	50.3
504 - Lindsay Property - Shed 1	County Building	X	X	5	30
505 - Lindsay Property - Shed 2	County Building	X	X	5.6	35.8
Allen Oil	Chemical	X	X	-	-
Trinity Episcopal Church	Shelter	X	X	15.1	88.6
Warren Hopely Heliport	Airport	X	X	-	-

Source: FEMA 2017, Burlington County

Note: - = Damages not calculated by HAZUS-MH v4.0

Other Vulnerabilities Identified

The municipality has identified the following vulnerabilities within their community:

- Beaverdam Creek – primary flooding source due to torrential rains during summer and autumn months
- Rancocas Creek North Branch – primary flooding source due to torrential rains during summer and autumn months



9.34.5 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Community classification
- National Flood Insurance Program
- Integration of mitigation planning into existing and future planning mechanisms

Planning and Regulatory Capability

The table below summarizes the regulatory tools that are available to the Township of Southampton.

Table 9.34-7. Planning and Regulatory Tools

Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Planning Capability				
Master Plan	2005	County	Governing Body, Planning	Master Plan review is underway April 2018
Capital Improvements Plan	2005	Local	Planning	12-9.5, Pg. 12221 Being updated along with Master Plan review/update
Floodplain Management / Basin Plan	2005	Local	Township Engineer, Construction	17-4 Being updated along with Master Plan review/update
Stormwater Management Plan	2005	Local	Township Engineer, Construction, County	21-6.2 Being updated along with Master Plan review/update
Open Space Plan	2005	Local	Planning	Being updated along with Master Plan review/update
Stream Corridor Management Plan	2005	Local	Engineer	Being updated along with Master Plan review/update
Watershed Management or Protection Plan	2005		Engineer	Being updated along with Master Plan review/update
Economic Development Plan	2005	Local	Governing Body, Planning	Being updated along with Master Plan review/update
Comprehensive Emergency Management Plan	No			
Emergency Operation Plan	2010	local	OEM	State Review/update requirements
Post-Disaster Recovery Plan	No			
Transportation Plan	No			
Strategic Recovery Planning Report	No			
Other Plans:				
Regulatory Capability				



Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Building Code	2005	State & Local	Construction	Section 8-1, Pg. 801. 2013 BOCA code was adopted in 2013
Zoning Ordinance	2005	Local	Governing Body, Construction, Zoning	Section 12, Section 19, Section 1201
Subdivision Ordinance	2008	Local	Planning	Section 12-5
NFIP Flood Damage Prevention Ordinance	2005	Federal, State, Local	Governing Body, Construction	17-1 Updated with NJDEP ordinance adopted 2017
NFIP: Cumulative Substantial Damages	No			
NFIP: Freeboard	Yes	State, Local		
Growth Management Ordinances	2005	Local	Governing Body, Planning	Being updated along with Master Plan review/update
Site Plan Review Requirements	2005	Local	Planning	Being updated along with Master Plan review/update
Stormwater Management Ordinance	2005	Local	Township Engineer, Construction, County	21-6.2
Municipal Separate Storm Sewer System (MS4)	Yes	Local		21-1.1 Pinelands Wastewater Commission
Natural Hazard Ordinance	No			
Post-Disaster Recovery Ordinance	No			
Real Estate Disclosure Requirement	Yes	State	Planning and Zoning	
Other (Special Purpose Ordinances [i.e., sensitive areas, steep slope])	No			

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Township of Southampton.

Table 9.34-8. Administrative and Technical Capabilities

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	Yes	Planning Board
Mitigation Planning Committee	Yes	Planning Board duty
Environmental Board/Commission	Yes	Environmental Commission
Open Space Board/Committee	Yes	Planning Board
Economic Development Commission/Committee	Yes	Planning Board



Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Maintenance programs to reduce risk	Yes	Fire Department
Mutual aid agreements	Yes	
Technical/Staffing Capability		
Planner(s) or engineer(s) with knowledge of land development and land management practices	Yes	Alaimo Engineering/Construction Official
Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	Alaimo Engineering/Construction Official
Planners or engineers with an understanding of natural hazards	Yes	Alaimo Engineering/LEPC/EMC
NFIP Floodplain Administrator (FPA)	Yes	Township Construction Dept./John Holyrod
Surveyor(s)	Yes	Alaimo Engineering
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	Yes	Alaimo Engineering
Scientist familiar with natural hazards	Yes	Alaimo Engineering
Emergency Manager	Yes	Kathleen Agolio, OEM (acting) Awaiting for appointment by Twp. Committee
Grant writer(s)	Yes	Bridge Commission
Staff with expertise or training in benefit/cost analysis	Yes	Nancy Gower, Treasurer; Kathleen D, Hoffman, Clerk/Administrator
Professionals trained in conducting damage assessments	Yes	Construction Official – John Holyrod

Fiscal Capability

The table below summarizes financial resources available to the Township of Southampton.

Table 9.34-9. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvements project funding	Yes
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	Yes
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	No
Open Space Acquisition funding programs	Yes (2% open space municipal tax)
Other	No

Community Classifications

The table below summarizes classifications for community program available to the Township of Southampton.





Table 9.34-10. Community Classifications

Program	Do you have this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	N/A	N/A
Building Code Effectiveness Grading Schedule (BCEGS)	No		
Public Protection (ISO Fire Protection Classes 1 to 10)	No		
Storm Ready Certification	No	N/A	N/A
Firewise Communities classification	Yes		2013 & 2014
Natural disaster/safety programs in/for schools	No		
Organizations with mitigation focus (advocacy group, non-government)	No		
Public education program/outreach (through website, social media)	No		
Public-private partnership initiatives addressing disaster-related issues	No		

Note:

- N/A Not applicable
- NP Not participating
- Unavailable

The classifications listed above relate to the community’s ability to provide effective services to lessen its vulnerability to the hazards identified. These classifications can be viewed as a gauge of the community’s capabilities in all phases of emergency management (preparedness, response, recovery and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. The CRS class applies to flood insurance while the BCEGS and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10 with class 1 being the best possible classification, and class 10 representing no classification benefit. Firewise classifications include a higher classification when the subject property is located beyond 1000 feet of a creditable fire hydrant and is within 5 road miles of a recognized Fire Station.

Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual
- The Building Code Effectiveness Grading Schedule
- The ISO Mitigation online ISO’s Public Protection website at <https://www.isomitigation.com/ppc/>
- The National Weather Service Storm Ready website at <http://www.stormready.noaa.gov/index.html>
- The National Firewise Communities website at <http://firewise.org/>

Self-Assessment of Capability

The table below provides an approximate measure of the Township of Southampton’s capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.

Table 9.34-11. Self-Assessment Capability for the Municipality

Area	Degree of Hazard Mitigation Capability		
	Limited (If limited, what are your obstacles?)*	Moderate	High
Planning and regulatory capability	X		





Area	Degree of Hazard Mitigation Capability		
	Limited (If limited, what are your obstacles?)*	Moderate	High
Administrative and technical capability		X	
Fiscal capability			X
Community political capability		X	
Community resiliency capability	X		
Capability to integrate mitigation into municipal processes and activities	X		

National Flood Insurance Program

NFIP Floodplain Administrator (FPA)

Nancy Gower, CFO

Flood Vulnerability Summary

At this time, the municipality does not maintain a list or inventory of properties that have been flood damaged, and does not have a record of the number of homes that may have been damaged during Hurricane Sandy or other storm events. The municipality does not make sustainable damage estimates and does not have a count for a given storm event. Funding sources for potential mitigated properties can include local budget or grant funding with aid from the property owner.

Resources

The FPA is the sole person assuming the responsibilities of floodplain administration for the Township. NFIP administration services and functions provided by the FPA include, permit review, inspections, and education and outreach. The Township provides education and outreach to the community regarding the flood hazard; information and links to flood maps and insurance information is available on the website. The FPA is adequately supported and trained to fulfill the responsibilities as the FPA, but would consider attending continuing education and/or certification training on floodplain management if it were offered in the County.

Compliance History

The Township is currently in good standing with the NFIP; however, the date of the most recent compliance audit is unknown.

Regulatory

The Township’s floodplain management regulations/ordinances meet the FEMA and State minimum requirements. The planning board and zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions. The Township has considered joining the Community Rating System (CRS) and would attend a CRS seminar if offered locally.

Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of this planning effort, each community was surveyed to obtain a better understanding of their community’s progress in plan integration. A summary is provided below. In addition, the community identified specific integration activities that will be incorporated into municipal procedures.



Planning

Pinelands Comprehensive Management Plan: The New Jersey Pinelands Commission protects the Pinelands through its implementation of the Comprehensive Management Plan (CMP). The CMP contains the rules that guide land-use, development and natural resource protection programs in the state Pinelands Area. The regulations and standards contained in the CMP are designed to promote orderly development by channeling growth toward appropriate areas while safeguarding the region's unique natural, ecological, agricultural, archaeological, historical, scenic, cultural and recreational resources.

The Pinelands Comprehensive Management Plan provides general provisions, interpretations and definitions, certification of County, Municipal and Federal Installation Plans, development review, minimum standards for land uses and intensities, management programs and minimum standards, amendments to the comprehensive management plan, enforcement, acquisition of properties with limited practical use, and pilot programs.

Regulatory and Enforcement (Ordinances)

NJDEP Municipal Stormwater Regulation Program: New Jersey Department of Environmental Protection issued the statewide municipal stormwater permits that became effective January 1, 2018 and authorizes stormwater discharges from municipal separate storm sewer systems (MS4s) to the waters of the state. Municipalities that have been issued a Notice of Authorization (NOA) to discharge under the Tier A (urban and coastal municipalities) or Tier B (more rural municipalities) master general permit must develop and implement a stormwater program. The first New Jersey Pollutant Discharge Elimination System (NJPDES) permit authorizing discharges from MS4 municipalities became effective in 2004 (subsequently renewed in 2009 and now in 2018), so most municipalities have developed stormwater programs; however, the 2018 permit requires the municipalities to maintain a stormwater management plan and enforce stormwater ordinances to address development and redevelopment consistent with the Stormwater Management rules at N.J.A.C 7:8, as well as implementation of additional requirements. For more information on the municipal stormwater regulation program, see www.nj.gov/dep/dwq/msrp_home.htm. Southampton Township is a Tier A municipality.

Stormwater Management: Chapter 21 of the municipal code discusses waste disposal/pollution control/stormwater management. The chapter is intended to regulate the improper disposal of waste, pet waste, wildlife feeding, the yard waste collection program, illicit connections, private storm drain retrofitting, refuse containers-dumpsters, stormwater management and control regulations in non-Pinelands area and in Pinelands area, and establish enforcement and penalties. This chapter also regulates the municipal separate storm sewer (MS4) operated by the Township.

Flood Damage Prevention: The purpose of the flood damage prevention ordinance (Chapter 17 of the municipal code) is to promote the public health, safety, and general welfare, and to minimize public and private losses due to flood conditions in specific areas by provisions designed;

- To protect human life and health;
- To minimize expenditure of public money for costly flood control projects;
- To minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public;
- To minimize prolonged business interruptions;
- To minimize damage to public facilities and utilities such as water and gas mains, electric, telephone and sewer lines, streets and bridges located in areas of special flood hazard;
- To help maintain a stable tax base by providing for the second use and development of areas of special flood hazard so as to minimize future flood blight areas;



- To insure that potential buyers are notified that property is in an area of flood hazard; and
- To ensure that those who occupy the areas of special flood hazard assume responsibility for their actions.

Operational and Administration

Southampton Township has the following boards, commissions, and committees:

- Planning Board
- Zoning Board
- Environmental Commission
- Preservation Committee
- Southampton 2030

Sustainable Jersey: Southampton Township is bronze certified in the Sustainable Jersey program. Sustainable Jersey certification is a prestigious designation for municipal governments in New Jersey. Municipalities that achieve the certification are considered by their peers, by state government and by the experts and civic organizations in New Jersey, to be among the leading municipalities. All actions taken by municipalities to score points toward certification must be accompanied by documentary evidence and is reviewed. The certification is free and completely voluntary. The Township has received points for its tree maintenance program.

Funding

The Township has access to Capital Improvements project funding and is eligible to apply for Community Development Block Grants, FEMA Pre-Disaster Mitigation or Flood Mitigation Assistance grant funding, or other state/federal grants to fund mitigation projects. The Township also utilizes a 2% open space municipal tax for funding open space programs.

Education and Outreach

Southampton Township has a website where one can access information about public safety, the mayor and committee, municipal government, the community, business, history, municipal codes and view upcoming events and announcements. Within the links for public safety, under emergency management, there is a webpage for flood emergencies that includes information about the flood alert hotline, the National Weather Service, the Middle Atlantic River Forecast Center, 24-hour precipitation totals, and information for emergency managers.

9.34.6 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritization.

Past Mitigation Initiative Status

The following table indicates progress on the community's mitigation strategy identified in the 2013 Plan. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under 'Capability Assessment' presented previously in this annex.



Table 9.34-12. Status of Previous Mitigation Actions

Action Number	2013 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Steps 1. Project to be included in 2019 HMP or Discontinue 2. If including action in the 2019 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
SH-1	Scarborough Way (Leisure Towne) Replace damaged drainage pipe and re-line. Reduce road and property flooding in that area.	Township committee and Engineer	In progress	Joint venture with Leisure Towne and Twp. Finance issues are being resolved	Include in 2019 HMP Continue communication with Leisure Town to address financial issues
SH-2	Community Wildfire Protection Plan (Implement Plan for communities to participate in fire awareness programs, clean-up days, thereby reducing possibility of damage to persons and property from wildfires.	NJ Forest Service Shade Tree Committee	Complete		1. Discontinue 2. The three communities, Leisure the Grand and Tranquility Ridge are all Firewise communities and promote planning and maintain properties against fire hazard
SH-3	Enhance resilience to severe storms by joining the NOAA “Storm Ready” program.	NOAA/ST OEM Municipality with support from NJOEM, FEMA and county	No progress	Financial and personnel issues have prevented movement on this action	Include in 2019 HMP Secure funding pursue action
SH-4	Obtain Firewise community status by implementing and participating in strategies to prevent and reduce damage due to wildfires.	NJ Forest Service/ST Shade Tree Commission	No progress	Financial and personnel issues have prevented movement on this action	Include in 2019 HMP Secure funding pursue action
SH-5	Wildfire Mitigation Plan (Create and complete this plan, implemented by ST Shade Tree Committee in conjunction with NJ Forest Service and ST Emergency Management to prevent and reduce damage from wildfires.)	ST Shade Tree commission/NJ Forest Service/ST Emergency Management	Complete	Shade Tree Commission and NJ Fire Service are in process of updating the plan as required and share the information /plan with Southampton OEM and Fire.	Discontinue Plan being updated; results will be shared once complete
SH-6	Rancocas Creek Watershed Management/South Branch (Between Race and Mill Streets in Vincentown	ST/DPW/Independent contractor	In progress	Stabilization along embankment was completed and has mitigated some floodwaters and erosion. Additional work is needed regarding removal of trees and	Include in 2019 HMP Continue pursuing the action





Action Number	2013 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Steps 1. Project to be included in 2019 HMP or Discontinue 2. If including action in the 2019 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
	<p>portion of ST (Obtain inspection of area in regards to soil erosion undermining trees along this area. Implement removal of soil buildup in this area, enhancing safe flow of water thereby reducing threat of flood damage to homes, historical and first responder buildings. Construction of flood/retaining walls..</p>			<p>debris. Township is working with County to remediate issue and to cooperatively work on this initiative.</p>	
SH-7	<p>Dry Hydrants-stand pipes(Participate and implement recommendations from CWPP to inspect, clean, and repair existing 5 standpipes in ST. Install new dry hydrant on border of ST and Medford. Enhance ability of fire departments to contain and control wildfires in areas that do not have water fire hydrants</p>	<p>NJ Forest Service/ST DPW</p>	<p>Complete</p>	<p>Complete</p>	<p>Discontinue Complete</p>
SH-8	<p>Maintain and enhance 911 notifications via land lines, cell phone, and email alerts. Purchase new portable and mobile radios plus base stations to improve awareness and response during an emergency. Maintain and update EM website to provide preparedness information to residents.</p>	<p>ST OEM/ Burlington County OEM</p>	<p>Complete</p>	<p>Twp is working with County with regards to new a radio communications system. Twp has a reverse 9-11 system and Nixel alert as well as Facebook and Twitter. Twp sends blasts out to residents with social media</p>	<p>Discontinue Maintain close coordination with County regarding new radio system</p>



Action Number	2013 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Steps 1. Project to be included in 2019 HMP or Discontinue 2. If including action in the 2019 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
SH-9	Evaluate benefits of participating in CRS program	Twp. Committee; Planning	No progress	Financial and personnel issues have delayed movement on this action	Include in 2019 HMP Secure funding pursue action
SH-10	Conduct and facilitate community and public education and outreach for residents and businesses to promote natural hazard risk reduction to include: • Disaster preparedness Hazard mitigation	Municipality with support from Planning Partners, County Planning, NJOEM, FEMA	Minimal progress	Township is currently in process of appointing a OEM director. This action will be addressed with the new OEM Director	Include in 2019 HMP Twp is expected to appoint a OEM Director by June
SH-11	Old Forge Road Leisure Towne section of ST.(Provide access to this road for local fire departments, LT Maintenance, and JCPL. Reduce possible length of power outages, improve ability of fire departments to protect residential homes adjacent to this road that may be impacted by wildfires.	LT Maintenance JCPL	Complete	Complete	Discontinue Public Works completed work. Leisure Towne maintains access to maintenance area
SH-12	Obtain and install backup power sources at critical facilities.	Municipality with support from County, NJOEM and FEMA	In progress	Generator has been installed at three Schools as the schools are designated shelters for the Twp.	Include in 2019 HMP Leisure Town is eyed to a generator at Laurel and Settlers Hall. Township Hall is in need of a generator. Twp. is coordinating with County, State and Senator Addegio's Office
SH-13	Create/Enhance/Maintain Mutual Aid agreements with neighboring communities for continuity of operations	Municipality with support from County, NJOEM, FEMA and surrounding communities	Complete	This is a capability of the Township and it will be removed as an action	Discontinue Ongoing capability
SH-14	Continue to support the implementation, monitoring, maintenance, and updating of this Plan through	Municipality with support from Planning Partners,	Complete	Complete	Discontinue Participating in plan update





Action Number	2013 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Steps 1. Project to be included in 2019 HMP or Discontinue 2. If including action in the 2019 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
	participating in the 5 year Plan Update	County Planning, NJOEM, FEMA			
SH-15	Promote the participation of Floodplain Administrator within the planning process and other related activities.	Municipality with support from County, NJOEM and FEMA	Complete	Complete	Discontinue Ongoing capability
SH-16	Provide public education and outreach on proper installation and/or use of backup power	Administration Governing Body	Complete	Complete	Discontinue Info sheets were sent with tax bill. Info is sent out every year to residents and is posted on municipal website
SH-17	Address dangerous trees threatening people and property through proactive tree-trimming (vegetation management) programs in conjunction with property owners and utility companies.	Shade Tree Committee	Complete	Complete	Discontinue This action is constantly being completed as needed. Coordination is made with all three utility companies that operate in Township.
SH-18	Explore floodproofing or relocating the Vincent Fire Department building	Fire Department Governing Body	No Progress	Financial issues and costs	Include in 2019 HMP Change to Relocate the Vincent Fire Dept. Building to dry ground.
SH-19	Consider acquiring, elevating, or relocating repetitive loss and severe repetitive loss properties in the Township	Municipality with support from County, NJOEM and FEMA	No progress		Include in HMP County has a program to acquire RL SRL properties. Financial and Personnel issues prevent the Twp. form moving on this action. Work with the continue to acquire grant funding for this action.



Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy

The Township of Southampton has identified the following mitigation projects/activities that have also been completed but were not identified in the previous mitigation strategy in the 2013 Plan:

- None identified by the municipality.

Proposed Hazard Mitigation Initiatives for the Plan Update

The municipality participated in a mitigation action workshop in March 2018 and was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 ‘Selecting Appropriate Mitigation Measures for Floodprone Structures’ (March 2007) and FEMA ‘Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards’ (January 2013).

Table 9.34-13 summarizes the comprehensive-range of specific mitigation initiatives the Township of Southampton would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below to further demonstrate the wide-range of activities and mitigation measures selected.

As discussed in Section 6, 14 evaluation/prioritization criteria are used to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing your actions as ‘High’, ‘Medium’, or ‘Low.’ The table below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.34-14 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.34-13. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Critical Facility (Yes / No)	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
SH-1 (Former SH-1)	Scarborough Way (Leisure Towne) Replace damaged drainage pipe and re-line. Reduce road and property flooding in that area.	No	Flood	1, 2, 6	Township committee and Engineer	Medium	Medium	Local 2013 Road Project	Short	High	SIP	PP, SP
SH-2 (Former SH-3)	Enhance resilience to severe storms by joining the NOAA “Storm Ready” program.	No	Severe Storms	All	NOAA/ST OEM, Municipality with support from NJOEM, FEMA, and county	Medium	Low	Municipal Budget Grants	Short	Medium	EAP	NP, PI
SH-3 (Former SH-4)	Obtain Firewise community status by implementing and participating in strategies to prevent and reduce damage due to wildfires.	No	Fire	All	NJ Forest Service/ST Shade Tree Commission	High	Medium	NJ Forest Service	Short	High	EAP	PP, NR, PI
SH-4 (Former SH-6)	Rancocas Creek Watershed Management/South Branch (Between Race and Mill Streets in Vincentown portion of ST (Obtain inspection of area in regards to soil erosion undermining trees along this area. Implement removal of soil buildup in this area, enhancing safe flow of water thereby reducing threat of flood damage to homes, historical and first responder buildings. Construction of flood/retaining walls.	No	Flood	1, 2, 4, 6	ST/DPW/Independent contractor	High	Medium	Federal, State, County Grants, NFIP	Short	Medium	SIP, NSP	PP, NR, ES, SP
SH-5 (Former SH-9)	Evaluate benefits of participating in CRS program	No	All	All	Twp. Committee; Planning	Medium	Low	Twp./Public	Short	Medium	LPR	PR
SH-6 (Former SH-10)	Conduct and facilitate community and public education and outreach for residents and businesses to promote natural hazard risk reduction to include: <ul style="list-style-type: none"> Disaster preparedness 	No	All Hazards	1, 2, 5	Municipality with support from Planning Partners, County Planning,	Medium	Medium	Municipal Budget, HMA programs with local or	Short	Medium	EAP	PI





Table 9.34-13. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Critical Facility (Yes / No)	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
	<ul style="list-style-type: none"> Hazard mitigation 				NJOEM, FEMA			county match				
SH-7 (Former SH-12)	Obtain and install backup power sources at critical facilities.	Yes	All Hazards	1, 2, 6	Municipality with support from County, NJOEM and FEMA	High	High	Municipal Budget grant funding	Short	Medium High	SIP	ES, PR, PP
SH-8 (Former SH-18)	Explore floodproofing or relocating the Vincent Fire Department building	Yes	Flood, Severe Storm	1, 2, 6	Fire Department, Governing Body	High	High	FEMA HMGP, Grants	Long	Medium	SIP	PR, PP
SH-9 (Former SH-19)	Work with County to acquire grant funding for acquiring, elevating, or relocating repetitive loss and severe repetitive loss properties in the Township	No	Flood	1, 2, 6	Municipality with support from County, NJOEM and FEMA	High	High	FEMA HMGP, Grants	Short	High	SIP	PP
SH-10	Mitigate Pumping Stations in Vincetown Village. Install Floodwall around or elevate pump station mechanicals	Yes	New	1, 2, 6	Municipality with support of Pinelands Wastewater Work with Pinelands Wastewater to Develop a plan to mitigate pump stations	High	High	FEMA HMGP, Grants	Short	High	SIP	PP, SP
SH-11	Coordinate with the facility managers at County Buildings in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage. Phase 1: Identify most cost-effective mitigation option Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.	Yes	All Hazards	1, 2, 6	Municipality with support from County	High	High	HMA Grants, Municipal Budget	Short Term DOF	Medium	SIP	SP, PP





Table 9.34-13. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Critical Facility (Yes / No)	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
SH-12	Coordinate with the facility managers at Allen Oil in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage. Phase 1: Identify most cost-effective mitigation option Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.	Yes	All Hazards	1, 2, 6	Municipality with support from County	High	High	HMA Grants, Municipal Budget	Short Term DOF	Medium	SIP	SP, PP
SH-13	Coordinate with the facility managers at Trinity Episcopal Church in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage. Phase 1: Identify most cost-effective mitigation option Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.	Yes	All Hazards	1, 2, 6	Municipality with support from County	High	High	HMA Grants, Municipal Budget	Short Term DOF	Medium	SIP	SP, PP
SH-14	Coordinate with the facility managers at Warren Hopely Heliport in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage. Phase 1: Identify most cost-effective mitigation option Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.	Yes	All Hazards	1, 2, 6	Municipality with support from County	High	High	HMA Grants, Municipal Budget	Short Term DOF	Medium	SIP	SP, PP



Table 9.34-13. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Critical Facility (Yes / No)	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
SH-15	During future updates of the Master Plan, Capital Improvements Plan, Open Space Plan, Economic Development Plan, or other plans, work to integrate hazard mitigation principles and recommendations into the plans. Additionally, use these hazard mitigation principles and plan recommendations to update local building and zoning codes to create a more resilient community.	No	All Hazards	All	Municipality	High	Low	Municipal Budget	Short Term, Depending on update schedule	High	LPR	PR
SH-16	The Township will promote and support non-structural flood hazard mitigation alternatives for at risk properties within the floodplain, specifically those that have been identified as Repetitive Loss (RL) and Severe Repetitive Loss (SRL). At risk areas include: <ul style="list-style-type: none"> • E Mae Ave • Lenape Trail • Cedar Water Road • New Freedom Road • W Mae Ave • Crystal Ave • Mill Street • Race Street • Eayrestown Road • Main Street <p>Alternatives would include acquisition/relocation or elevation depending on feasibility, and the completion of initiative is dependent on funding, benefits versus cost, and willing participation of property owners.</p>	No	Flood	1, 2	Municipality with support from County	High	High	Grant funding; Municipal budget	Short	High	SIP	PP





Notes:

Not all acronyms and abbreviations defined below are included in the table.

*Does this mitigation initiative reduce the effects of hazards on new and/or existing buildings and/or infrastructure? Not applicable (N/A) is inserted if this does not apply.

Acronyms and Abbreviations:

CAV	Community Assistance Visit
CRS	Community Rating System
DPW	Department of Public Works
FEMA	Federal Emergency Management Agency
FPA	Floodplain Administrator
HMA	Hazard Mitigation Assistance
N/A	Not applicable
NFIP	National Flood Insurance Program
OEM	Office of Emergency Management

Potential FEMA HMA Funding Sources:

FMA	Flood Mitigation Assistance Grant Program
HMGP	Hazard Mitigation Grant Program
PDM	Pre-Disaster Mitigation Grant Program
RFC	Repetitive Flood Claims Grant Program (discontinued in 2015)
SRL	Severe Repetitive Loss Grant Program (discontinued in 2015)

Timeline:

Short	1 to 5 years
Long Term	5 years or greater
OG	On-going program
DOF	Depending on funding

Costs:

Where actual project costs have been reasonably estimated:

Low	< \$10,000
Medium	\$10,000 to \$100,000
High	> \$100,000

Where actual project costs cannot reasonably be established at this time:

Low	Possible to fund under existing budget. Project is part of, or can be part of an existing on-going program.
Medium	Could budget for under existing work plan, but would require a reapportionment of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.
High	Would require an increase in revenue via an alternative source (i.e., bonds, grants, fee increases) to implement. Existing funding levels are not adequate to cover the costs of the proposed project.

Benefits:

Where possible, an estimate of project benefits (per FEMA's benefit calculation methodology) has been evaluated against the project costs, and is presented as:

Low=	< \$10,000
Medium	\$10,000 to \$100,000
High	> \$100,000

Where numerical project benefits cannot reasonably be established at this time:

Low	Long-term benefits of the project are difficult to quantify in the short term.
Medium	Project will have a long-term impact on the reduction of risk exposure to life and property, or project will provide an immediate reduction in the risk exposure to property.
High	Project will have an immediate impact on the reduction of risk exposure to life and property.

Mitigation Category:

- Local Plans and Regulations (LPR) – These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- Structure and Infrastructure Project (SIP) - These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.
- Natural Systems Protection (NSP) – These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.
- Education and Awareness Programs (EAP) – These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities

CRS Category:

- Preventative Measures (PR) - Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.





- *Property Protection (PP) - These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.*
- *Public Information (PI) - Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.*
- *Natural Resource Protection (NR) - Actions that minimize hazard loss and also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.*
- *Structural Flood Control Projects (SP) - Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.*
- *Emergency Services (ES) - Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities*



Table 9.34-14. Summary of Prioritization of Actions

Mitigation Action / Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
SH-1 (Former SH-1)	Scarborough Way (Leisure Towne) Replace damaged drainage pipe and re-line. Reduce road and property flooding in that area.	1	1	1	1	1	1	-1	0	0	1	0	1	1	0	8	High
SH-2 (Former SH-3)	Enhance resilience to severe storms by joining the NOAA “Storm Ready” program.	1	1	0	1	1	1	0	0	1	1	1	0	1	0	9	Medium
SH-3 (Former SH-4)	Obtain Firewise community status by implementing and participating in strategies to prevent and reduce damage due to wildfires.	1	1	0	1	1	1	0	0	1	1	0	0	1	0	8	High
SH-4 (Former SH-6)	Rancocas Creek Watershed Management/South Branch (Between Race and Mill Streets in Vincentown portion of ST (Obtain inspection of area in regard to soil erosion undermining trees along this area. Implement removal of soil buildup in this area, enhancing safe flow of water thereby reducing threat of flood damage to homes, historical and first responder buildings. Construction of flood/retaining walls.	1	1	1	0	1	1	-1	1	0	1	1	1	1	0	9	Medium
SH-5 (Former SH-9)	Evaluate benefits of participating in CRS program	1	1	1	0	1	1	0	0	0	1	1	1	1	0	9	Medium
SH-6 (Former SH-10)	Conduct and facilitate community and public education and outreach for residents and businesses to promote natural hazard risk reduction to include: <ul style="list-style-type: none"> Disaster preparedness Hazard mitigation 	1	1	1	1	1	1	1	1	1	1	1	1	1	0	13	Medium





Table 9.34-14. Summary of Prioritization of Actions

Mitigation Action / Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
SH-7 (Former SH-12)	Obtain and install backup power sources at critical facilities.	1	1	1	1	1	1	-1	0	0	1	1	1	1	0	9	Medium High
SH-8 (Former SH-18)	Explore floodproofing or relocating the Vincent Fire Department building	0	1	1	1	1	1	-1	0	1	1	0	0	1	0	7	Medium
SH-9 (Former SH-19)	Work with County to acquire grant funding for acquiring, elevating, or relocating repetitive loss and severe repetitive loss properties in the Township	1	1	1	1	1	1	-1	0	1	1	0	1	1	0	9	High
SH-10	Mitigate Pumping Stations in Vincentown Village. Install Floodwall around or elevate pump station mechanicals	0	1	1	1	1	1	-1	0	1	1	0	1	1	0	9	High
SH-11	Coordinate with the facility managers at County Buildings in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage. Phase 1: Identify most cost-effective mitigation option Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.	0	1	1	1	1	1	-1	0	1	1	0	0	1	0	7	Medium
SH-12	Coordinate with the facility managers at Allen Oil in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage.	0	1	1	1	1	1	-1	0	1	1	0	0	1	0	7	Medium



Table 9.34-14. Summary of Prioritization of Actions

Mitigation Action / Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
	Phase 1: Identify most cost-effective mitigation option Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.																
SH-13	Coordinate with the facility managers at Trinity Episcopal Church in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage. Phase 1: Identify most cost-effective mitigation option Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.	0	1	1	1	1	1	-1	0	1	1	0	0	1	0	7	Medium
SH-14	Coordinate with the facility managers at Warren Hopely Heliport in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage. Phase 1: Identify most cost-effective mitigation option Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.	0	1	1	1	1	1	-1	0	1	1	0	0	1	0	7	Medium



Table 9.34-14. Summary of Prioritization of Actions

Mitigation Action / Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
SH-15	During future updates of the Master Plan, Capital Improvements Plan, Open Space Plan, Economic Development Plan, or other plans, work to integrate hazard mitigation principles and recommendations into the plans. Additionally, use these hazard mitigation principles and plan recommendations to update local building and zoning codes to create a more resilient community.	1	1	1	1	1	1	1	0	0	1	1	0	1	0	10	High
SH-16	The Township will promote and support non-structural flood hazard mitigation alternatives for at risk properties within the floodplain, specifically those that have been identified as Repetitive Loss (RL) and Severe Repetitive Loss (SRL). At risk areas include: E Mae Ave Lenape Trail Cedar Water Road New Freedom Road W Mae Ave Crystal Ave Mill Street Race Street Eayrestown Road Main Street Alternatives would include acquisition/relocation or elevation depending on feasibility, and the completion of initiative is dependent on	1	1	0	1	1	1	-1	0	0	1	0	1	1	0	8	High





Table 9.34-14. Summary of Prioritization of Actions

Mitigation Action / Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
	funding, benefits versus cost, and willing participation of property owners.																

Note: Refer to Section 6, which conveys guidance on prioritizing mitigation actions.



9.34.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

9.34.8 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Township of Southampton that illustrate the probable areas impacted within the municipality. These maps are based on the best available data at the time of the preparation of this plan, and are considered to be adequate for planning purposes. Maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Township of Southampton has significant exposure. These maps are illustrated in the hazard profiles within Section 5.4, Volume I of this Plan.

9.34.9 Additional Comments

None at this time.



Figure 9.34-1. Township of Southampton Hazard Area Extent and Location Map 1

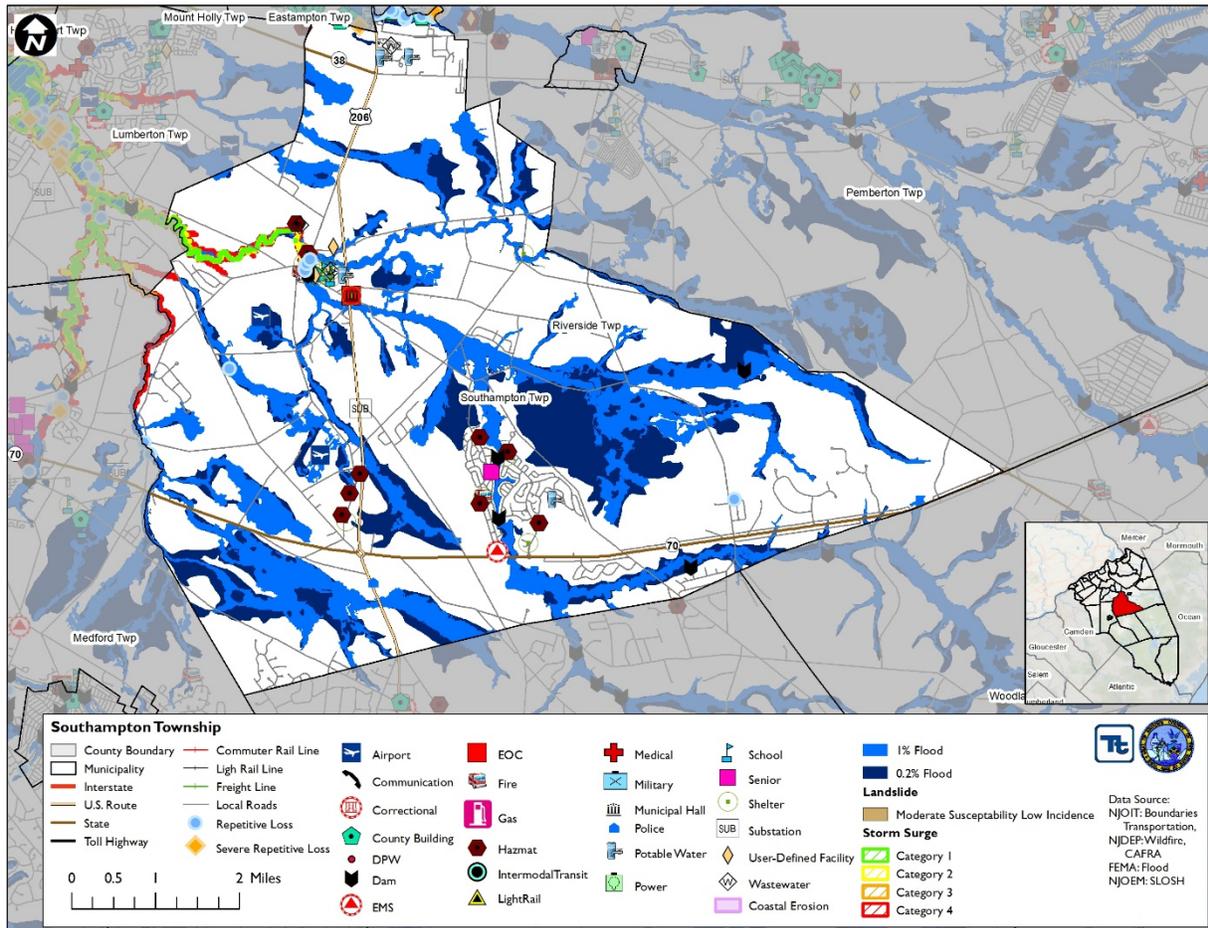
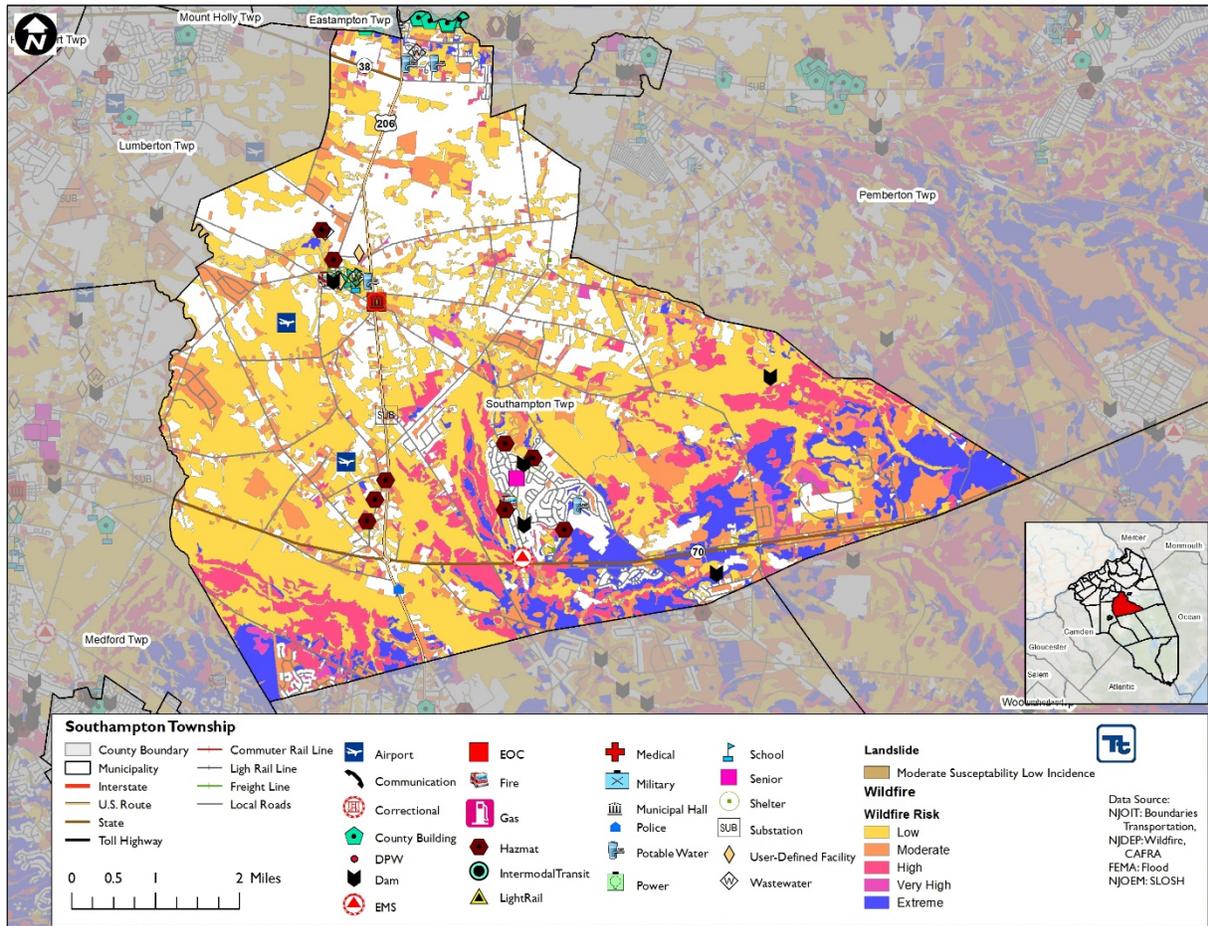




Figure 9.34-2. Township of Southampton Hazard Area Extent and Location Map 2





Action Number: SH-1 (Former SH-1)
Mitigation Action Name: Scarborough Way(Leisure Towne) Replace damaged drainage pipe and re-line. Reduce road and property flooding in that area.

Assessing the Risk	
Hazard(s) addressed:	Flood
Specific problem being mitigated:	Damaged pipe does not allow for adequate stormwater drainage.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Acquire/elevation surrounding structures impacted by flooding – May be a cost-prohibitive action. Remove all drainage infrastructure and install new infrastructure with increased storage/flow capacity - May be a cost-prohibitive action.
Action/Project Intended for Implementation	
Description of Selected Action/Project	Replacement of damage pipe will allow for stormwater to properly drain from Scarborough Way.
Mitigation Action Type	SIP
Goals Met	1, 2, 6
Critical Facility (Y/N)	No
Benefits (losses avoided)	Medium
Estimated Cost	Medium
Priority*	High
Plan for Implementation	
Responsible Organization	Township committee and Engineer
Local Planning Mechanism	Public works, hazard mitigation
Potential Funding Sources	Local 2013 Road Project
Timeline for Completion	Short
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 1/31/18 Status: Joint venture with Leisure Towne and Twp. Finance issues are being resolved.



Action Number:

SH-1 (Former SH-1)

Mitigation Action Name:

Scarborough Way(Leisure Towne) Replace damaged drainage pipe and re-line. Reduce road and property flooding in that area.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	-1	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	0	
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
Total	8	
Priority (H/M/L)	High	



Action Number:

SH-4 (Former SH-6)

Mitigation Action Name:

Rancocas Creek Watershed Management/South Branch (Between Race and Mill Streets in Vincentown portion of ST (Obtain inspection of area in regards to soil erosion undermining trees along this area. Implement removal of soil buildup in this area, enhancing safe flow of water thereby reducing threat of flood damage to homes, historical and first responder buildings. Construction of flood/retaining walls.

Assessing the Risk	
Hazard(s) addressed:	Flood
Specific problem being mitigated:	Inadequate infrastructure between Race and Mill Streets along the waterway is causing sedimentation and additional flooding issues for the area.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Acquire/elevation surrounding structures impacted by flooding – May be a cost-prohibitive action. Dredge waterway – May increase flow speeds and erosion causing more issues downstream
Action/Project Intended for Implementation	
Description of Selected Action/Project	Clear out built up soil causing runoff and water flow issues, and construction flood/retaining walls along the waterway to help keep an uninhibited flow of water.
Mitigation Action Type	SIP, NSP
Goals Met	1, 2, 4, 6
Critical Facility (Y/N)	No
Benefits (losses avoided)	High
Estimated Cost	Medium
Priority*	Medium
Plan for Implementation	
Responsible Organization	ST/DPW/Independent contractor
Local Planning Mechanism	PP, NR, ES, SP
Potential Funding Sources	Federal, State, County Grants, NFIP
Timeline for Completion	Short
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 1/31/18 Status: Stabilization along embankment was completed and has mitigated some floodwaters and erosion. Additional work is needed regarding removal of trees and debris. Township is working with County to remediate issue and to cooperatively work on this initiative.



Action Number:

SH-4 (Former SH-6)

Mitigation Action Name:

Rancocas Creek Watershed Management/South Branch (Between Race and Mill Streets in Vincentown portion of ST (Obtain inspection of area in regards to soil erosion undermining trees along this area. Implement removal of soil buildup in this area, enhancing safe flow of water thereby reducing threat of flood damage to homes, historical and first responder buildings. Construction of flood/retaining walls.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	0	
Political	1	
Legal	1	
Fiscal	-1	
Environmental	1	
Social	0	
Administrative	1	
Multi-Hazard	1	
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
Total	9	
Priority (H/M/L)	Medium	



Action Number:

SH-7 (Former SH-12)

Mitigation Action Name:

Obtain and install backup power sources at critical facilities.

Assessing the Risk	
Hazard(s) addressed:	All
Specific problem being mitigated:	Backup power to essential facilities is critical during an emergency event
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Solar panels: weather dependent and costly. Mobile generator: may lack sufficient power supply or run time.
Action/Project Intended for Implementation	
Description of Selected Action/Project	Installation of generators and backup power required to ensure the building's ability to remain functional during an event.
Mitigation Action Type	SIP
Goals Met	1, 2, 6
Critical Facility (Y/N)	Yes
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	High
Plan for Implementation	
Responsible Organization	Lead: Municipality with support from County, NJOEM and FEMA
Local Planning Mechanism	Hazard mitigation, emergency management
Potential Funding Sources	FEMA HMA with local Improvements Budget 25% cost share
Timeline for Completion	Short Term
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 1/31/18 Status: Funding not secured



Action Number:

SH-7 (Former SH-12)

Mitigation Action Name:

Obtain and install backup power sources at critical facilities

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	-1	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
Total	9	
Priority (H/M/L)	High	



Action Number:

SH-10

Mitigation Action Name:

Mitigate Pumping Stations in Vincetown Village. Install Floodwall around or elevate pump station mechanicals

Assessing the Risk	
Hazard(s) addressed:	Flooding
Specific problem being mitigated:	Pumping stations become overworked and risk failure due to increased water load from flooding.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Relocate pump station – may be a cost-prohibitive action or no feasible alternate location Increase capacity/reconstruction – major upgrades may be a cost-prohibitive action
Action/Project Intended for Implementation	
Description of Selected Action/Project	Determine feasibility for both mitigation alternatives and implement the most cost-effective solution.
Mitigation Action Type	SIP
Goals Met	1, 2, 6
Critical Facility (Y/N)	Yes
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	High
Plan for Implementation	
Responsible Organization	Municipality with support of Pinelands Wastewater Work with Pinelands Wastewater to Develop a plan to mitigate pump stations
Local Planning Mechanism	Hazard mitigation, emergency management
Potential Funding Sources	FEMA HMGP, Grants
Timeline for Completion	Short
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 5/31/18 Status: New Action



Action Number:

SH-10

Mitigation Action Name:

Mitigate Pumping Stations in Vincetown Village. Install Floodwall around or elevate pump station mechanicals

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	-1	
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	0	
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
Total	9	
Priority (H/M/L)	High	



Action Number:

SH-11

Mitigation Action Name:

Coordinate with the facility managers at County Buildings in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage.
 Phase 1: Identify most cost-effective mitigation option
 Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.

Assessing the Risk	
Hazard(s) addressed:	All Hazards
Specific problem being mitigated:	Critical facilities located in the floodplain are not only susceptible to flood damage but also create unnecessary complications for the municipality during an emergency event and post-disaster recovery.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Floodproof existing structures – May not necessarily reduce risk. Construct floodwalls to stop flood issues. – Will most likely interrupt natural floodplain function.
Action/Project Intended for Implementation	
Description of Selected Action/Project	Mitigation of critical facilities.
Mitigation Action Type	SIP
Goals Met	1, 2, 6
Critical Facility (Y/N)	Yes
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	Medium
Plan for Implementation	
Responsible Organization	Municipality with support from County
Local Planning Mechanism	Hazard mitigation, emergency management
Potential Funding Sources	HMA Grants, Municipal Budget
Timeline for Completion	Short Term, DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 5/31/18 Status: New Action



Action Number:
Mitigation Action Name:

SH-11

Coordinate with the facility managers at County Buildings in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage.
 Phase 1: Identify most cost-effective mitigation option
 Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	-1	
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	0	
Timeline	0	
Agency Champion	1	
Other Community Objectives	0	
Total	7	
Priority (H/M/L)	Medium	



Action Number:

SH-12

Mitigation Action Name:

Coordinate with the facility managers at Allen Oil in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage.
 Phase 1: Identify most cost-effective mitigation option
 Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.

Assessing the Risk	
Hazard(s) addressed:	All Hazards
Specific problem being mitigated:	Critical facilities located in the floodplain are not only susceptible to flood damage but also create unnecessary complications for the municipality during an emergency event and post-disaster recovery.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Floodproof existing structures – May not necessarily reduce risk. Construct floodwalls to stop flood issues. – Will most likely interrupt natural floodplain function.
Action/Project Intended for Implementation	
Description of Selected Action/Project	Mitigation of critical facilities.
Mitigation Action Type	SIP
Goals Met	1, 2, 6
Critical Facility (Y/N)	Yes
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	Medium
Plan for Implementation	
Responsible Organization	Municipality with support from County
Local Planning Mechanism	Hazard mitigation, emergency management
Potential Funding Sources	HMA Grants, Municipal Budget
Timeline for Completion	Short Term, DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 5/31/18 Status: New Action



Action Number:
Mitigation Action Name:

SH-12

Coordinate with the facility managers at Allen Oil in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage.

Phase 1: Identify most cost-effective mitigation option

Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	-1	
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	0	
Timeline	0	
Agency Champion	1	
Other Community Objectives	0	
Total	7	
Priority (H/M/L)	Medium	



Action Number:

SH-13

Mitigation Action Name:

Coordinate with the facility managers at Trinity Episcopal Church in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage.
 Phase 1: Identify most cost-effective mitigation option
 Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.

Assessing the Risk	
Hazard(s) addressed:	All Hazards
Specific problem being mitigated:	Critical facilities located in the floodplain are not only susceptible to flood damage but also create unnecessary complications for the municipality during an emergency event and post-disaster recovery.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Floodproof existing structures – May not necessarily reduce risk. Construct floodwalls to stop flood issues. – Will most likely interrupt natural floodplain function.
Action/Project Intended for Implementation	
Description of Selected Action/Project	Mitigation of critical facilities.
Mitigation Action Type	SIP
Goals Met	1, 2, 6
Critical Facility (Y/N)	Yes
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	Medium
Plan for Implementation	
Responsible Organization	Municipality with support from County
Local Planning Mechanism	Hazard mitigation, emergency management
Potential Funding Sources	HMA Grants, Municipal Budget
Timeline for Completion	Short Term, DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 5/31/18 Status: New Action



Action Number:
Mitigation Action Name:

SH-13

Coordinate with the facility managers at Trinity Episcopal Church in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage.
 Phase 1: Identify most cost-effective mitigation option
 Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	-1	
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	0	
Timeline	0	
Agency Champion	1	
Other Community Objectives	0	
Total	7	
Priority (H/M/L)	Medium	



Action Number:

SH-14

Mitigation Action Name:

Coordinate with the facility managers at Warren Hopely Heliport in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage.
 Phase 1: Identify most cost-effective mitigation option
 Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.

Assessing the Risk	
Hazard(s) addressed:	All Hazards
Specific problem being mitigated:	Critical facilities located in the floodplain are not only susceptible to flood damage but also create unnecessary complications for the municipality during an emergency event and post-disaster recovery.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Floodproof existing structures – May not necessarily reduce risk. Construct floodwalls to stop flood issues. – Will most likely interrupt natural floodplain function.
Action/Project Intended for Implementation	
Description of Selected Action/Project	Mitigation of critical facilities.
Mitigation Action Type	SIP
Goals Met	1, 2, 6
Critical Facility (Y/N)	Yes
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	Medium
Plan for Implementation	
Responsible Organization	Municipality with support from County
Local Planning Mechanism	Hazard mitigation, emergency management
Potential Funding Sources	HMA Grants, Municipal Budget
Timeline for Completion	Short Term, DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	



Action Number:
Mitigation Action Name:

SH-14

Coordinate with the facility managers at Warren Hopely Heliport in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage.
 Phase 1: Identify most cost-effective mitigation option
 Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	-1	
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	0	
Timeline	0	
Agency Champion	1	
Other Community Objectives	0	
Total	7	
Priority (H/M/L)	Medium	



Action Number: SH-16

Mitigation Action Name:

The Township will promote and support non-structural flood hazard mitigation alternatives for at risk properties within the floodplain, specifically those that have been identified as Repetitive Loss (RL) and Severe Repetitive Loss (SRL). At risk areas include:

- E Mae Ave
- Lenape Trail
- Cedar Water Road
- New Freedom Road
- W Mae Ave
- Crystal Ave
- Mill Street
- Race Street
- Eayrestown Road
- Main Street

Alternatives would include acquisition/relocation or elevation depending on feasibility, and the completion of initiative is dependent on funding, benefits versus cost, and willing participation of property owners.

Assessing the Risk	
Hazard(s) addressed:	Flood
Specific problem being mitigated:	Repetitively flooded properties place an undue stress on the property owner and Township and efforts should be made to mitigate them.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Construct flood walls/barriers around vulnerable areas – costly and can divert floodwaters to other areas Deployable flood barriers for vulnerable areas – Requires a great deal of work to implement prior to each event
Action/Project Intended for Implementation	
Description of Selected Action/Project	Work with owners to explore mitigation opportunities for repetitively flooded properties, and if appropriate and feasible, carry out acquisition, relocation, elevation and floodproofing measures to protect these properties.
Mitigation Action Type	SIP
Goals Met	1, 2
Critical Facility (Y/N)	No
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	High
Plan for Implementation	
Responsible Organization	Municipality with support from County
Local Planning Mechanism	Hazard mitigation, emergency management
Potential Funding Sources	Grant funding; Municipal budget
Timeline for Completion	Short



Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 5/31/18 Status: New Action



Action Number:
Mitigation Action Name:

SH-16

The Township will promote and support non-structural flood hazard mitigation alternatives for at risk properties within the floodplain, specifically those that have been identified as Repetitive Loss (RL) and Severe Repetitive Loss (SRL). At risk areas include:

- E Mae Ave
- Lenape Trail
- Cedar Water Road
- New Freedom Road
- W Mae Ave
- Crystal Ave
- Mill Street
- Race Street
- Eayrestown Road
- Main Street

Alternatives would include acquisition/relocation or elevation depending on feasibility, and the completion of initiative is dependent on funding, benefits versus cost, and willing participation of property owners.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	0	
Technical	1	
Political	1	
Legal	1	
Fiscal	-1	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	0	
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
Total	8	
Priority (H/M/L)	High	