



9.17 Village of Sag Harbor

This section presents the jurisdictional annex for the Village of Sag Harbor. It includes resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions that can be implemented prior to a disaster to reduce or eliminate damage to property and people. This annex includes a general overview of the municipality and who in the Village participated in the planning process; an assessment of the Village of Sag Harbor’s risk and vulnerability; the different capabilities utilized in the Village; and an action plan that will be implemented to achieve a more resilient community.

9.17.1 Hazard Mitigation Planning Team

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

Table 9.17-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Austin J. McGuire, Chief of Police/Emergency Manager Address: 55 Main St. P.O. Box 660 Sag Harbor, NY 11963 Phone Number: 631-725-0247 Email: amcguire@sagharborny.gov	Name/Title: Beth Kamper, Village Clerk-Administrator Address: 55 Main St. P.O. Box 660 Sag Harbor, NY 11963 Phone Number: 631-725-0222 Email: clerk@sagharborny.gov
Alternate Point of Contact	NFIP Floodplain Administrator
Name/Title: Dee Yardley, Superintendent of Public Works Address: 55 Main St. P.O. Box 660 Sag Harbor, NY 11963 Phone Number: 631-725-0107 Email: dpw@sagharborny.gov	Name/Title: Thomas Preiato, Senior Building Inspector Address: 55 Main St. P.O. Box 660 Sag Harbor, NY 11963 Phone Number: 631-725-0224 Email: tpreiato@sagharborny.gov

9.17.2 Municipal Profile

The earliest inhabitants of the Village of Sag Harbor were the Algonquin Indians. They called the Village “Weg-wag-onuch”, meaning “the land or place at the end of the hill”. At this time, the Village was made up of hills, streams, meadows and swamps. The first subdivisions of land took place in 1738 and again in 1745. From this point forward, the Village of Sag Harbor grew. The Village was incorporated on March 26, 1846. The Sag Harbor Village District, which includes the historic whaling port and writer’s colony, is listed on the National Register of Historic Places.

The Village of Sag Harbor is located in the Towns of East Hampton and Southampton. Approximately three-fifths of the Village is in Southampton and two-fifths of the Village is in East Hampton. The Village of Sag Harbor has a total area of 2.5 square miles, of which 1.7 square miles of it is land and 0.8 square miles of it is water.

The Village Government consists of a Mayor and four Trustees. The village contains its own building department, fire marshal, public works department, police department, emergency medical services, highway department, wastewater treatment plant, and fire department.

According to the U.S. Census, the 2010 population for the Village of Sag Harbor was 2,169. The estimated 2017 population was 2,184, an 0.7 percent increase from the 2010 Census. Data from the 2017 U.S. Census American Community Survey indicate that 5.0 percent of the population is 5 years of age or younger and 31.0 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.



9.17.3 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to understanding a jurisdiction’s overall risk to its hazards of concern. Table 9.16-2 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development. The figures at the end of this annex illustrate the geographically-delineated hazard areas and the location of potential new development, where available. The recent and anticipated development depicted on these figures excludes the Suffolk County wastewater upgrades; refer to Section 4 (County Profile) for additional information on this development.

Table 9.17-2. Recent and Expected Future Development

Type of Development	2014		2015		2016		2017		2018		2019	
Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	11	2	14	1	9	1	15	1	10	0	17	4
Multi-Family	0	0	0	0	0	0	0	0	0	0	0	0
Other (commercial, mixed-use, etc.)	0	0	0	0	0	0	0	0	1	1	2	1
Total Permits Issued	11	2	14	1	9	1	15	1	11	1	19	5
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
Recent Major Development and Infrastructure from 2015 to Present												
None identified												
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years												
None anticipated												

SFHA Special Flood Hazard Area (1% flood event)

* Only location-specific hazard zones or vulnerabilities identified.

9.17.4 Capability Assessment

The Village of Sag Harbor performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Section 5 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. This section summarizes the following findings of the assessment:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Information on National Flood Insurance Program (NFIP) compliance.
- Classification under various community mitigation programs.
- The community’s adaptive capacity for the impacts of climate change.



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, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress in plan integration. Areas with current mitigation integration are summarized in Capability Assessment (Section 9.16.4). The Village of Sag Harbor identified specific integration activities that will be incorporated into municipal procedures are included in the updated mitigation strategy. Appendix G provides the results of the planning/policy document review and the answers to integration survey questions.

Planning, Legal, and Regulatory Capability

The table below summarizes the regulatory tools that are available to the Village of Sag Harbor and where hazard mitigation has been integrated.

Table 9.17-3. Planning, Legal, and Regulatory Capability

	Do you have this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible	State Mandated	Has this been integrated?	
						Yes	If no - can it be a mitigation action?
Codes, Ordinances, & Requirements							
Building Code	Yes	Building Construction Code, Chapter 92; Fire Prevention, Chapter 138, Village Code	Local	Building Inspector	Yes	Yes	-
Comment: The Building Construction Code regulates construction in the Village. The Fire Prevention Code provides the basic method for administration and enforcement of the State Fire Prevention Code and the standards of the National Fire Protection Association in the Village of Sag Harbor and shall establish powers, duties and responsibilities in connection therewith.							
Zoning Code	Yes	Ch. 300, 5/09	Local	Planning Board	No	Yes	-
Comment: Chapter 300 regulates development in the Village.							
Subdivisions	Yes	Subdivision of Land, Chapter 240, Village Code	Local	Planning Board	No	Yes	-
Comment: Chapter 240 regulates subdivision of land within the Village.							
Stormwater Management	Yes	Stormwater Management, Chapter 232, Village Code	Local	Building Dept.	Yes	Yes	-
Comment: The purpose of this chapter is to establish minimum stormwater management requirements and controls to protect and safeguard the general health, safety and welfare of the public residing within this jurisdiction and to address the findings of fact in § 232-1 hereof. This chapter seeks to meet those purposes by achieving the following objectives: <ul style="list-style-type: none"> A. Meet the requirements of minimum measures 4 and 5 of the SPDES general permit for stormwater discharges from municipal separate stormwater sewer systems (MS4s), Permit No. GP-02-02, or as amended or revised; B. Require land development activities to conform to the substantive requirements of the New York State Department of Environmental Conservation State Pollutant Discharge Elimination System (SPDES) general permit for construction activities, GP-02-01, or as amended or revised; C. Minimize increases in stormwater runoff from land development activities in order to reduce flooding, siltation, increases in stream temperature, and stream bank erosion and maintain the integrity of stream channels; D. Minimize increases in pollution caused by stormwater runoff from land development activities which would otherwise degrade local water quality; E. Minimize the total annual volume of stormwater runoff which flows from any specific site during and following development to the maximum extent practicable; and F. Reduce stormwater runoff rates and volumes, soil erosion and nonpoint-source pollution, wherever possible, through stormwater management practices and to ensure that these management practices are properly maintained and eliminate threats to public safety. 							
Post-Disaster Recovery	No	-	-	-	No	-	-



	Do you have this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible	State Mandated	Has this been integrated?	
						Yes	If no - can it be a mitigation action?
Comment:							
Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent	Yes	Yes	-
Comment:							
Growth Management	No	-	-	-	No	-	-
Comment:							
Site Plan Review	Yes	Ch. 300-14 5/09	Local	Building Dept.	No	Yes	-
Comment: Site plan review is discussing in Chapter 300, Zoning.							
Environmental Protection	Yes	Environmental Quality Review, Chapter 125; Waterways Chapter 278; Wetlands, Chapter 285 Village Code	Local	Various Depts.	Yes	Yes	-
Comment: Chapter 125: The purpose of this chapter is to implement, for the Village of Sag Harbor, the provisions of the State Environmental Quality Review Act and the State Environmental Quality Review Regulations, thereby incorporating environmental factors into local planning and decision-making processes.							
Flood Damage Prevention	Yes	Ch. 300-16, Tidal Flood Hazard Overlay District, 9/09 State mandated BFE+2 for all construction	Local	Building Inspector	Yes - BFE+2 feet for all construction in the SFHA (residential and non-residential)	Yes	-
<p>Comment: It is the purpose of this article 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:</p> <ol style="list-style-type: none"> (1) Regulate uses which are dangerous to health, safety and property due to water or erosion hazards or which result in damaging increases in erosion or in flood heights or velocities; (2) Require that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction; (3) Control the alteration of natural floodplains, stream channels, and natural protective barriers which are involved in the accommodation of floodwaters; (4) Control filling, grading, dredging and other development which may increase erosion or flood damages; (5) Regulate the construction of flood barriers which will unnaturally divert floodwaters or which may increase flood hazards to other lands; and (6) Qualify and maintain for participation in the National Flood Insurance Program. 							
Municipal Separate Storm Sewer System (MS4)	Yes	Storm Sewers, Chapter 230; Sewers Code, Chapter 220 Village Code	Local	Stormwater Management Officer	Yes	Yes	-
<p>Comment: The purpose of this chapter is to establish minimum stormwater management requirements and controls to protect and safeguard the general health, safety, and welfare of the public residing within this jurisdiction and to address the findings of fact in § 216-1.1 hereof. This chapter seeks to meet those purposes by achieving the following objectives:</p> <ol style="list-style-type: none"> A. Meet the requirements of minimum measures 4 and 5 of the SPDES general permit for stormwater discharges from municipal separate stormwater sewer systems (MS4s), Permit no. GP-02-02 or as amended or revised; B. Require land development activities to conform to the substantive requirements of the New York State Department of Environmental Conservation State Pollutant Discharge Elimination System (SPDES) general permit for construction activities GP-02-01 or as amended or revised; C. Minimize increases in stormwater runoff from land development activities in order to reduce flooding, siltation, increases in stream temperature, and streambank erosion and maintain the integrity of stream channels; D. Minimize increases in pollution caused by stormwater runoff from land development activities which would otherwise degrade local water quality; 							



	Do you have this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible	State Mandated	Has this been integrated?	
						If no - can it be a mitigation action?	
<p>E. Minimize the total annual volume of stormwater runoff which flows from any specific site during and following development to the maximum extent practicable; and F. Reduce stormwater runoff rates and volumes, soil erosion and nonpoint source pollution, wherever possible, through stormwater management practices and to ensure that these management practices are properly maintained and eliminate threats to public safety.</p> <p>Chapter 220: Pursuant to the authority of § 14-1400 of the Village Law, as amended as of the effective date of this chapter, there is established a sewerage system, the bounds of which shall coincide with the corporate limits of the Village and which shall extend over and include all premises within the Incorporated Village of Sag Harbor. The sewerage system shall consist of using premises, all premises serviced by private on-site wastewater disposal systems, and all undeveloped premises within the Village.</p>							
Emergency Management	No	-	-	-	Yes	-	-
Comment:							
Climate Change	No	-	-	-	Yes	-	-
Comment:							
Disaster Recovery Ordinance	No	-	-	-	No	-	-
Comment:							
Disaster Reconstruction Ordinance	No	-	-	-	No	-	-
Comment:							
On-Site Wastewater Disposal Systems	Yes	On-Site Wastewater Disposal Systems, Chapter 184, Village Code	Local	Sanitation Inspector	No	Yes	-
<p>Comment: The Village of Sag Harbor hereby finds that it is necessary to the health, safety and welfare of the residents of the Village of Sag Harbor that on-site sanitary systems operate and be maintained in a manner that will prevent, to the extent possible, hazards to the public health, to minimize their potential for failure and to protect the drinking water supply of the Village of Sag Harbor.</p>							
Nuclear Facilities and Products	Yes	Nuclear Facilities and Products, Chapter 176, Village Code	Local	Village Board of Trustees	No	Yes	-
<p>Comment: The Village Board hereby declares the Village of Sag Harbor to be a nuclear-free community. As a result of numerous public meetings held on eastern Long Island, the Village Board finds that the residents of the Village have demonstrated legitimate public safety concerns with regard to the operation of the nuclear electric generating facilities in the nearby State of Connecticut. Along with this existing threat, Long Islanders did absorb large electric rates so that Shoreham Nuclear Power Plant would be shut down, thus demonstrating further opposition to nuclear activities. Finally, local opposition to the operation of the high flux beam reactor (HFBR) at the Brookhaven National Laboratory resulted in a decision by the federal government not to restart this nuclear reactor. Because of this consensus of opposition to nuclear power facilities, the Village seeks to adopt a law that declares the Village to be a nuclear-free community.</p>							
Bulkheading, Dredging and Canals	Yes	Building, Dredging and Canals, Chapter 107, Village Code	Local	Village Board of Trustees	No	Yes	-
<p>Comment: Because the erection of bulkheading, docks, wharfs and piers into or along natural bodies of water and the dredging of natural bodies of water and the digging of canals extending the flow of natural bodies of water and the filling in of lands along the shoreline and in the tidal wetlands all have ecological consequences, it is hereby declared to be the policy of the Village Board of Sag Harbor to regulate, by permit, whether and to what extent the above activities may be carried out.</p>							
Planning Documents							
Comprehensive Plan	Yes	Comprehensive Plan	Local	Board of Trustees	No	No	-
Comment: The Comprehensive Plan was last updated in 2008.							
Capital Improvement Plan	No	-	-	-	No	-	-



	Do you have this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible	State Mandated	Has this been integrated?	
						If no - can it be a mitigation action?	
Comment:							
Disaster Debris Management Plan	Yes	Suffolk County Multi-Jurisdictional Debris Management Plan	County, Local	Disaster Debris Management Plan	No	Suffolk County Multi-Jurisdictional Debris Management Plan	County, Local
Comment: This NYS and FEMA approved comprehensive Multi-Jurisdictional Debris Management Plan was developed through the cooperative efforts of Suffolk County and each of the ten (10) Towns, working together in conjunction with partners from private, state and federal agencies.							
Floodplain or Watershed Plan	Yes	Local Waterfront Revitalization Plan	Local	Environmental Consultant and LWRP update advisory committee.	No	Yes	-
Comment: The Village of Sag Harbor is currently working on update to the LWRP. The LWRP Advisory Committee includes local businesses, government officials, and environmental consultants.							
Stormwater Plan	Yes	Village Stormwater Management Plan, 2019	Local	Public Works, supported by Building Department	No	Yes	-
Comment: The Village has a Stormwater Management Plan which was last updated in 2019.							
Open Space Plan	No	-	-	-	Yes	-	-
Comment:							
Urban Water Management Plan	No	-	-	-	No	-	-
Comment:							
Habitat Conservation Plan	No	-	-	-	No	-	-
Comment:							
Economic Development Plan	No	-	-	-	No	-	-
Comment:							
Shoreline Management Plan	Yes	Local Waterfront Revitalization Plan	Local	Environmental Consultant and LWRP update advisory committee.	Yes	Yes	-
Comment: The Village of Sag Harbor is currently working on update to the LWRP. The LWRP Advisory Committee includes local businesses, government officials, and environmental consultants.							
Community Wildfire Protection Plan	No	-	-	-	No	-	-
Comment:							
Forest Management Plan	No	-	-	-	No	-	-
Comment:							
Transportation Plan	No	-	-	-	No	-	-



	Do you have this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible	State Mandated	Has this been integrated?	
						If no - can it be a mitigation action?	
Comment:							
Agriculture Plan	No	-	-	-	Yes	-	-
Comment:							
Other (this could include a climate action plan, tourism plan, business development plan, etc.)	No	-	-	-	No	-	-
Comment:							
Response/Recovery Planning							
Comprehensive Emergency Management Plan	Yes	Suffolk County Comprehensive Emergency Management Plan (2018)	Suffolk County and Associated Jurisdictions	Suffolk FRES	Yes	Yes	-
<p>Comment: The County Comprehensive Emergency Management Plan (CEMP) describes the emergency obligations of County government and its capability and capacity to undertake emergency assignments or acquire those resources necessary to support its emergency mission. The Concept of Operations of the CEMP describes the management of emergencies within the National Incident Management System (NIMS) and details emergency management programmatic efforts to accommodate present standards.</p> <p>The Village also has had a village specific plan in the past.</p>							
Strategic Recovery Planning Report	No	-	-	-	No	-	-
Comment:							
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-	Yes	-	-
Comment:							
Post-Disaster Recovery Plan	No	-	-	-	No	-	-
Comment:							
Continuity of Operations Plan	Yes	Village of Sag Harbor Comprehensive Emergency Management Plan	Local	Emergency Management	No	Yes	-
<p>Comment: The Village specific comprehensive emergency management plan includes continuity of operations.</p>							
Public Health Plan	No	-	-	-	No	-	-
Comment:							
Other	No	--	-	-	No	-	-
Comment:							



Table 9.17-4. Development and Permitting Capability

Indicate if your jurisdiction implements the following	Response Yes/No; Provide further detail
Development Permits. If yes, what department?	Yes, Building Department
Permits are tracked by hazard area. For example, floodplain development permits.	Yes
Buildable land inventory If yes, please describe If no, please quantitatively describe the level of buildout in the jurisdiction.	Yes

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Village of Sag Harbor.

Table 9.17-5. Administrative and Technical Capabilities

Resources	Available? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	Yes	Planning Board
Mitigation Planning Committee	No	-
Environmental Board/Commission	Yes	Environmental Advisory Committee and Harbor Committee
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Warning Systems / Services (reverse 911, outdoor warning signals)	Yes	CodeRED, social media, radio, website
Maintenance programs to reduce risk	Yes	Tree trimming and stormwater clearing
Mutual aid agreements	Yes	Fire and Ambulance with North Haven (Fire Protection District), Suffolk County Law Enforcement Mutual Aid Agreement.
Technical/Staffing Capability		
Planners or engineers with knowledge of land development and land management practices	Yes	Rich Warren
Engineers or professionals trained in building or infrastructure construction practices	Yes	Building Inspector
Planners or engineers with an understanding of natural hazards	No	Rich Warren
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Scientist familiar with natural hazards	No	-
NFIP Floodplain Administrator (FPA)	Yes	Building Inspector (Thomas Preiato)
Surveyor(s)	No	-
Emergency Manager	Yes	Chief of Police, Austin J. McGuire
Grant writer(s)	No	-
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-



Fiscal Capability

The table below summarizes financial resources available to the Village of Sag Harbor.

Table 9.17-6. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvements project funding	No
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	Wastewater treatment plant fee for users on the system
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	Yes
Open Space Acquisition funding programs	Yes, Town of Southampton Community Preservation Fund recently purchased a 1.25 acre waterfront property
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	Yes, Beach and Marina Recreational Fees, Rain Gardens, Permeable Pavement, Pequannock Estuary Program funds for rain gardens

Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Village of Sag Harbor.

Table 9.17-7. Education and Outreach Capabilities

Indicate if your jurisdiction has the following resources	Yes/No; Please describe
Public information officer or communications office?	Yes
Personnel skilled or trained in website development?	Yes
Hazard mitigation information available on your website; if yes, describe	Yes
Social media for hazard mitigation education and outreach; if yes, briefly describe.	Facebook
Citizen boards or commissions that address issues related to hazard mitigation; if yes, briefly describe.	Yes, LWRP, Harbor Committee
Other programs already in place that could be used to communicate hazard-related information; if yes, briefly describe.	LWRP outreach
Warning systems for hazard events; if yes, briefly describe.	CodeRED, social media, radio, website
Natural disaster/safety programs in place for schools; if yes, briefly describe.	County provides the Learning for Life program for schools
Other	No

Community Classifications

The table below summarizes classifications for community programs available to the Village of Sag Harbor.





Table 9.17-8. Community Classifications

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	NP	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	Yes	99/99	2016
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	03/3Y	2014
NYSDEC Climate Smart Community	NP	-	-
Storm Ready Certification	NP	-	-
Firewise Communities classification	NP	-	-
Other	NP	-	-

Note:

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

Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). In other words, it describes a jurisdiction’s current ability to adjust to, protect from, or withstand a hazard event. This term is often discussed in reference to climate change; however, adaptive capacity also includes an understanding of local capacity for adapting to current and future risks and changing conditions. The table below summarizes the adaptive capacity for each hazard and the jurisdiction’s rating.

Table 9.17-9. Adaptive Capacity

Hazard	Adaptive Capacity (Capabilities) - High/Medium/Low*
Coastal Erosion	Medium
Cyber Security	Medium
Disease Outbreak	Medium
Drought	Medium
Earthquake	Medium
Expansive Soils	Medium
Extreme Temperature	Medium
Flood	Medium
Groundwater Contamination	Medium
Hurricane	Medium
Infestation and Invasive Species	Medium
Nor’Easter	Medium
Severe Storm	Medium
Severe Winter Storm	High
Shallow Groundwater	Medium
Wildfire	Medium

- *High Capacity exists and is in use
- Medium Capacity may exist; but is not used or could use some improvement
- Low Capacity does not exist or could use substantial improvement
- Unsure Not enough information is known to assign a rating

The Village reaches out to the environmental consultants it uses for environmental issues to determine the possible impacts of climate change upon the municipality. The Village administration is supportive of integrating climate change in policies and actions. Climate change is already being integrated into current policies/plans or actions





(projects/monitoring) within the municipality. The Village has used the following strategies: rain gardens, permeable pavers, Haven Beach smart sponges (for pollutant removal).

9.17.5 National Flood Insurance Program

This section provides specific information on the management and regulation of the regulatory floodplain.

NFIP Floodplain Administrator (FPA)

Thomas Preiato, Building Inspector

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Village of Sag Harbor.

Table 9.17-10. NFIP Summary

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties
Village of Sag Harbor	366	130	\$1,923,315	14

Source: FEMA 2020

Notes: According to FEMA statistics as of 7/13/2020

RL Repetitive Loss

Flood Vulnerability Summary

The Village of Sag Harbor does not maintain a list of properties that have been damaged by flooding or homeowners interested in flood mitigation. There are no RiskMAP projects currently underway in the Village. For Substantial Damage determinations, the Village uses FEMA guidelines and appraisals. No Substantial Damage determinations have been declared for recent flood events and no properties have been mitigated recently.

Resources

The community FDPO identifies the Building Inspector as the local NFIP Floodplain Administrator, currently Thomas Preiato. Floodplain administration is an auxiliary duty and Mr. Preiato is not a certified floodplain manager. Duties and responsibilities of the NFIP Administrator are permit review and inspections. It is the NFIP Administrator’s duty to ensure permit applications include elevations and current survey, cost of construction, and elevation certificate. Staffing is the biggest barrier to running an effective floodplain management program in the Village of Sag Harbor and the Floodplain Administrator

Compliance History

Village of Sag Harbor joined the NFIP on January 5, 1978 and is currently an active member of the NFIP. The current effective Flood Insurance Rate Maps are dated September 25, 2009. The community is currently in good standing in the NFIP and has no outstanding compliance issues. Village of Sag Harbor has completed Community Assistance Visits (CAV), with the most recent visit completed on March 3, 2020.

Regulatory

The community Flood Damage Prevention Ordinance (FDPO), found at Chapter 300-16 of the local code, was last updated in September of 2009. Minimum FEMA and New York State floodplain management requirements are met by the Village of Sag Harbor. When reviewing permit applications elevation certificates, cost of construction, and a current survey must be provided.



Community Rating System

The Village of Sag Harbor does not participate in the Community Rating System. Additional training and information regarding both floodplain management and Community Rating System (CRS) are welcome.

9.17.6 Integration with Other Planning Initiatives

As this HMP update is implemented, the Village of Sag Harbor will use information from the plan as the best available science and data for natural hazards. The capability assessment presented in this annex identifies codes, plans, and programs that provide opportunities for integration. The Suffolk County and local action plans developed for this HMP update actions related to plan integration, as well as progress on these actions, will be reported through the progress reporting process described in Volume I. New opportunities for integration also will be identified as part of the annual progress report.

Existing Integration

It is the intention of this municipality to incorporate hazard mitigation planning and natural hazard risk reduction as an integral component of ongoing municipal operations. The following textual summary and table identify relevant planning mechanisms and programs that have been/will be incorporated into municipal procedures, which may include former mitigation initiatives that have become continuous/on-going programs and may be considered mitigation “capabilities”:

- **Building Department:** The office of the building department encompasses all of the traditional roles performed by a building inspector which include:
 - Issuance of Building Permits, Electric Work Applications and Sign Permits and the associated inspections for the same.
 - Issuance of Demolition Permits
 - Issuance of Certificates of Occupancy or Compliance
 - Enforcement of Building and Zoning Codes
 - The building department addresses all zoning and planning questions.
- **Code Enforcement:** The office of Code Enforcement is responsible for enforcing the Sag Harbor Village Code and the New York State Uniform Fire Prevention and Building Code. The Code Enforcement Officer must conduct periodic inspections of commercial premises and multi-family dwellings in accordance with 19 NYCRR Part 1203.3(h). The Town of East Hampton Fire Marshal will conduct fire origin and cause investigations in the Village of Sag Harbor when requested to do so by the Fire Chief pursuant to General Municipal Law 204-D. Each year, the Town of East Hampton Fire Marshal's Office, conducts a fire prevention program for the Sag Harbor Elementary School in the Village of Sag Harbor. Each class receives a presentation on the principles of fire prevention and how to recognize hazards.
- **Public Works:** The Department of Public Works maintains property owned by the Village. It also provides services for the well-being and convenience of Village residents. Furthermore, the Department of Public Works maintains all fire, police, and public works vehicles and equipment.
- **Wastewater Treatment Plant:** The wastewater treatment plant is operated under the supervision of the Department of Public Works. The wastewater treatment plant was constructed in the early 1970's to eliminate the sewage from entering directly into the bay. It was designed as an extended aeration style process plant, using chlorine to kill bacteria before entering the bay.



- **Village Website:** The Village of Sag Harbor hosts a Village website (<http://sagharborny.gov/>) which hosts various information on hazard events, community events, Village departments, the Village code, and other information.
- **Emergency Management Planning:** The village intends to continue to develop, enhance and implement existing emergency plans, incorporating the findings and recommendations of this hazard mitigation plan.
- **GIS, Data Collection and Management Programs:** The Village intends to develop a data collection and organization program to improve the documentation of hazard events. This may include recording high-water marks, documenting beach erosion, compiling and archiving loss data. Further, the Village intends to develop and implement a program to collect vulnerable population and (add other types of data), consistent with the Town and Village of East Hampton, and convert into more widely useable and distributable forms, including GIS and electronic spreadsheet (Excel) formats. This effort will be coordinated with Town of East Hampton and Village of East Hampton to develop consistent, comprehensive datasets. Such data will directly support land use planning, vulnerability assessment, and mitigation project identification, evaluation and implementation.

Opportunities for Future Integration

None identified.

9.17.7 Evacuation, Sheltering, Temporary Housing, and Permanent Housing

Evacuation routes, sheltering measures, temporary housing, and permanent housing must all be in place and available for public awareness to protect residents, mitigate risk, and relocate residents, if necessary, to maintain post-disaster social and economic stability.

Evacuation Routes

During evacuation, the Village of Sag Harbor would utilize State Route 114 to direct residents west towards Southampton.

Sheltering

The Village of Sag Harbor has an agreement with the Sag Harbor Union Free School District to provide a shelter. This would be open by the Village and run by the Suffolk County Sheriff’s Office.

Shelter Name	Address	Capacity	Accommodates Pets?	ADA Compliant?	Backup Power?	Types of Medical Services Provided	Other Services Provided
Pierson High School	200 Jerman Ave. Sag Harbor, NY	1080	Yes	Yes	Yes	BLS	None

Temporary Housing

Jurisdictions must identify sites for the placement of temporary housing units to house residents displaced by a disaster. The Village of Sag Harbor has identified 26 acres of property at 1301 Bridgehampton Sag Harbor Turnpike as a potential site for temporary housing. The site has utilities available for hookup.



Permanent Housing

The Village has a buildable lands inventory which could be used to identify potential locations for the placement of permanent housing when relocating homes outside of the floodplain.

9.17.8 Hazard Event History Specific to the Village of Sag Harbor

Suffolk County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5 (Risk Assessment) 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. The Village of Sag Harbor’s history of federally-declared (as presented by FEMA) and significant hazard events (as presented in NOAA-NCEI) is consistent with that of Suffolk County. Table 9.16-11 provides details regarding municipal-specific loss and damages the Village experienced during hazard events. Information provided in the table below is based on reference material or local sources. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.17-11. Hazard Event History

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
February 8 – 9, 2013	Severe Winter Storm and Snowstorm (FEMA DR-4111)	Yes	Low pressure that formed along the northern Gulf coast by the morning of Thursday, February 7, 2013 moved northeast to near Cape Hatteras by the morning of Friday, February 8, 2013. The low then rapidly intensified while moving northeast to a position east of Cape Cod by the morning of Saturday, February 9, 2013, producing very heavy snowfall and blizzard conditions across central and eastern Long Island on February 8th and 9th, and winter storm conditions across the rest of southeast New York.	Public works required overtime for snow clearing.
September 2013	Heavy Rainfall, Flash Flooding	No	Heavy rainfall resulted in flooding. 6 inches of rain fell in five hours.	Hempstead Street experienced heavy flooding. A basement was flooded. A culvert had to be replaced
August 10, 2016	Lightning, Thunderstorm Wind	No	A trough of low pressure helped trigger isolated severe storms, which impacted Suffolk County. This storm produced a tornado.	A house was struck by lightning on Union Street, between Madison and Division Streets in Sag Harbor, resulting in a fire resulting in \$25K in property damage.
January 23, 2017	Strong Wind	No	Deep low pressure passed south and east of Long Island	Sag Harbor observed a wind gust of 57 mph at 549 pm on the 23rd. Southeast Suffolk reported \$100K in property damage.
February 9, 2017	Winter Storm, Blizzard	No	Low pressure developed along a cold front over the Middle Atlantic early Thursday, February 9th. The low rapidly intensified as it moved off the Delmarva coast in the morning and then to the	Trained spotters and the Public reported 10 to 13 inches of snowfall. Winds also gusted to 50 mph at Sag Harbor at 1:00 pm, and



Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
			<p>south and east of Long Island late morning into the afternoon. The low brought blizzard conditions to Long Island and portions of the Lower Hudson Valley. Heavy snow and strong winds also occurred over the New York City Metro.</p> <p>The blizzard brought delays and cancellations to the regions transportation systems as well as numerous accidents on roadways. The Long Island Railroad had system wide delays and at least 20 trains were cancelled. Several hundred rescues were performed by police and fire departments on Long Island.</p>	to 45 mph at Orient at 12:05 pm. Employee overtime was required for storm cleanup.
March 14 – 15, 2017	Severe Winter Storm and Snowstorm (FEMA DR-4322)	Yes	On Tuesday, March 14th, rapidly deepening low pressure tracked up the eastern seaboard resulting in damaging winds in Suffolk County.	Although the County was impacted, the Village did not report impacts.

Notes:

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

9.17.9 Hazard Ranking and Jurisdiction-Specific Vulnerabilities

The hazard profiles in Section 5 (Risk Assessment) of this plan have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes critical facility and community lifeline flood exposure, and the hazards of greatest concern and risk to the Village of Sag Harbor For additional vulnerability information relevant to this jurisdiction, refer to Section 5.

A gradient of certainty was developed to summarize the confidence level regarding the input used to populate the hazard ranking. A certainty factor of high, medium or low was selected and assigned to each hazard to provide a level of transparency and create increased understanding of the data used to support the resulting ranking. The following scale was used to assign a certainty factor to each hazard:

- High—Defined scenario/event to evaluate; probability calculated; evidenced-based/quantitative assessment to estimate potential impacts through hazard modeling.
- Moderate—Defined scenario/event or only a hazard area to evaluate; estimated probability; combination of quantitative (exposure analysis, no hazard modeling) and qualitative data to estimate potential impacts.
- Low—Scenario or hazard area is undefined; there is a degree of uncertainty regarding event probability; majority of potential impacts are qualitative.

Critical Facilities

New York Department of Environmental Conservation (DEC) Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a Special Flood Hazard Area (SFHA) unless constructed





according to specific mitigation specifications, including being raised 2' above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, the State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 500-year flood event, or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities and community lifelines located in the 1-percent and 0.2-percent floodplain. It also summarizes if the facility is already mitigated in compliance with NYS standards (i.e., to the 0.2-percent annual chance event or worse-case scenario), or if a new mitigation action is proposed in the plan update.

Table 9.17-12. Potential Flood Losses to Critical Facilities

Name	Type	Exposure			Complies with NYS Standards	Addressed by Proposed Action
		1% Event		0.2% Event		
		A-Zone	V-Zone			
Legislators William Jones & George Guldi*	County Building	-	-	X	Yes	-
Sag Harbor FD STA1*	Fire/EMS	-	-	X	No	2020-Sag Harbor-007
Sag Harbor FD STA2*	Fire/EMS	-	-	X	No	2020-Sag Harbor-007
Sag Harbor Post Office*	Post Office	X	-	X	Unknown	2020-Sag Harbor-006
Police Booth*	County Building	X	-	X	Unknown	2020-Sag Harbor-006
Legislators Jones/Thiele*	County Building	X	-	X	Unknown	2020-Sag Harbor-006
Washington Street*	Transportation	-	-	X	Yes	-
Sag Harbor Village*	Wastewater	X	-	X	No	2020-Sag Harbor-003
Sag Harbor Village*	Wastewater	X	-	X	No	2020-Sag Harbor-003

Source: Suffolk County 2020; FEMA 2009

Notes: x = Facility is located in the floodplain boundary.

*Community Lifeline

Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Section 5 (Risk Assessment) of the plan. The ranking process involves an assessment of the likelihood of occurrence for each hazard, along with its potential impacts on people, property, and the economy as well as community capability and changing future climate conditions. This input supports the mitigation action development to target those hazards with highest level of concern.



As discussed in Section 5.3 (Hazard Ranking), each participating jurisdiction may have differing degrees of risk exposure and vulnerability compared to Suffolk County as a whole. Therefore, each municipality ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential hazards for the Village of Sag Harbor. The Village of Sag Harbor has reviewed the county hazard risk/vulnerability risk ranking table and provided input to its individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Village of Sag Harbor indicated the following:

- The Village agreed with the calculated hazard rankings.

Table 9.17-13. Hazard Ranking

Coastal Erosion Medium	Cyber Security Medium	Disease Outbreak Medium	Drought Low	Earthquake Medium	Expansive Soils Low
Extreme Temperature Medium	Flood High	Groundwater Contamination Medium	Hurricane High	Infestation and Invasive Species Medium	Nor'Easter High
	Severe Storm Medium	Severe Winter Storm Medium	Shallow Groundwater Low	Wildfire Medium	

Identified Issues

The municipality has identified the following vulnerabilities within their community:

- Wastewater Treatment Plant is near the water and roadways leading to it are flood prone

Localized drainage problems are noted in the following areas. These areas have already been mitigated with stormwater improvements but due to their low elevation, they are likely to remain flood prone:

- Havens Beach
- Rogers Street
- Spring Street and Garden Street
- Spring Street and Bridge Street
- Long Island Avenue
- Bay Street
- Hempstead Street
- Latham and Division
- Redwood area

Specific areas of concern based on resident response to the Suffolk County Hazard Mitigation Citizen survey include:

- Local streets between Sag Harbor and Southampton, Brick Kiln Road, Scuttle Hole Road, Upper Pond, Lower Pond, Head of Pond, all flood during long duration rains. Widow Gavits Road floods after each rainfall and lacks proper drainage.

9.17.10 Mitigation Strategy and Prioritization





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

Past Mitigation Initiative Status

The following table indicates progress on the community’s mitigation strategy identified in the 2014 HMP. Actions that are carried forward as part of this plan update are included in the updated mitigation strategy table (Table 9.17-15). 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.

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Table 9.17-14. Status of Previous Mitigation Actions

Project #	Project Name	Hazard (s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in 2020 HMP or Discontinue 2. If including action in the 2020 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost	Level of Protection	
VSH-1	<p>Localized Flood Mitigation. The Village’s contract engineers (D&B Engineers) recently completed an engineering study and identified a number of alternatives to mitigate periodic flood conditions at four locations in the Village, specifically:</p> <ul style="list-style-type: none"> Rogers Street, between Latham Street and Henry Street Hempstead Street near the intersection with Liberty Street The intersection of Spring Street and Garden Street Redwood road sections <p>The Village, and with their contract engineers, intend to continue to evaluate these alternatives, and implement as technically feasible and as funding is secured. The Village will work to pursue funding to implement eligible projects identified in the study, including related initiatives below. The Village notes that they may</p>	Flood (incl. Hurricane, Nor’Easter, Severe Storm)	Engineering (Village and contractual)		In Progress			<ol style="list-style-type: none"> 1. Include in 2020 HMP 2. 3.



	work to implement discrete mitigation projects identified in this study as complete implementation may be infeasible both technically and/or fiscally.							
VSH-2 (Sandy HMGP LOI #1404/#2311)	Sag Harbor Village Stormwater Improvements	Flooding, Hurricane, Nor'Easters, Severe Storms, Severe Winter Storm, Shallow Groundwater	Village of Sag Harbor: Beth Kamper, Village Clerk		In Progress	Cost Level of Protection Damages Avoided; Evidence of Success		1. Include in 2020 HMP 2. 3.
VSH-3	Investigate potential solutions to mitigate the flooding problems at the bridge on Redwood and approaches; and implement identified mitigation project(s) as funding is secured. Elevation of the bridge has been considered, however it is noted that Glovers Street and portions of West Water Street would likely need to be elevated as well. See also VSH-1 above.	Flood (incl. Hurricane, Nor'Easter, Severe Storm)	Engineering (Village and contractual)		In Progress	Cost Level of Protection Damages Avoided; Evidence of Success		1. Include in 2020 HMP 2. 3.
VSH-4	Investigate the feasibility of extending the sewer system east down Bay Street to eliminate overflow of residential septic systems vulnerable to storm surges. Implement engineered mitigation project(s) as funding is secured.	Flood, Hurricane, Nor'Easter, Severe Storm, Shallow Groundwater	Engineering (Village and contractual)		In Progress	Cost Level of Protection Damages Avoided; Evidence of Success		1. Include in 2020 HMP 2. 3.
VSH-5 (former)	Where appropriate, support retrofitting, purchase, or relocation of structures located in hazard-prone areas to protect structures from	Flood, Coastal Erosion, Hurricane, Nor'Easter, Severe	Village Engineering via NFIP FPA) with NYSOEM, FEMA		In Progress	Cost Level of Protection Damages Avoided;		1. Include in 2020 HMP 2.



VSH-1)	future damage with repetitive loss and severe repetitive loss properties as priority.	Storm, Wildfire, Winter Storm	support			Evidence of Success		3.
VSH-6 (former VSH-7 and VSH-8)	<p>Support and participate in county led initiatives intended to build local and regional mitigation and risk-reduction capabilities (see Section 9.1), specifically:</p> <ul style="list-style-type: none"> Mitigation Education for Natural Disasters (natural hazard awareness and personal scale risk reduction/mitigation on public education and outreach program) Build Local Floodplain Management and Disaster Recovery Capabilities (enhanced floodplain management, and post-disaster assessment and recovery capabilities) Jurisdictional Knowledge of Mitigation Needs of Property Owners (improved understanding of damages and mitigation interest/activity of private property owners) Create a Multi-Jurisdictional Seismic Safety Committee in 	All Hazards	Suffolk County, as supported by relevant local department leads,		Ongoing Capability	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3. Ongoing Capability



	<p>Suffolk County (build regional, county and local capabilities to manage seismic risk, both pre- and post-disaster)</p> <ul style="list-style-type: none"> Alignment of Mitigation Initiatives through all levels of Government (effort to build State and Federal level recognition and support of the County and local hazard mitigation planning strategies identified in this plan). 						
VSH-7 (former VSH-5)	Continue to develop, enhance and implement existing emergency plans, incorporating the findings and recommendations of this hazard mitigation plan.	All Hazards	Town/Village		Ongoing Capability	Cost Level of Protection Damages Avoided; Evidence of Success	1. Discontinue 2. 3. Ongoing Capability
VSH-8 (former VSH-9)	Develop data collection and organization program to improve the documentation of hazard events. This may include recording high-water marks, documenting beach erosion, compiling and archiving loss data.	All hazards	County, Town/Village		In Progress	Cost Level of Protection Damages Avoided; Evidence of Success	1. Include in 2020 HMP 2. Coastal erosion monitoring 3.
VSH-9 (former VSH-10)	Develop and implement a program to collect vulnerable population and (add other types of data), consistent with the Town and Village of East Hampton, and convert into more widely useable and distributable forms, including GIS and electronic	All hazards	County, Town/Village		Ongoing Capability	Cost Level of Protection Damages Avoided; Evidence of Success	1. Discontinue 2. 3. Ongoing capability



	spreadsheet (Excel) formats. This effort should be coordinated with Town of East Hampton and Village of East Hampton to develop consistent, comprehensive datasets.							
VSH-10	Work with County and PSEG (formerly LIPA) to identify roads within the municipality that are considered "critical", and to be the first priority for clearing after an event involving downed power lines.	Severe Storm; Severe Winter Storm; Hurricane; Nor'Easter	PSEG, County		Complete	Cost		1. Discontinue
						Level of Protection		2.
						Damages Avoided; Evidence of Success		3. Complete

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Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy

The Village of Sag Harbor has identified the following mitigation projects/activities that have also been completed but were not identified in the previous mitigation strategy in the 2014 HMP:

- The Village installed a bulkhead on West Water Street to prevent road erosion during hurricane and storm events.

Proposed Hazard Mitigation Initiatives for the HMP Update

The Village of Sag Harbor participated in a mitigation action workshop in June 2020 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 9.17-15 summarizes the comprehensive-range of specific mitigation initiatives the Village of Sag Harbor 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 (Mitigation Strategy), fourteen criteria are used to evaluate and prioritize each proposed mitigation action. A numeric factor is assigned (-1, 0, or 1) to each criterion to provide a relative indication of the opportunities and constraints of each action. A numerical sum of the input provides the basis of the prioritization of actions wherein each action is assigned a category of Low, Medium, or High to indicate an implementation hierarchy. A High priority action indicates the jurisdiction will prioritize its implementation and apply for funding, if needed, as opportunities become available during the plan period of performance. This does not prevent the jurisdiction from implementing other ranked actions; however, this provides a snapshot of implementation priority at the time of this plan update.

Table 9.17-16 provides a summary of the evaluation and prioritization for each proposed mitigation initiative. Refer to the action worksheets at the end of this annex for more details on the high-ranked hazards identified first for implementation.



Table 9.17-15. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2020-Sag Harbor -001	Repetitive loss properties	1, 2	Flood, Severe Storm	<p>Problem: Frequent flooding events have resulted in damages to residential properties. These properties have been repetitively flooded as documented by paid NFIP claims.</p> <p>Solution: Conduct outreach to 30 flood-prone property owners, including RL/SRL property owners and provide information on mitigation alternatives. After preferred mitigation measures are identified, collect required property-owner information and develop a FEMA grant application and BCA to obtain funding to implement acquisition/purchase/moving/elevating residential homes in the flood prone areas that experience frequent flooding (high risk areas).</p>	No	None	Within 5 years	NFIP FPA, supported by homeowners	\$3Million	Eliminates flood damage to homes and residents, creates open space for the municipality increasing flood storage.	FEMA HMGP and FMA, local cost share by residents	High	SIP	PP
2020-Sag Harbor -002	Expansion of Sewer District	2, 3	Flood, Severe Storm, Groundwater Contamination	<p>Problem: The Village has numerous residential properties that remain on septic. These properties could experience overflow during storm surge events.</p> <p>Solution: The Village will investigate the feasibility of extending the sewer system east down Bay Street to eliminate overflow of residential septic systems vulnerable to storm surges. Implement engineered mitigation project(s) as funding is secured.</p>	No	Could require permitting	Within 5 years	Engineer, Public Works	TBD	Reduction in overflow of septic systems	Municipal budget	High	SIP	SP
2020-Sag Harbor -003	Wastewater Treatment Plant Flood Protection	1, 2	Flood	<p>Problem: Wastewater Treatment Plant is near the water and roadways leading to it are flood prone. The facility is located in the SFHA.</p> <p>Solution: The Village will conduct a feasibility assessment to determine what additional floodproofing measures are needed at the Wastewater Treatment Plant to protect it to the 500-year flood level. The Village will</p>	Yes	No	Within 5 years	Engineer, Public Works	TBD by feasibility assessment	Protection of critical facility, continuity of operations	FEMA HMGP and PDM, BRIC, USDA Community Facilities Grant Program, Village Budget	High	SIP	PP



Table 9.17-15. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				then carry out the identified actions. In addition, the Village will raise the elevation of the road leading to the Plant as well as the parking lot to maintain access during flood events.										
2020-Sag Harbor -004	Sag Harbor Village Stormwater Improvements	1, 2, 3	Flood, Severe Storm	<p>Problem: Localized drainage problems are noted in the following areas. These areas have already been mitigated with stormwater improvements but due to their low elevation, they are likely to remain flood prone.</p> <ul style="list-style-type: none"> •Havens Beach •Rogers Street •Spring Street and Garden Street •Spring Street and Bridge Street •Long Island Avenue •Bay Street •Hempstead Street •Latham and Division •Redwood area <p>Solution: The Village will monitor the identified areas and determine if further improvements are needed to the stormwater system. The Village will also investigate any additional stormwater technologies that may be available to address the Village's stormwater issues.</p>	No	None anticipated	Within 5 years	Stormwater Management Officer	TBD by future identified improvements	Reduction in stormwater flooding	Municipal budget	High	SIP	SP
2020-Sag Harbor -005	Coastal Erosion Monitoring	1, 2, 3, 5	Coastal Erosion, Hurricane, Nor'Easter	<p>Problem: The Village has shoreline which could be exposed to coastal erosion.</p> <p>Solution: The Village will participate in a county led erosion monitoring program.</p>	No	None	Within 1 year	SCWD, Village Administration	Staff time	Identification of coastal erosion	Municipal budget	High	NSP	NR
2020-Sag Harbor -006	Critical Facilities Flood Outreach	2, 6	Flood	<p>Problem: The Village has numerous critical facilities that are located in the SFHA that are not under the Village's jurisdiction.</p> <ul style="list-style-type: none"> • LEGISLATORS WILLIAM JONES & GEORGE GULDI 	Yes	None	Within 6 months	FPA	Staff time	Facility managers made aware of flood exposure and	Municipal budget	High	EAP	PI



Table 9.17-15. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>MAIN ST</p> <ul style="list-style-type: none"> Sag Harbor Post Office LEGISLATORS JONES/THIELE BAY ST & RTE 114 <p>Solution: The FPA will conduct outreach to the facility managers to discuss their flood exposure and potential mitigation actions that could be taken.</p>						potential flood mitigation				
2020-Sag Harbor -007	Fire Station Flood Mitigation	1, 2, 7	Flood	<p>Problem: Sag Harbor Fire Station 1 and 2 are located in the SFHA.</p> <p>Solution: The Village will conduct an assessment to determine if the Fire Stations require flood mitigation to protect to the 500-year flood level. The Village will then carry out any necessary actions.</p>	Yes	None	1 year	Engineer, Fire Department	TBD by assessment	Continuity of operations	FEMA HMGP and PDM, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Village Budget	High	SIP	PP
2020-Sag Harbor -008	Localized Flood Mitigation.	1, 2	Flood, Severe Storm	<p>Problem: Flooding conditions occur at several locations. The Village's contract engineers (D&B Engineers) recently completed an engineering study and identified a number of alternatives to mitigate periodic flood conditions at four locations in the Village, specifically:</p> <ul style="list-style-type: none"> Rogers Street, between Latham Street and Henry Street Hempstead Street near the intersection with Liberty Street The intersection of Spring Street and Garden Street Redwood road sections 	No	None	Within 5 years	Engineering (Village and contractual)	TBD by selected actions	Reduction in flood risk	FEMA HMGP, PDM, BRIC, CDBG, Village budget	Medium	SIP	SP



Table 9.17-15. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>Solution: The Village, and with their contract engineers, intend to continue to evaluate these alternatives, and implement as technically feasible and as funding is secured. The Village will work to pursue funding to implement eligible projects identified in the study, including related initiatives below. The Village notes that they may work to implement discrete mitigation projects identified in this study as complete implementation may be infeasible both technically and/or fiscally.</p>										
2020-Sag Harbor -009	Redwood Bridge	1, 2	Flood, Severe Storm	<p>Problem: Flooding conditions exist at the Redwood Bridge and approaches.</p> <p>Solution: Investigate potential solutions to mitigate the flooding problems at the bridge on Redwood and approaches; and implement identified mitigation project(s) as funding is secured. Elevation of the bridge has been considered, however it is noted that Glovers Street and portions of West Water Street would likely need to be elevated as well.</p>	No	None	Within 5 years	Engineering (Village and contractual)	TBD, anticipated as high	Redwood Bridge and approaches kept passable during flooding conditions	FEMA HMGP, BRIC, CDBG, Village budget	High	SIP	PP

Notes:

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

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- PDM Pre-Disaster Mitigation Grant Program

Timeline:

The time required for completion of the project upon implementation

Cost:

The estimated cost for implementation.

Benefits:


A description of the estimated benefits, either quantitative and/or qualitative.





NFIP National Flood Insurance Program
OEM Office of Emergency Management

Critical Facility:

Yes  Critical Facility located in 1% floodplain

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 9.17-16. Summary of Prioritization of Actions

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2020-Sag Harbor-001	Repetitive loss properties	1	1	1	1	1	1	0	1	0	0	1	0	1	1	10	High
2020-Sag Harbor-002	Expansion of Sewer District	0	1	1	1	1	1	1	1	1	1	1	0	1	1	13	High
2020-Sag Harbor-003	Wastewater Treatment Plant Flood Protection	1	1	1	1	1	1	0	1	1	1	0	0	1	1	11	High
2020-Sag Harbor-004	Sag Harbor Village Stormwater Improvements	1	1	1	1	1	1	1	1	1	1	1	0	1	1	13	High
2020-Sag Harbor-005	Coastal Erosion Monitoring	0	1	1	1	1	1	0	1	1	1	0	1	1	1	11	High
2020-Sag Harbor-006	Critical Facilities Flood Outreach	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2020-Sag Harbor-007	Fire Station Flood Mitigation	1	1	1	1	1	1	0	1	1	1	0	0	1	1	11	High
2020-Sag Harbor-008	Localized Flood Mitigation.	1	1	0	0	0	1	0	1	1	0	1	0	1	1	8	Medium
2020-Sag Harbor-009	Redwood Bridge	1	1	0	1	0	1	0	1	1	0	1	0	1	1	9	High

Note: Refer to Section 6, which conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).





9.17.11 Proposed Mitigation Action Types

The table below indicates the range of proposed mitigation action categories.

Table 9.17-17. Analysis of Mitigation Actions by Hazard and Category

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Coastal Erosion			2020-Sag Harbor-005					2020-Sag Harbor-005		
Cyber Security										
Disease Outbreak										
Drought										
Earthquake										
Expansive Soils										
Extreme Temperature										
Flood		2020-Sag Harbor-001, 2020-Sag Harbor-002, 2020-Sag Harbor-003, 2020-Sag Harbor-004, 2020-Sag Harbor-007, 2020-Sag Harbor-008, 2020-Sag Harbor-009		2020-Sag Harbor-006		2020-Sag Harbor-001, 2020-Sag Harbor-003, 2020-Sag Harbor-007, 2020-Sag Harbor-009	2020-Sag Harbor-006		2020-Sag Harbor-002, 2020-Sag Harbor-004, 2020-Sag Harbor-008	
Groundwater Contamination		2020-Sag Harbor-002							2020-Sag Harbor-002	
Hurricane			2020-Sag Harbor-005					2020-Sag Harbor-005		
Infestation and Invasive Species										



Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Nor'Easter			2020-Sag Harbor-005					2020-Sag Harbor-005		
Severe Storm		2020-Sag Harbor-001, 2020-Sag Harbor-002, 2020-Sag Harbor-004, 2020-Sag Harbor-008, 2020-Sag Harbor-009				2020-Sag Harbor-001, 2020-Sag Harbor-009			2020-Sag Harbor-002, 2020-Sag Harbor-004, 2020-Sag Harbor-008	
Severe Winter Storm										
Shallow Groundwater										
Wildfire										

Note: Section 6 (Mitigation Strategy) provides for an explanation of the mitigation categories.

9.17.12 Staff and Local Stakeholder Involvement in Annex Development

The Village of Sag Harbor followed the planning process described in Section 3 (Planning Process) in Volume I of this plan update. This annex was developed over the course of several months with input from many Village departments, including: Police Department, Village Clerk-Administrator, Public Works, and Building Department. The Police Chief represented the community on the Suffolk County Hazard Mitigation Plan Planning Partnership, and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes who participated and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Section 3 (Planning Process) and Appendix C (Meeting Documentation).

Table 9.17-18. Contributors to the Annex

Name	Title/Entity	Method of Participation
Austin J. McGuire	Chief of Police, Emergency Manager	Primary Point of Contact, attended plan participant meetings, provided impact data, contributed to the mitigation strategy
Beth Kamper	Clerk/Administrator	Secondary Point of Contact, attended plan participant meetings, provided impact data, contributed to the mitigation strategy
Dee Yardley	Superintendent of Public Works	Secondary Point of Contact, attended plan participant meetings, provided impact data, contributed to the mitigation





Name	Title/Entity	Method of Participation
Thomas Preiato	Building Inspector	NFIP Floodplain Administrator, provided development information

9.17.13 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Village of Sag Harbor that illustrate the probable areas that may be 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. The maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Village of Sag Harbor has significant exposure.

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Figure 9.17-1. Village of Sag Harbor Hazard Area Extent and Location Map 1

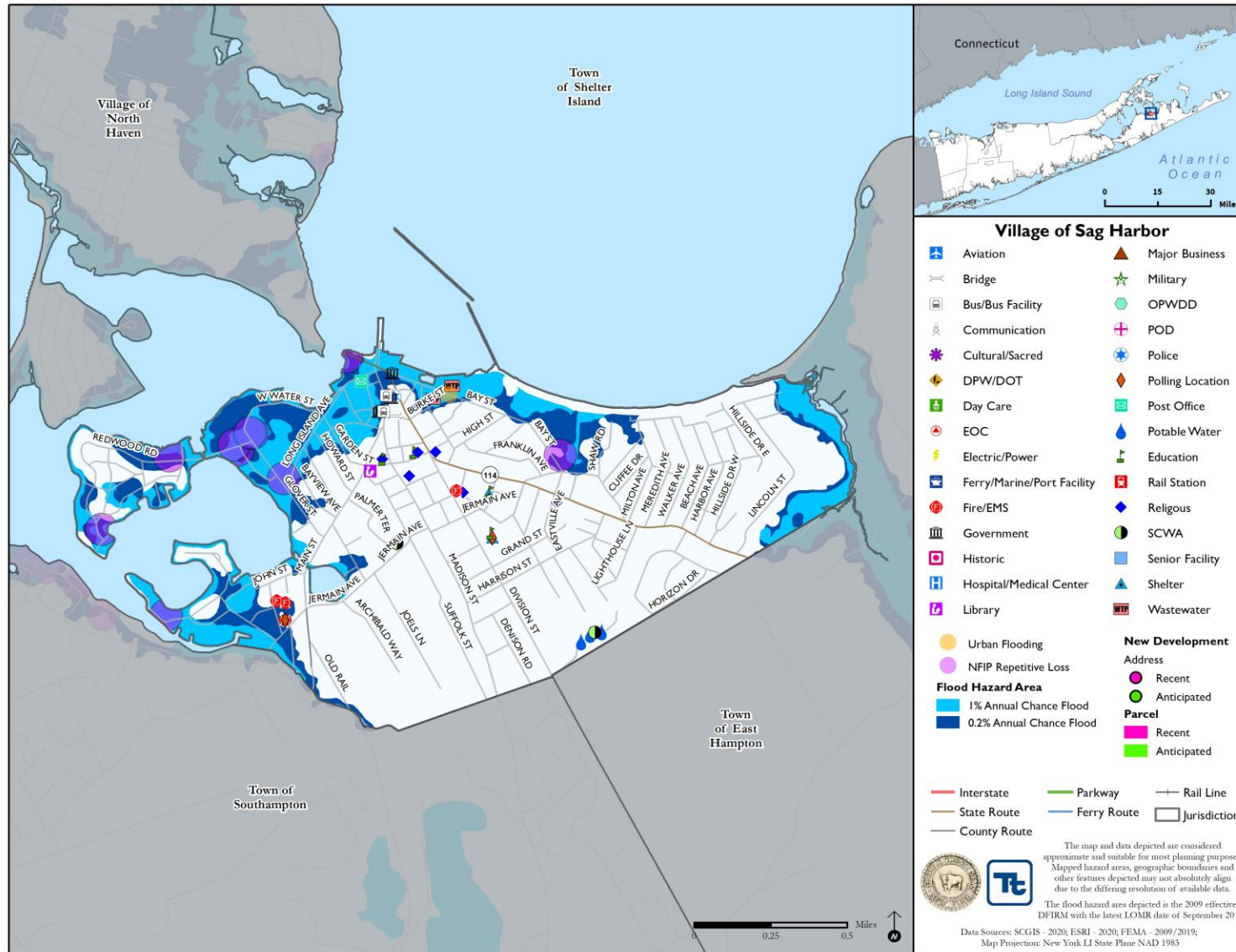




Figure 9.17-2. Village of Sag Harbor Hazard Area Extent and Location Map 2

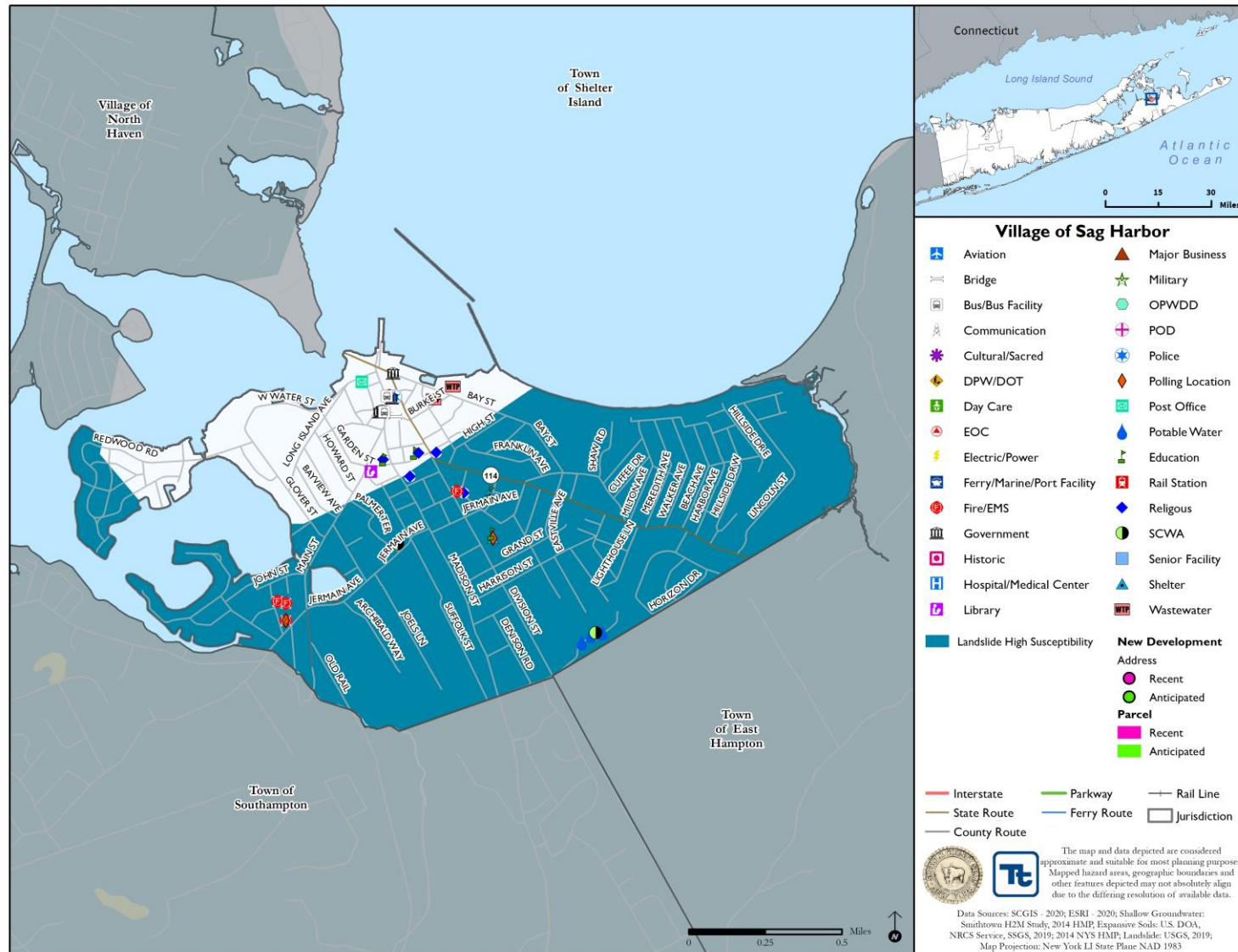




Figure 9.17-3. Village of Sag Harbor Hazard Area Extent and Location Map 3

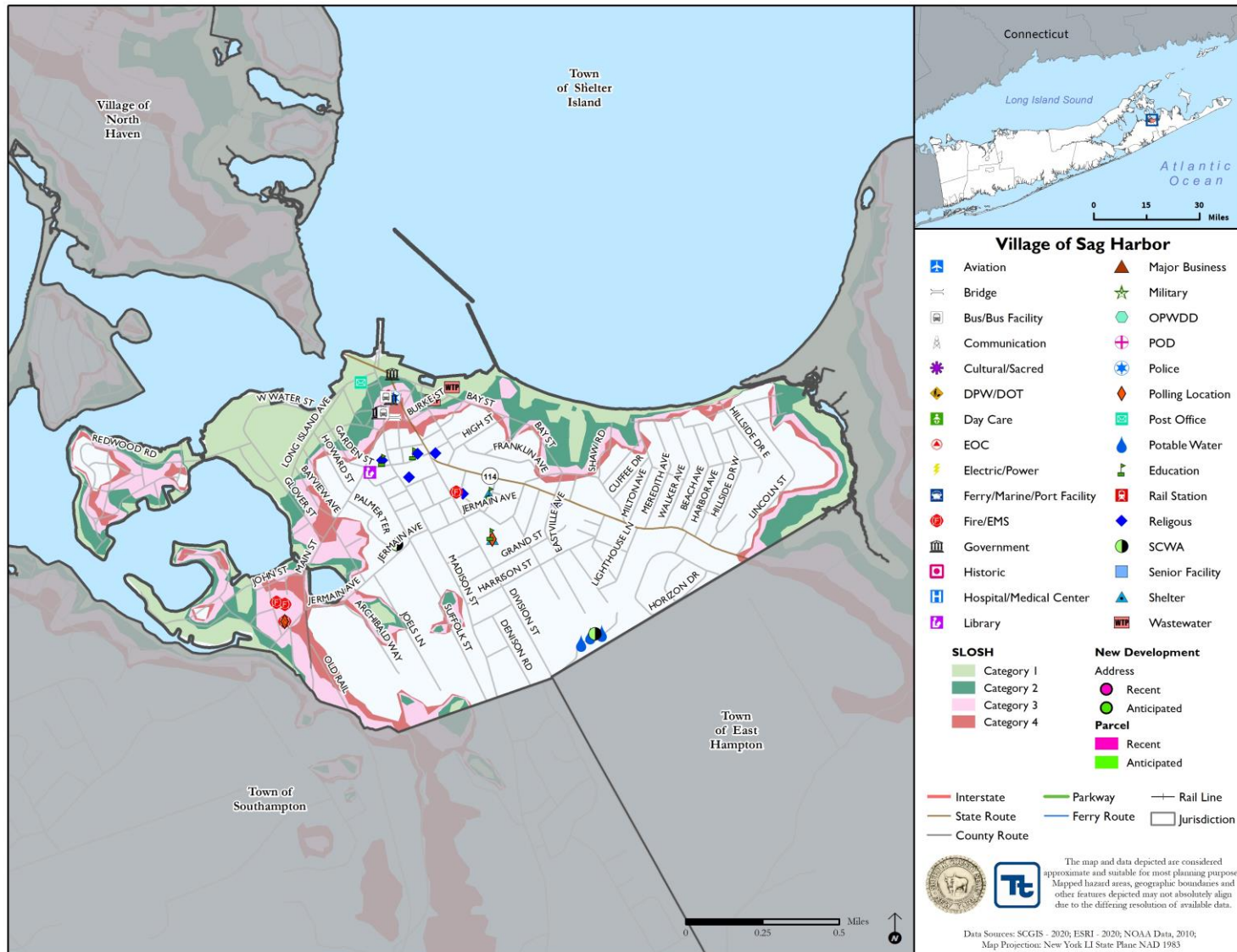




Figure 9.17-4. Village of Sag Harbor Hazard Area Extent and Location Map 4

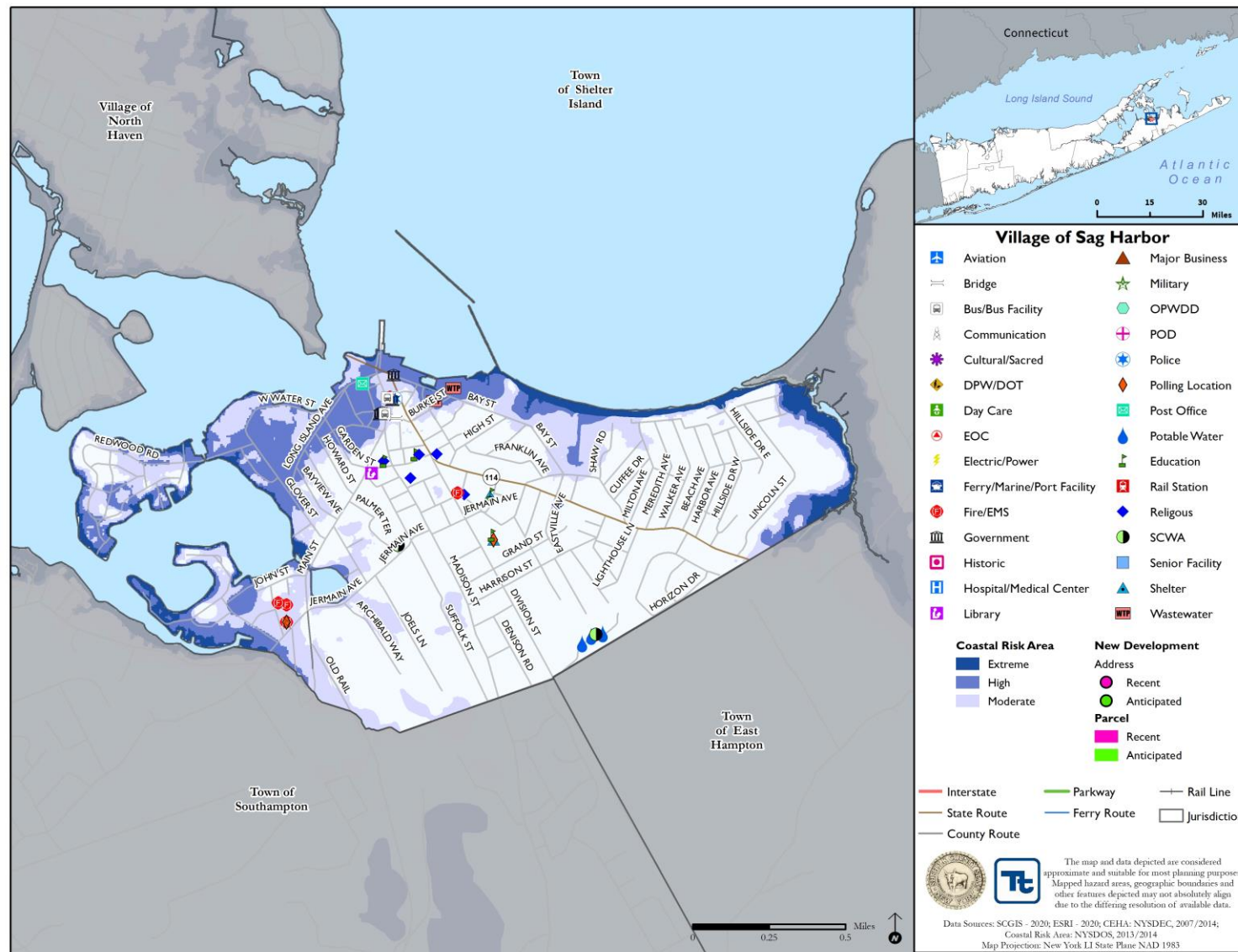




Figure 9.17-5. Village of Sag Harbor Hazard Area Extent and Location Map 5

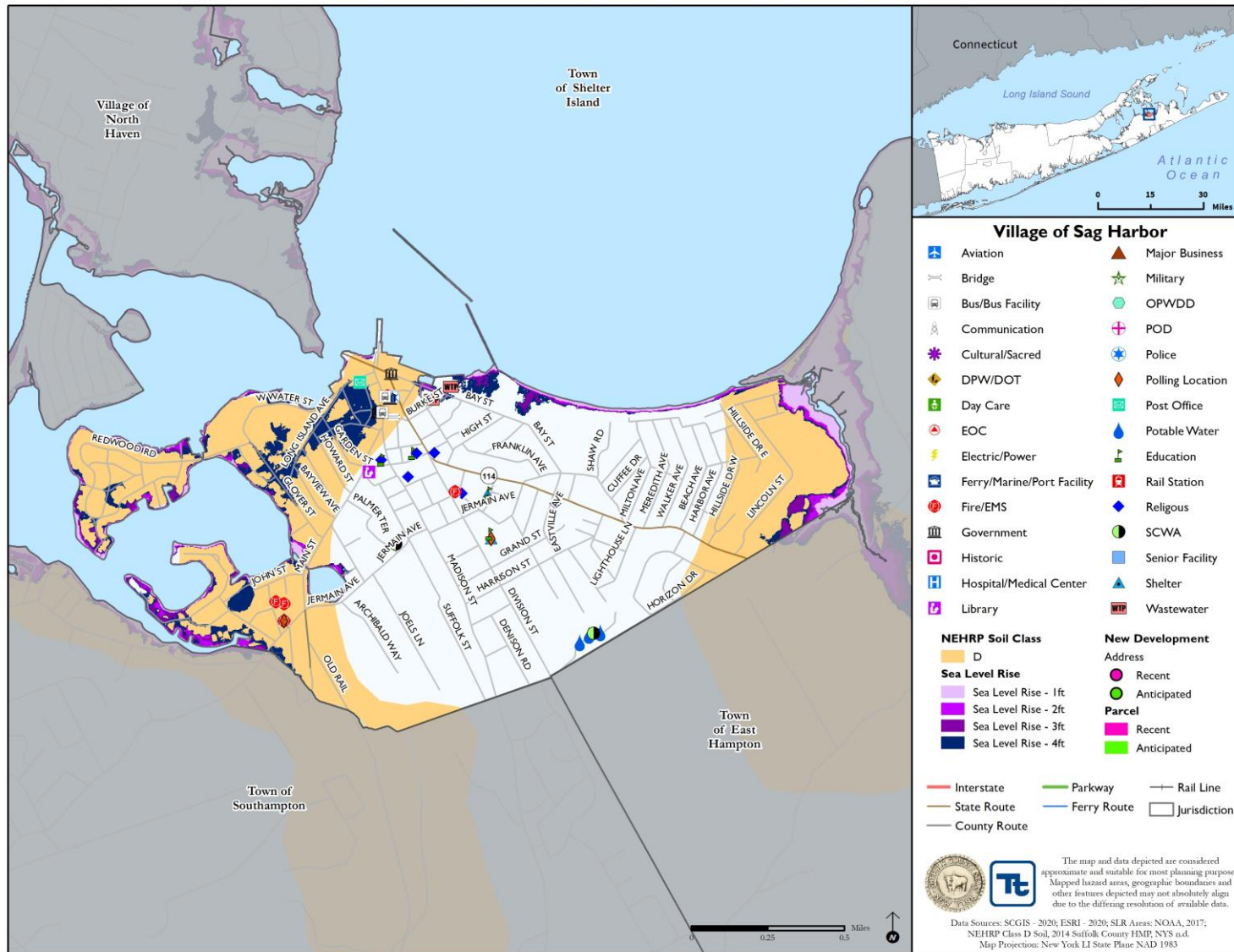
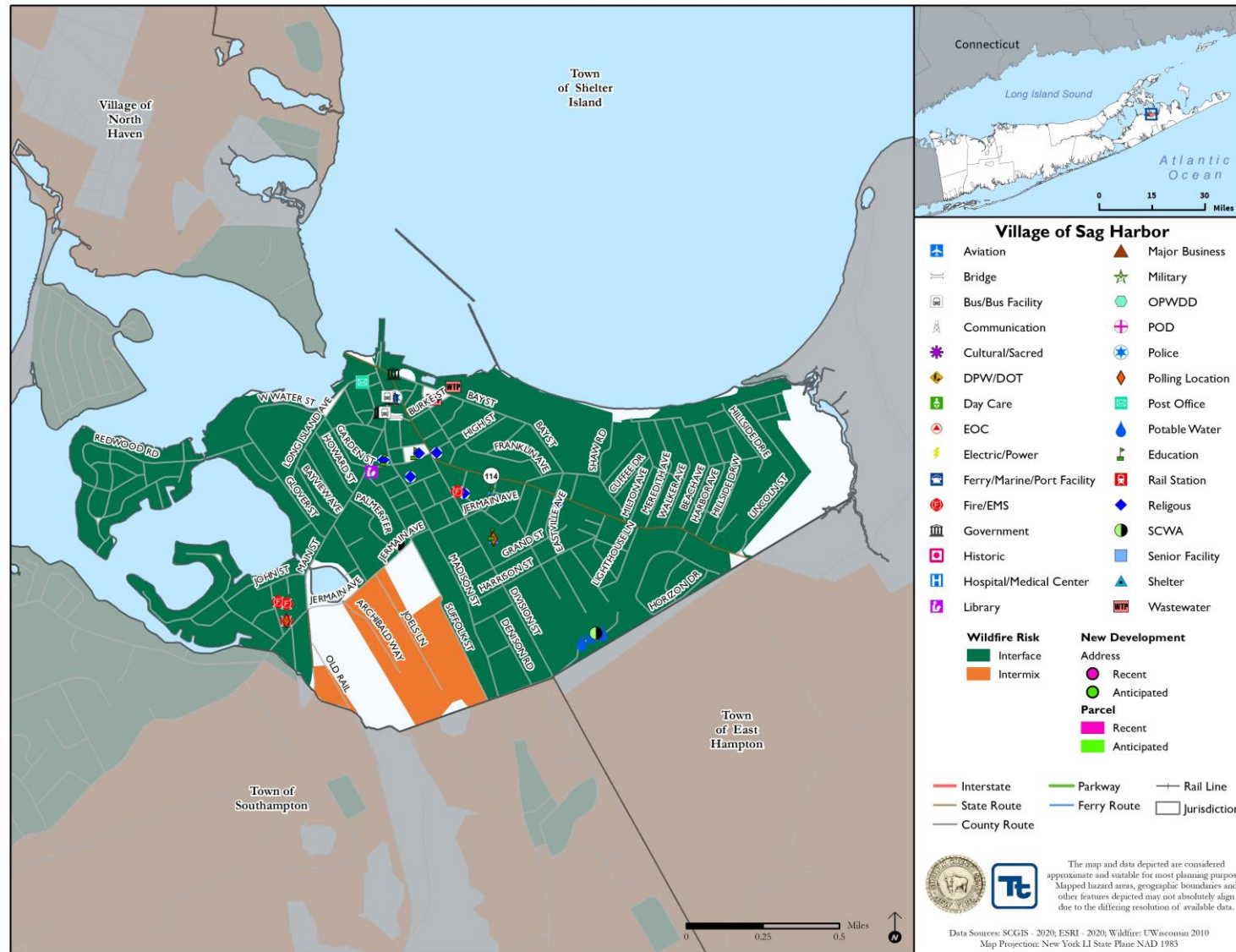




Figure 9.17-6. Village of Sag Harbor Hazard Area Extent and Location Map 6





Action Worksheet			
Project Name:	Repetitive Loss Properties		
Project Number:	2020-Sag Harbor-001		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	Frequent flooding events have resulted in damages to residential properties. These properties have been repetitively flooded as documented by paid NFIP claims.		
Action or Project Intended for Implementation			
Description of the Solution:	Conduct outreach to 30 flood-prone property owners, including RL/SRL property owners and provide information on mitigation alternatives. After preferred mitigation measures are identified, collect required property-owner information and develop a FEMA grant application and BCA to obtain funding to implement acquisition/purchase/moving/elevating residential homes in the flood prone areas that experience frequent flooding (high risk areas).		
Is this project related to a Critical Facility or Lifeline?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Level of Protection:	1% annual chance flood event + freeboard (<i>in accordance with flood ordinance</i>)	Estimated Benefits (losses avoided):	Eliminates flood damage to homes and residents, creates open space for the municipality increasing flood storage.
Useful Life:	Acquisition: Lifetime Elevation: 30 years (residential)	Goals Met:	1, 2
Estimated Cost:	\$3Million	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	6-12 months
Estimated Time Required for Project Implementation:	Three years	Potential Funding Sources:	FEMA HMGP and FMA, local cost share by residents
Responsible Organization:	NFIP Floodplain Administrator, supported by homeowners	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Current problem continues
	Elevate homes	\$500,000	When this area floods, the entire area is impacted; elevating homes would not eliminate the problem and still lead to road closures and impassable roads
Elevate roads	\$500,000	Elevated roadways would not protect the homes from flood damages	
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Repetitive Loss Properties	
Project Number:	2020-Sag Harbor-001	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Families moved out of high-risk flood areas.
Property Protection	1	Properties removed from high-risk flood areas.
Cost-Effectiveness	1	Cost-effective project
Technical	1	Technically feasible project
Political	1	
Legal	1	The Village has the legal authority to conduct the project.
Fiscal	0	Project will require grant funding.
Environmental	1	
Social	0	Project would remove families from the flood prone areas of the Village.
Administrative	0	
Multi-Hazard	1	Flood, Severe Storm
Timeline	0	
Agency Champion	1	NFIP Floodplain Administrator, supported by homeowners
Other Community Objectives	1	
Total	10	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Wastewater Treatment Plant Flood Protection		
Project Number:	2020-Sag Harbor-003		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood		
Description of the Problem:	The Sag Harbor Wastewater Treatment Plant is near the water and roadways leading to it are flood prone. The facility is located in the Special Flood Hazard Area.		
Action or Project Intended for Implementation			
Description of the Solution:	<p>The Village will conduct a feasibility assessment to determine what additional floodproofing measures are needed at the Wastewater Treatment Plant to protect it to the 500-year flood level. Options include:</p> <ul style="list-style-type: none"> • Elevation of facility • Floodproofing of facility • Mobile flood barriers <p>Once the most cost effective option is identified, the Village will carry out the option.</p> <p>In addition, the Village will raise the elevation of the road leading to the Plant as well as the parking lot to maintain access during flood events..</p>		
Is this project related to a Critical Facility?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
(If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	500-year flood level	Estimated Benefits (losses avoided):	Ensures continuity of operations
Useful Life:	TBD by feasibility assessment	Goals Met:	
Estimated Cost:	TBD by feasibility assessment	Mitigation Action Type:	Structure and Infrastructure Projects (SIP)
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 5 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	FEMA HMGP and PDM, BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Village Budget
Responsible Organization:	Engineer, Public Works	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation, Emergency Management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Relocate wastewater plant	N/A	Not possible
	Build levee around facility	N/A	No space for full levee system
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Wastewater Treatment Plant Flood Protection	
Project Number:	2020-Sag Harbor-003	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of Wastewater Treatment Plant
Property Protection	1	Project will protect Wastewater Treatment Plant from flood damage.
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The Village has the legal authority to complete the project.
Fiscal	0	Project requires funding support.
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	0	Flood
Timeline	0	Within 5 years
Agency Champion	1	Engineer, Public Works
Other Community Objectives	1	Protection of critical services
Total	11	
Priority (High/Med/Low)	High	