



9.13 Village of Port Jefferson

This section presents the jurisdictional annex for the Village of Port Jefferson. 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 Port Jefferson’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.

9.13.1 Hazard Mitigation Planning Team

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

Table 9.13-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Joseph Palumbo, Village Administrator Address: 121 West Broadway, Port Jefferson, NY 11777 Phone Number: 631-473-4724 Email: jpalumbo@portjeff.com	Name/Title: Barbara Sakovich, Village Clerk Address: 121 West Broadway, Port Jefferson, NY 11777 Phone Number: 631-473-4724 x216 Email: bsakovich@portjeff.com
NFIP Floodplain Administrator	
Name/Title: Allison LaPointe, Assistant Attorney Address: 121 West Broadway, Port Jefferson, NY 11777 Phone Number: 631-473-4744 x317 Email: alepointe@portjeff.com	

9.13.2 Municipal Profile

Brief History

The Village of Port Jefferson is a historic shipbuilding village. At one time, the Village was a small ship building community, with the name Drowned Meadow. The community leaders realized this was a poor name for a shipbuilding business, and changed its name to Port Jefferson, after President Thomas Jefferson. The Village was also once a major whaling port, especially in the 1880s. The Village of Port Jefferson was incorporated in 1964.

The Village of Port Jefferson is located within the Town of Brookhaven, on the North Shore of Long Island. The Village is located approximately 56 miles east of New York City, in the northern part of central Suffolk County. The Village of Port Jefferson has a total area of 3.05 square miles, with 3.0 square miles of land and 0.05 square miles of water.

The Village of Port Jefferson Government consists of a Mayor and four Trustees.

According to the U.S. Census, the 2010 population for the Village of Port Jefferson was 7,750. The estimated 2017 population was 7,871, a 1.6 percent increase from the 2010 Census. Data from the 2017 U.S. Census American Community Survey indicate that 4.0 percent of the population is 5 years of age or younger and 23 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.



9.13.3 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 9.13-2 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 9.13-2. 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	10	0	5	0	0	0	2	0	0	0	0	0
Multi-Family	0	0	1	0	2	0	0	0	0	0	1	1
Other (commercial, mixed-use, etc.)	0	0	0	0	0	0	0	0	0	0	1	0
Total Permits Issued	10	0	6	0	2	0	2	0	0	0	2	1
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												
The Hills	Res	74		23 Texaco Avenue		Landslide high susceptibility		Complete				
The Residences	Res	112		201 W Broadway		1% and .2% Flood Zone, Landslide high susceptibility, Sea level rise 4 feet, SLOSH categories 1-4, High coastal risk hazard area		Complete				
Overbay	Res	52		217 W Broadway		SFHA, SLOSH categories 2-4, Moderate coastal risk hazard area		Under Construction				
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years												
Port Jefferson Crossings	Mixed Use	45		1601 Main Street		Landslide high susceptibility		Planning				
Brookside	Mixed Use	46		440 Main Street		Landslide high susceptibility, SLOSH categories 3 & 4, Moderate coastal risk hazard area		Approved and permits issued for very early construction				



SFHA Special Flood Hazard Area (1% flood event)

* Only location-specific hazard zones or vulnerabilities identified.

9.13.4 Capability Assessment

The Village of Port Jefferson 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 9.13.4). The Village of Port Jefferson 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 Port Jefferson and where hazard mitigation has been integrated.

Table 9.13-3. 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?	
						If no - can it be a mitigation action?	
Codes, Ordinances, & Requirements							
Building Code	Yes	Chapter 101: Building Construction, Adopted 6/11/1992	Local and County	Building Department	Yes	Yes	-
Comment: The Village of Port Jefferson enforces the New York State Uniform Fire Prevention and Building Code as the building code of the Village.							
Zoning Code	Yes	Chapter 250: Zoning, Re-adopted 12/15/1991	Local	Planning Board	No	Yes	-
Comment: The purposes, among others, of this chapter are: to secure safety from fire, panic, floods and other dangers; to provide adequate light and air; to prevent overcrowding of land; to avoid undue concentration of population; to facilitate the adequate provision of transportation, water, sewerage, schools, parks and other public requirements; to assure adequate sites for residence, industry and commerce; to provide privacy for families; to prevent and reduce traffic congestion so as to promote efficient and safe circulation of vehicles and pedestrians; to afford maximum protection to residential areas; to eliminate gradually nonconforming uses; to enhance the appearance of the Incorporated Village of Port Jefferson as a whole; to regulate and restrict the location, height, bulk and size of buildings and other structures,							



	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?	
the percentage of lot which may be occupied, the size of yards, courts and other open spaces, the density and distribution of population, the location and uses of buildings and structures and the uses of land for trade, industry, residence and other purposes.							
Subdivisions	Yes	Chapter 220: Subdivision of Land, Re-adopted 1/3/1991	Local	Planning Board	No	Yes	-
<p>Comment: It is declared that with the authority to act upon and approve plat plans for subdivision, the Planning Board of the Village establishes this chapter to ensure the orderly, efficient and economical development of the Village. This means, among other things, that land to be subdivided shall have such character that it can be used safely for building purposes without danger to health or peril from fire, flood or other menaces; that proper provision shall be made for drainage, water supply, sewerage facilities and other needed improvements; that all proposed lots shall be so laid out and of such size as to be in harmony with the development pattern of the neighboring properties; that the proposed streets shall compose an efficient and convenient system for both vehicular and pedestrian traffic; that individual streets be of such width, grade and location as to accommodate prospective traffic, afford adequate light and air, facilitate fire protection and provide access for fire-fighting equipment to buildings and be coordinated so as to compose a convenient system conforming to the Official Map and properly related to the proposals shown by the Planning Board on the Master Plan; and that proper provision be made for recreational areas, including parks and playgrounds, of suitable size and location. All streets and other public places shown on such plats shall be suitably graded and paved and sidewalks, streetlighting standards, curbs, gutters, street trees, water mains, fire alarm signal devices, sanitary sewers and storm drains shall be installed all in accordance with the standard specifications and procedures acceptable to the appropriate Village departments, or alternatively, a proper performance bond shall be furnished to the Village by the owner. The conservation of the natural character of the land shall be considered in all land development. The preservation of all elements of topography and plant growth, including the natural waterfront, woodlands, ponds and streams which contribute to the natural ecology and visual attractiveness of the Village, shall be encouraged.</p>							
Stormwater Management	Yes	Chapter 213: Stormwater Management, Adopted 6/25/2007	Local, State	Stormwater Management Officer	Yes	Yes	-
<p>Comment: The purpose of this article 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. The ordinance aims to:</p> <ul style="list-style-type: none"> • 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; • Require land development activities to conform to the substantive requirements of the NYS Department of Environmental Conservation State Pollutant Discharge Elimination System (SPDES) General Permit for Construction Activities, GP-02-01, or as amended or revised; • 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; • Minimize increases in pollution caused by stormwater runoff from land development activities which would otherwise degrade local water quality; • Minimize the total annual volume of stormwater runoff which flows from any specific site during and following development to the maximum extent practicable; and • 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	-	-
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	Yes	2030 Comprehensive Plan Update; Amended 2014	Local	Board of Trustees, Clerks Department	No	Yes	-
Comment:							



	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?	
Site Plan Review	Yes	Code of the Village of Port Jefferson, Chapter 250, Article V, 250-10	Local	Planning Board/Building Department	No	Yes	-
Comment:							
Environmental Protection	Yes	Code of the Village of Port Jefferson, Chapter 129	Local	Planning/Building Department	Yes	Yes	-
Comment: The specific purpose of this chapter is to incorporate the consideration of environmental factors into the planning, reviewing and decision-making processes of Village agencies at the earliest possible stage in those processes so that a suitable balance of social, economic and environmental factors may be incorporated in the decision. It is not the intention of this chapter that environmental factors be the sole consideration in the decision-making process							
Flood Damage Prevention	Yes	Chapter 145, Updated August 24, 2009	Local	Engineer	Yes - BFE+2 feet for all construction in the SFHA (residential and non-residential)	Yes	-
Comment: The purpose of the ordinance is: <ul style="list-style-type: none"> • Protect human life and health; • Minimize expenditure of public money for costly flood control projects; • Minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public; • Minimize prolonged business interruptions; • Minimize damage to public facilities and utilities such as water and gas mains, electric, telephone, sewer lines, streets and bridges located in areas of special flood hazard; • Help maintain a stable tax base by providing for the sound use and development of areas of special flood hazard so as to minimize future flood blight areas; • Provide that developers are notified that property is in an area of special flood hazard; and • Ensure that those who occupy the areas of special flood hazard assume responsibility for their actions. 							
Stormwater Management	Yes	Chapter 213: Stormwater Management, Adopted 6/25/2007	Local, State	Stormwater Management Officer	Yes	Yes	-
Comment: The purpose of this article 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. The ordinance aims to: <ul style="list-style-type: none"> • 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; • Require land development activities to conform to the substantive requirements of the NYS Department of Environmental Conservation State Pollutant Discharge Elimination System (SPDES) General Permit for Construction Activities, GP-02-01, or as amended or revised; • 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; • Minimize increases in pollution caused by stormwater runoff from land development activities which would otherwise degrade local water quality; • Minimize the total annual volume of stormwater runoff which flows from any specific site during and following development to the maximum extent practicable; and • 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. 							
Emergency Management	No	-	-	-	Yes	-	-
Comment:							



	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?	
Climate Change	No	-	-	-	Yes	-	-
Comment:							
Disaster Recovery Ordinance	No	-	-	-	No	-	-
Comment:							
Disaster Reconstruction Ordinance	No	-	-	-	No	-	-
Comment:							
Coastal Erosion Hazard Areas	Yes	Code of the Village of Port Jefferson, Chapter 111	Local	Administrator	No	Yes	-
<p>Comment: The Village of Port Jefferson hereby assumes the responsibility and authority to implement and administer a coastal erosion management program within its jurisdiction pursuant to Article 34 of New York State Environmental Conservation Law. The ordinance aims to:</p> <ul style="list-style-type: none"> • Establish standards and procedures for minimizing and preventing damage to structures from coastal flooding and erosion and to protect natural protective features and other natural resources. • Regulate, in coastal areas subject to coastal flooding and erosion, land use and development activities so as to minimize or prevent damage or destruction to man-made property, natural protective features and other natural resources and to protect human life. • Regulate new construction or placement of structures in order to place them a safe distance from areas of active erosion and the impacts of coastal storms to ensure that these structures are not prematurely destroyed or damaged due to improper siting, as well as to prevent damage to natural protective features and other natural resources. • Restrict public investment in services, facilities or activities which are likely to encourage new permanent development in erosion hazard areas. • Regulate the construction of erosion-protection structures in coastal areas subject to serious erosion to assure that, when the construction of erosion-protection structures is justified, their construction and operation will minimize or prevent damage or destruction to man-made property, private and public property, natural protective features and other natural resources. • Regulate maintenance activities of lands and structures subject to erosion caused by storms, winds or tides. 							
Planning Documents							
Comprehensive Plan	Yes	2030 Comprehensive Plan Update; Amended 2014	Local	Board of Trustees	No	Yes	-
<p>Comment: Relevant goals of the Comprehensive Plan include:</p> <ul style="list-style-type: none"> • Reduce Flow of Untreated Stormwater to the Harbor • Utilize Low Impact Development Techniques for Waterfront • Continue Monitoring of Lawrence Aviation Contaminant Plume • Restore and Enhance Mill Creek • Promote the Use of Native Plants on all Village Property • Utilize Best Management Practices and IPM on Village Property • Enact Riparian Buffer Regulations • Enact a Steep Slopes Ordinance. • Establish Priority Areas for New Sewering • Digitize the Sewer Collection System and Onsite Systems • Consider a Water Quality Improvement District • Inspect all Onsite Wastewater Treatment Systems • Provide Financing for Replacement of Onsite Wastewater Systems • Establish a Green Streets Program for Stormwater Management • Improve Stormwater Storage and Treatment Upstream of Mill Creek • Require Additional Onsite Stormwater Storage 							
Capital Improvement Plan	No	-	-	-	No	-	-
Comment:							
Disaster Debris Management Plan	Yes	Suffolk County Multi-Jurisdictional	County, Local	Suffolk County FRES	No	Yes	-



	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?	
		Debris Management Plan					
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	No	-	-	-	No	-	-
Comment:							
Stormwater Plan	Yes	Stormwater Management Plan	Local	Contracted	No	Yes	-
Comment:							
Open Space Plan	No	-	-	-	Yes	-	-
Comment:							
Urban Water Management Plan	No	-	-	-	No	-	-
Comment:							
Habitat Conservation Plan	No	-	-	-	No	-	-
Comment:							
Economic Development Plan	Yes	Economic Development Plan	Local	Village Board	No	Yes	-
Comment:							
Shoreline Management Plan	No	-	-	-	Yes	-	-
Comment:							
Community Wildfire Protection Plan	No	-	-	-	No	-	-
Comment:							
Forest Management Plan	No	-	-	-	No	-	-
Comment:							
Transportation Plan	Yes	Upper Port Traffic Study 2012	Local	Village Board	No	No	-
Comment: This study summarizes the comprehensive evaluation of potential traffic impacts associated with redevelopment of Uptown Port Jefferson, New York, referred to as "Upper Port". The purpose of this study is to determine the traffic impacts on the surrounding roadway infrastructure based on existing conditions and future increases in traffic based on additional residential and commercial development scenarios. This report presents the findings of the traffic study and summarizes the data collection process, traffic analysis procedures, and study findings.							
Agriculture Plan	No	-	-	-	Yes	-	-
Comment:							
Other (this could include a climate action plan, tourism plan, business development plan, etc.)	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:							
Response/Recovery Planning							
Comprehensive Emergency Management Plan	Yes	Suffolk County Comprehensive Emergency Management Plan (2018); Village Plan of 2016	Suffolk County and Associated Jurisdictions	Suffolk FRES	Yes	Yes	-
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.							
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	No	-	-	-	No	-	-
Comment:							
Public Health Plan	No	-	-	-	No	-	-
Comment: Follows the NYS Department of Health and CDC Guidance							
Other	No	-	-	-	No	-	-
Comment:							

Table 9.13-4. 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.	No, basically built out. Very low on single and separate lots

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Village of Port Jefferson.



Table 9.13-5. Administrative and Technical Capabilities

Resources	Available? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	Yes	Planning Department
Mitigation Planning Committee	No	-
Environmental Board/Commission	Yes	Committee
Open Space Board/Committee	No	-
Economic Development Commission/Committee	Yes	Committee as needed.
Warning Systems / Services (reverse 911, outdoor warning signals)	Yes	Code Red, Incident Management System (Town of Brookhaven)
Maintenance programs to reduce risk	Yes	DPW
Mutual aid agreements	Yes	Town of Brookhaven (multiple)
Technical/Staffing Capability		
Planners or engineers with knowledge of land development and land management practices	Yes	Contracted
Engineers or professionals trained in building or infrastructure construction practices	Yes	Contracted
Planners or engineers with an understanding of natural hazards	Yes	Contracted
Staff with expertise or training in benefit/cost analysis	Yes	Village Treasurer, Planning Department
Professionals trained in conducting damage assessments	Yes	Building Department
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	Incident Management System (Town of Brookhaven)
Scientist familiar with natural hazards	Yes	Contracted
NFIP Floodplain Administrator (FPA)	Yes	Planning Department, contracted when needed
Surveyor(s)	Yes	Contracted
Emergency Manager	Yes	Village Administrator – Joseph Palumbo
Grant writer(s)	Yes	Grant Writing Department, Mayor’s Office, Administrators Office
Resilience Officer	No	
Other (this could include stormwater engineer, environmental specialist, etc.)	No	Contracted as needed

Fiscal Capability

The table below summarizes financial resources available to the Village of Port Jefferson.

Table 9.13-6. 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	No
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes



Financial Resources	Accessible or Eligible to Use (Yes/No)
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	Unknown
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	No

Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Village of Port Jefferson.

Table 9.13-7. Education and Outreach Capabilities

Indicate if your jurisdiction has the following resources	Yes/No; Please describe
Public information officer or communications office?	No
Personnel skilled or trained in website development?	Contracted
Hazard mitigation information available on your website; if yes, describe	Yes. Code Red is posted, Stormwater information is posted, used for Post and Pre event information
Social media for hazard mitigation education and outreach; if yes, briefly describe.	Yes. Facebook
Citizen boards or commissions that address issues related to hazard mitigation; if yes, briefly describe.	No
Other programs already in place that could be used to communicate hazard-related information; if yes, briefly describe.	No
Warning systems for hazard events; if yes, briefly describe.	Yes. Code Red
Natural disaster/safety programs in place for schools; if yes, briefly describe.	No. County controlled
Other	No

Community Classifications

The table below summarizes classifications for community programs available to the Village of Port Jefferson.

Table 9.13-8. Community Classifications

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

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 9.13-9. Adaptive Capacity of Climate Change

Hazard	Adaptive Capacity (Capabilities) - High/Medium/Low*
Coastal Erosion	Medium
Cyber Security	Medium
Disease Outbreak	Medium
Drought	Medium
Earthquake	Low
Expansive Soils	Medium
Extreme Temperature	Medium
Flood	Low
Groundwater Contamination	Low
Hurricane	Medium
Infestation and Invasive Species	Low
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 has access to resources to determine the possible impacts of climate change upon the municipality through FEMA, Suffolk County, Town of Brookhaven and any other the Village.

9.13.5 National Flood Insurance Program

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

NFIP Floodplain Administrator (FPA)

Allison LaPointe, Village Engineer

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Village of Port Jefferson.

Table 9.13-10. NFIP Summary

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties
Village of Port Jefferson	56	66	\$1,212,781	8

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





Flood Vulnerability Summary

The Village does not maintain a specific list of properties damaged by flooding or property owners that are interested in flood mitigation. However, the Village assumes that properties that are in the FEMA flood zone would be interested in mitigation. Discussions are ongoing with various entities to study and obtain funding to implement certain flood mitigation measures including daylighting culverts and acquiring and utilizing tiger dams. The Village has recently received one building application to exceed the Village's building height requirement due to elevation. The Village is unsure how the project will ultimately be funded.

In order to conduct Substantial Damage determinations, the Village would utilize its insurance program to assess any damage as well as retain the services of professional services, if necessary. The Village does not have a list of substantial damage determinations, if any, that may have been declared during recent flood events.

The Village uses FEMA's flood maps as a basis for flood risk.

Resources

The Village Engineer is designated as the NFIP FPA through the Flood Damage Prevention Ordinance. The collective resources of FEMA, Suffolk County, Town of Brookhaven and the Village are responsible for floodplain management. No certified floodplain managers are part of the Village's staff. Training is paramount to the success of any mitigation plan of efforts. The Village welcomes any assistance it can obtain to regularly train its staff in flood mitigation.

NFIP administration services include permit review. In order to determine substantial improvements, applicants are required to submit an appraisal for the land value as well as a detailed breakdown of the expenses of the proposed development which is then reviewed against the 50% substantial improvement standard.

Limited resources make it difficult for staff to sustain the floodplain management program.

Compliance History

The Village of Port Jefferson enrolled in the NFIP on March 2, 1983. The most recent flood maps are from September 25, 2009. The Village is in good standing in the program. The Village's most recent Community Assistance Visit (CAV) took place on August 29, 2012.

Regulatory

Chapter 145 Flood Damage Prevention of the Village Code was last amended in 2009. The Village's floodplain management program meets minimum requirements.

Community Rating System

The Village of Port Jefferson does not participate in the Community Rating System and does not have any plans to join at this time.

9.13.6 Integration with Other Planning Initiatives

As this HMP update is implemented, the Village of Port Jefferson 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”:

- **Department of Planning and Building:** The mission of the Department of Planning and Building is to provide comprehensive and exemplary service to the community; to enhance the quality of life for all Village residents through excellence in planning and environmental stewardship which will, in turn, assure the Village’s ability to meet the challenges of future growth and change.
- **Department of Public Works:** The Department of Public Works was created to merge the Parks Department with the Highway Department. Lead by Superintendent Steve Gallagher, the department works emptying garbage pails, cutting the lawns, sweeping the streets, watering flowers, paving potholes, replacing drainage drywells, removing snow, leaves, branches and debris from roadways.
- **Emergency Management:** It is the mission of the Fire Marshal & Emergency Management Office to prevent and/or reduce the incidence of fire and other man-made or natural incidents by increasing the awareness and knowledge of the residents and businesses respecting emergency preparedness. The Office actively participates with the community, and strives to effectively and efficiently utilize all resources made available, to provide safety and excellent customer service to the citizens, businesses and visitors of the Village of Port Jefferson.

The Port Jefferson Fire Marshal’s & Emergency Management Office protects life and property from fires, explosion, and man-made and natural hazards through aggressive investigation of fire and hazardous materials incidents, fire protection inspection services, enforcement of the State and local Fire Prevention laws, and public safety education. Fire Marshals technical planning and emergency response assistance to the Port Jefferson Fire and EMS Agencies Emergency management operations including planning and coordination of activities to prepare, respond and mitigate planned events and emergency incidents.

Opportunities for Future Integration

- The Village is working with FEMA to determine what programs (such as the Community Rating System) would work best for the Village of Port Jefferson.

9.13.7 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

The Village of Port Jefferson has not identified evacuation routes other than those that Suffolk County has identified. The Village coordinates with Suffolk County on evacuation decisions.



Sheltering

The Village of Port Jefferson relies on the American Red Cross for sheltering

Temporary Housing

The Village of Port Jefferson has identified the Perry Street lot for the placement of temporary housing to house residents displaced by a disaster. Another 6 acres by the Highlands area could be used as a backup location.

Permanent Housing

The Village of Port Jefferson has not identified any locations suitable for relocating homes outside of the floodplain as the Village is built out.

9.13.8 Hazard Event History Specific to the Village of Port Jefferson

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 Port Jefferson’s history of federally-declared (as presented by FEMA) and significant hazard events (as presented in NOAA-NCEI) is consistent with that of Suffolk. Table 9.13-11 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 9.13-11. 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.	Although the County was impacted, the Village of Port Jefferson did not report any damages.
August 4, 2015	Thunderstorm Wind, Hail	No	An approaching cold front triggered a cluster of severe thunderstorms producing multiple macrobursts that impacted the North Shore of Long Island, from Northwest Nassau County onto the North Fork of Long Island. Hail of 1.75 inches was reported in Mount Sinai. Hail of 1 inch was reported in Shoreham. A gust of 71 mph was measured at Great Gull Island. A wind	Multiple trees were reported down throughout the Village of Port Jefferson, resulting in \$10K in property damage. Damage due to wind related issues (fallen trees, fallen limbs)



Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
			gust of 95 mph was measured on the roof of Stony Brook University's Health Sciences Tower	
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 of Port Jefferson did not report any damages.
October 2019	Severe Rainstorm	No	4 inches of rain in 30 – 60 minutes. Stormwater runoff. Occurred during low tide so flooding event was less significant than it could have been. Significant damage to buildings that are not within the 100 year floodplain	Severe flooding, property damage due to flooding
October 16-17, 2019	High Wind	No	High winds occurred behind a deep low pressure.	The broadcast media reported large trees down in Selden at 745 pm on the 16th, and large trees down across many roads in Port Jefferson around 745 pm. Several trees and branches were broken in Sunken Meadow Park. In Caumsett Park, a small tree fell against an open shed with some damage to the gutter and roof. Northwest Suffolk reported \$100K in property damage.

Notes:

FEMA Federal Emergency Management Agency

DR Major Disaster Declaration (FEMA)

9.13.9 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 Town of Babylon. 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 9.13-12. 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			
Noah's Ark Day Care Center of Port Jefferson, Inc.	Day Care	X	-	X	Unknown	2020-Port Jefferson-012
Judges Oshrin/Mazzei*	County Building	X	-	X	Unknown	2020-Port Jefferson-012
Port Jefferson Village Hall	Polling Location	X	-	X	Village Hall is elevated but may not be at 500-year level	2020-Port Jefferson-011
Port Jefferson Village Hall*	Municipal Building	X	-	X	Village Hall is elevated but may not be at 500-year level	2020-Port Jefferson-011
Barnum Avenue*	Transportation	X	-	X	Yes	-
Main Street*	Transportation	X	-	X	Unknown, NYS DOT owned	2020-Port Jefferson-012
Port Jefferson Ferry Dock*	Transportation	X	-	X	Unknown	2020-Port Jefferson-012
Main Street*	Transportation	X	-	X	Unknown, NYS DOT owned	2020-Port Jefferson-012
Miller Marine Services, Port Jefferson M	Port Facility	-	X	X	Unknown	2020-Port Jefferson-012



Name	Type	Exposure			Complies with NYS Standards	Addressed by Proposed Action
		1% Event		0.2% Event		
		A-Zone	V-Zone			
Fire Department: 15 Maple Place	Fire	X	-	X	No	2020-Port Jefferson-007
Parks Department: Barnum Avenue and Rossner Way	Municipal Building	X	-	X	No	2020-Port Jefferson-008

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 Port Jefferson. The Village of Port Jefferson 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 Port Jefferson indicated the following:

- The Village changed the hazard ranking for flood from medium to high, citing past events and an extensive floodplain.
- The Village changed the hazard ranking for severe winter storm from medium to high, noting that the terrain and topography of the Village makes winter storms very impactful.
- The Village changed the hazard ranking for shallow groundwater from low to medium, noting that the flood table is rising.
- The Village agreed with the remainder of the calculated hazard rankings.

Table 9.13-13. Hazard Ranking

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



Identified Issues

The Village of Port Jefferson has identified the following vulnerabilities within their community:

- The Village has an extensive shoreline within its jurisdictional boundary, including areas on Long Island Sound, Port Jefferson Harbor, Mt. Sinai Harbor and various tidal creek tributaries. Coastal erosion and flooding are two significant hazards that impact the Village due to local geography. Losses have been suffered within public recreation areas, including Village beaches and their associated infrastructure, as well as, drainage system and road damage village-wide. Road and parking area subsidence, losses of public structures and amenities, and damage to stormwater conveyance and storage units have all been the result of recent storm and weather related events. Additionally, there have been significant signs of further storm-related damage such as bluff de-stabilization at the Village's County Club. This may lead to future losses at this and other Village locations.
- Many streets in downtown Port Jefferson contain both commercial and residential properties (including Village Hall) and are located in the FEMA flood zone. These properties are susceptible to flooding and wind damage from storm surges, severe storms, winds, etc.
- The Firehouse is in the flood zone. The Village is working to identify a suitable location to move the firehouse to.

9.13.10 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 9.13-15). 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.



Table 9.13-14. 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	
VPJ-1 (former VPJ-7, -8 and -9)	Compile Emergency Management, Hazard Mitigation and Disaster Recovery Plan (Sandy HMGP LOI #136)	<ul style="list-style-type: none"> Coastal Erosion Drought Earthquake Flooding (riverine, flash, coastal, and urban flooding) Groundwater Contamination (natural) Hurricane (tropical cyclones, including tropical storms and tropical depressions) Infestation (Asian Longhorn Beetle, Lyme Disease and West Nile Virus) Nor'easters (extra-tropical cyclones, including severe winter low-pressure systems) Severe Storms (windstorms, thunderstorms, hail, lightning and tornados) Severe Winter Storm (heavy snow, blizzards, ice storms) Shallow Groundwater Wildfire 	Village of Port Jefferson: Administrator/Clerk		In Progress; Emergency Document in place. County Plan in place.			<ul style="list-style-type: none"> Include in 2020 HMP Develop Disaster Recovery Plan



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.
		<ul style="list-style-type: none"> • Expansive Soils • Other 						
VPJ-2	Standby Generator for Village EOC	<ul style="list-style-type: none"> • Coastal Erosion • Drought • Earthquake • Flooding (riverine, flash, coastal, and urban flooding) • Groundwater Contamination (natural) • Hurricane (tropical cyclones, including tropical storms and tropical depressions) • Infestation (Asian Longhorn Beetle, Lyme Disease and West Nile Virus) • Nor'Easters (extra-tropical cyclones, including severe winter low-pressure systems) <ul style="list-style-type: none"> • Severe Storms (windstorms, thunderstorms, hail, lightning and tornados) • Severe Winter Storm (heavy snow, blizzards, ice storms) • Shallow Groundwater • Wildfire 	Village of Port Jefferson: Administrator/Clerk		Complete	Cost		<ol style="list-style-type: none"> 1. Discontinue 2. 3. Complete
						Level of Protection		
						Damages Avoided; Evidence of Success		



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.
		<ul style="list-style-type: none"> Expansive Soils Other 						
VPJ-3	Drainage System Improvements Along Barnum Avenue	<ul style="list-style-type: none"> Flooding (riverine, flash, coastal, and urban flooding) Groundwater Contamination (natural) Hurricane (tropical cyclones, including tropical storms and tropical depressions) 	Village of Port Jefferson: Steve Gallagher, Highway Department Superintendent		Complete. Grant from DEC. Cleaned and improved structures in 2017	Cost		<ol style="list-style-type: none"> Discontinue Complete
VPJ-4	Develop a Beach Maintenance Plan for the Village's Public Recreation Areas at East Beach and West Beach	<ul style="list-style-type: none"> Coastal Erosion Flooding (riverine, flash, coastal, and urban flooding) Hurricane (tropical cyclones, including tropical storms and tropical depressions) Nor' Easters (extra-tropical cyclones, including severe winter low-pressure systems) Severe Storms (windstorms, 	Village of Port Jefferson: Administrator/Clerk		In Progress. Working with NYS DEC. Erosional issues. Finalizing permit to stabilize bluff.	Cost	Level of Protection	<ol style="list-style-type: none"> Include in 2020 HMP



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.
		thunderstorms, hail, lightning and tornados • Severe Winter Storm (heavy snow, blizzards, ice storms)						
VPJ-5	Complete Critical Jetty Extension/Revetment at the West Jetty Mt. Sinai Harbor	<ul style="list-style-type: none"> • Coastal Erosion • Flooding (riverine, flash, coastal, and urban flooding) • Hurricane (tropical cyclones, including tropical storms and tropical depressions) • Nor'easters (extra-tropical cyclones, including severe winter low-pressure systems) • Severe Storms (windstorms, thunderstorms, hail, lightning and tornados) 	Village of Port Jefferson: Steve Gallagher, Highway Department Superintendent		Complete	Cost		1. Discontinue 2. 3. Complete
VPJ-6	Assess and prioritize options to retrofit, acquire, or relocate structures located in hazard-prone areas, and implement as funding becomes available. Implementation is further supported by county-led initiatives identified below.	Coastal Erosion, Earthquake, Expansive Soils, Flood, Hurricane, Nor'Easter, Severe Storm, Shallow GW, Wildfire	Village – NFIP FPA; supported by NYSOEM and FEMA		In Progress	Cost		1. Include in 2020 HMP 2. 3.
VPJ-7	Support and participate in county led initiatives intended to build local and regional mitigation and risk-reduction	All Hazards	Suffolk County, as supported by relevant local department leads		Ongoing Capability	Cost		1. Discontinue 2.
						Level of Protection		
						Damages Avoided; Evidence of Success		
						Level of Protection		
						Damages Avoided; Evidence of Success		



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
(former VPJ-7, -8. - 10)	<p>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 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 					Evidence of Success		<p>1. Project to be included in 2020 HMP or Discontinue</p> <p>2. If including action in the 2020 HMP, revise/reword to be more specific (as appropriate).</p> <p>3. If discontinue, explain why.</p> <p>3. Ongoing Capability</p>



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.
	private property owners) <ul style="list-style-type: none"> County-Wide Debris Management Plan Create a Multi-Jurisdictional Seismic Safety Committee in Suffolk County (build regional, county and local capabilities to manage seismic risk, both pre- and post-disaster) 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). 							
VPJ-8	Assess and prioritize options to manage stormwater and improve drainage throughout the Village, and implement as	Flood, Hurricane, Nor'Easter, Severe Storm, Shallow GW, Winter Storm	Village Engineer and DPW		In Progress	Cost		1. Include in 2020 HMP 2. Mill Creek Stormwater and Watershed Study;
						Level of Protection		
						Damages Avoided;		



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.
						Evidence of Success		
	funding becomes available. See also Drainage System Improvements Along Barnum Avenue project identified above.					Evidence of Success		3.
VPJ-9	Create dunes between West Beach and East Beach to provide toe protection to the shoreline bluff under the Village's Country Club.	<ul style="list-style-type: none"> Coastal Erosion Flooding (riverine, flash, coastal, and urban flooding) Hurricane (tropical cyclones, including tropical storms and tropical depressions) Nor'easters (extra-tropical cyclones, including severe winter low-pressure systems) Severe Storms (windstorms, thunderstorms, hail, lightning and tornados) Severe Winter Storm (heavy snow, blizzards, ice storms) 	Village of Port Jefferson: Administrator/Clerk		No Progress; DEC not allowing dunes. Seeking to extend revetment wall instead.	Cost		<ol style="list-style-type: none"> 1. Include in 2020 HMP 2. Seeking to extend revetment wall instead 3.
Brookhaven	Port Jefferson Pier Rehabilitation	Coastal Erosion, Flooding, Hurricane, Nor'Easters, Severe Storms, Severe Winter Storm	Town of Brookhaven: Matt Miner, Deputy Supervisor		Complete; reinforced pier in 2018.	Cost		<ol style="list-style-type: none"> 1. Discontinue 2. 3. Complete



Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy

The Village of Port Jefferson 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:

- None identified

Proposed Hazard Mitigation Initiatives for the HMP Update

The Village of Port Jefferson 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 9.13-15 summarizes the comprehensive-range of specific mitigation initiatives the Village of Port Jefferson 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 9.13-16 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 9.13-15. 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-Port Jefferson-001	Develop Disaster Recovery Plan	1, 7, 8	All Hazards	Problem: The Village lacks a Disaster Recovery Plan.	No	None	Within 2 years	Administrator/ Clerk	\$5,000	Disaster Recovery Plan established	Village budget	High	LPR	ES
				Solution: The Village will develop a Disaster Recovery Plan.										
2020-Port Jefferson-002	Maintenance Plan for Recreational Beaches	1, 4, 5	Coastal Erosion	Problem: The Village lacks a Beach Maintenance Plan for the Village's Public Recreation Areas at East Beach and West Beach. The beaches have erosional issues.	No	None	Within 1 year	Administrator/ Clerk	\$1,000	Maintenance Plan established	Village budget	High	NSP	NR
				Solution: The Village will develop a Beach Maintenance Plan for the beaches. The Village will continue working with NYS DEC to finalize a permit to stabilize bluff.										
2020-Port Jefferson-003	Repetitive Loss Mitigation	1, 2	Flood, Severe Storm, Shallow Groundwater Flooding	Problem: Frequent flooding events have resulted in damages to residential properties. These properties have been repetitively flooded as documented by paid NFIP claims. The center of the Village tends to be most flood prone due to the topography sloping inwards. 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).	No	None	3 years	Administrator/ Clerk	\$3 million	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-Port Jefferson-004	Mill Creek Stormwater and Watershed Study	2, 3, 4, 5	Flood, Severe Storm, Shallow	Problem: The Mill Creek Watershed has stormwater issues that need to be addressed to lower flood risk. Solution: The Village will assess and prioritize options to manage	No	None	Within 2 years	Administrator/ Clerk	High	Stormwater issues identified and addressed.	NYS grant funding	High	LPR	SP





Table 9.13-15. 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
			Groundwater Flooding	stormwater and improve drainage in the Mill Creek Watershed. The study will include analysis of the culverts in the area. The Study will also include a Climate Resilience Plan.										
2020-Port Jefferson-005	Village-wide Stormwater Study	2, 3, 4, 5	Flood, Severe Storm, Shallow Groundwater Flooding	<p>Problem: The Village requires a Village-wide Stormwater and Drainage study to complete the work of the Mill Creek Stormwater and Watershed Study.</p> <p>Solution: The Village will assess and prioritize options to manage stormwater and improve drainage throughout the Village. This study will build off of the work done by the Mill Creek Stormwater and Watershed Study. The study will include analysis of the culverts in the area. This study will be used to make drainage and stormwater improvements in the Village and establish a Drainage Inspection and Maintenance Program which will outline the timeline for future maintenance and cleaning.</p>	No	None	Within 5 years	Administrator/Clerk	High	Stormwater issues identified and addressed, stormwater maintenance strategy adopted	Village budget	High	LPR	SP
2020-Port Jefferson-006	Shoreline Bluff Protection	1, 2, 3, 5	Coastal Erosion	<p>Problem: The Village bluffs have been impacted by erosion. Further erosion may result in collapse of areas of the bluff.</p> <p>Solution: The Village will work with NYS DEC for permitting to extend a revetment wall to protect the bluff from erosion.</p>	No	Requires permitting	Within 2 years	Administrator/Clerk	???	Bluff stabilized and protected from erosion	HMGP, BRIC, Village budget	High	NSP, SIP	NR, PP
2020-Port Jefferson-007	Fire Station Relocation	1, 2, 7	Flood	<p>Problem: The Village Fire Station at 115 Maple Place is located in the floodplain. Past flooding has resulted in damages and the loss of a fire engine.</p> <p>Solution: The Village will identify a new location for the Fire Station</p>	Yes	None	Within 5 years	Village Administration, Fire Department	High	Continuity of services protected, Fire Department protected from flood	FEMA HMGP and PDM, BRIC, USDA Community Facilities	High	SIP	PP



Table 9.13-15. 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
				outside of the floodplain and rebuild the facility.							Grant Program, Emergency Management Performance Grants (EMPG) Program, Village Budget			
2020-Port Jefferson-008	Parks Department	1, 2, 7	Flood	<p>Problem: The Parks Department is headquartered in a trailer located on Barnum Avenue and Rossner Way. This location is within the floodplain and provides critical services during emergency events.</p> <p>Solution: The Village will conduct a feasibility assessment to determine the most cost-effective solution to protect the Parks Department from flooding (elevation or relocation).</p>	Yes	None	Within 5 years	Village Administration, Parks Department	TBD by feasibility assessment	Critical services protected	FEMA HMGP and PDM, BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Village Budget	High	SIP	PP
2020-Port Jefferson-009	Problem Species Management	3, 4, 5	Infestation and Invasive Species	<p>Problem: The Village white tailed deer population has been problematic in the past. Private hunting has addressed this issue but a long term plan is needed. The Village's feral cat population has overwhelmed shelters.</p>	No	None	Within 5 years	Administration	Low	Low	Village budget	Medium	LPR	PR



Table 9.13-15. 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
				Both species contribute to environmental damage. Solution: The Village will develop a Problem Species Management Strategy to outline population control measures that can be taken and implement the plan.										
2020-Port Jefferson-010	Tree Management for Stormwater Protection	2, 5	Severe Storm, Severe Winter Storm, Flood	Problem: The Village's stormwater system has been impacted by tree debris that has led to clogs, increasing flood risk. Solution: The Village will survey trees that have impacts on the stormwater system and conduct trimming and removal to protect the stormwater system from future clogs.	No	None	Within 2 years	Department of Public Works	\$20,000	Stormwater system protected from future clogs from tree debris	Village budget	High	NSP	NR, SP
2020-Port Jefferson-011	Village Hall Flood Protection	1, 2, 7	Flood	Problem: The Port Jefferson Village Hall at 121 West Broadway is an elevated structure. However, it is unknown if the elevation is to the 500-year flood level. Solution: The Village Engineer will survey the elevation of Village Hall. If the elevation is below the 500-year flood level, the Village will move to elevate the structure further to meet the 500-year threshold.	Yes	None	Within 5 years	Engineer	Staff time for surveying, \$200,000 if elevation is necessary	Critical facility protected from flooding	FEMA HMGP and PDM, BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Village Budget	High	SIP	PP
2020-Port	Critical Facilities Outreach	2, 6	Flood	Problem: The Village has numerous critical facilities located within the 100-year floodplain. The following	Yes	None	Within 6 months	FPA	Staff time	Critical facility managers	Village budget	High	EAP	PI



Table 9.13-15. 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
Jefferson-012				critical facilities are located in the floodplain but are not Village owned: <ul style="list-style-type: none"> Noah's Ark Day Care Center of Port Jefferson, Inc. JUDGES OSHRIN/MAZZEI Main Street Port Jefferson Ferry Dock Miller Marine Services Solution: The FPA will conduct outreach with facility managers to discuss flood risk and potential mitigation actions.						aware of flood risk and potential mitigation measures				
2020-Port Jefferson-013	Coastal Erosion Monitoring Program	1, 2, 3, 5	Coastal Erosion	Problem: The Village has coastal erosion issues that have damaged beaches and bluffs. Solution: The Village will participate in the Suffolk County SWCD's proposed coastal erosion monitoring program.	No	None	Within 1 year	SWCD, Village Administration	Grant supported, Staff time	Data collected on shoreline retreat and volume loss to inform decision making and mitigation.	SCWD	High	LPR	PR

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 9.13-16. 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	Total	High / Medium / Low
2020-Port Jefferson-001	Develop Disaster Recovery Plan	1	0	1	1	1	1	1	1	1	1	1	1	1	1	13	High
2020-Port Jefferson-002	Maintenance Plan for Recreational Beaches	0	1	1	1	1	1	1	1	1	1	1	1	1	1	13	High
2020-Port Jefferson-003	Repetitive Loss Mitigation	1	1	1	1	1	1	0	1	0	0	1	0	1	1	10	High
2020-Port Jefferson-004	Mill Creek Stormwater and Watershed Study	1	1	1	1	1	1	1	1	1	1	1	0	1	1	13	High
2020-Port Jefferson-005	Village-wide Stormwater Study	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2020-Port Jefferson-006	Shoreline Bluff Protection	1	1	1	1	1	0	0	1	1	1	1	1	1	1	12	High
2020-Port Jefferson-007	Fire Station Relocation	1	1	1	1	1	1	0	1	1	1	0	0	1	1	11	High
2020-Port Jefferson-008	Parks Department	1	1	1	1	1	1	0	1	1	1	0	0	1	1	11	High
2020-Port Jefferson-009	Problem Species Management	0	1	0	1	0	1	1	1	1	1	0	0	1	1	9	High
2020-Port Jefferson-010	Tree Management for Stormwater Protection	0	1	1	1	1	1	1	1	1	1	1	1	1	1	13	High
2020-Port Jefferson-011	Village Hall Flood Protection	1	1	1	1	1	1	0	1	1	1	0	0	1	1	11	High
2020-Port Jefferson-012	Critical Facilities Outreach	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2020-Port Jefferson-013	Coastal Erosion Monitoring Program	0	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High

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



9.13.11 Proposed Mitigation Action Types

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

Table 9.13-17. Analysis of Mitigation Actions by Hazard and Category

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Coastal Erosion	2020-Port Jefferson -001, 2020-Port Jefferson -013	2020-Port Jefferson -006	2020-Port Jefferson -002, 2020-Port Jefferson -006,		2020-Port Jefferson -013	2020-Port Jefferson -006		2020-Port Jefferson -002, 2020-Port Jefferson -006		2020-Port Jefferson -001,
Cyber Security	2020-Port Jefferson -001,									2020-Port Jefferson -001,
Disease Outbreak	2020-Port Jefferson -001,									2020-Port Jefferson -001,
Drought	2020-Port Jefferson -001,									2020-Port Jefferson -001,
Earthquake	2020-Port Jefferson -001,									2020-Port Jefferson -001,
Expansive Soils	2020-Port Jefferson -001,									2020-Port Jefferson -001,
Extreme Temperature	2020-Port Jefferson -001,									2020-Port Jefferson -001,
Flood	2020-Port Jefferson -001, 2020-Port Jefferson -004, 2020-Port Jefferson -005,	2020-Port Jefferson -003, 2020-Port Jefferson -007, 2020-Port Jefferson -008, 2020-Port Jefferson -011	2020-Port Jefferson -010	2020-Port Jefferson -012		2020-Port Jefferson -003, 2020-Port Jefferson -007, 2020-Port Jefferson -008, 2020-Port Jefferson -011	2020-Port Jefferson -012	2020-Port Jefferson -010	2020-Port Jefferson -004, 2020-Port Jefferson -005, 2020-Port Jefferson -010	2020-Port Jefferson -001,
Groundwater Contamination	2020-Port Jefferson -001,									2020-Port Jefferson -001,
Hurricane	2020-Port Jefferson -001,									2020-Port Jefferson -001,
Infestation and Invasive Species	2020-Port Jefferson -001,				2020-Port Jefferson -009					2020-Port Jefferson -001,



Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
	2020-Port Jefferson -009									
Nor'easter	2020-Port Jefferson -001,									2020-Port Jefferson -001,
Severe Storm	2020-Port Jefferson -001, 2020-Port Jefferson -004, 2020-Port Jefferson -005,	2020-Port Jefferson -003,	2020-Port Jefferson -010			2020-Port Jefferson -003,		2020-Port Jefferson -010	2020-Port Jefferson -004, 2020-Port Jefferson -005, 2020-Port Jefferson -010	2020-Port Jefferson -001,
Severe Winter Storm	2020-Port Jefferson -001,		2020-Port Jefferson -010					2020-Port Jefferson -010	2020-Port Jefferson -010	2020-Port Jefferson -001,
Shallow Groundwater	2020-Port Jefferson -001, 2020-Port Jefferson -004, 2020-Port Jefferson -005,	2020-Port Jefferson -003,				2020-Port Jefferson -003,			2020-Port Jefferson -004, 2020-Port Jefferson -005,	2020-Port Jefferson -001,
Wildfire	2020-Port Jefferson -001,									2020-Port Jefferson -001,

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

9.13.12 Staff and Local Stakeholder Involvement in Annex Development

The Village of Port Jefferson 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: the Village Administrator, Highway Department, and Assistant Attorney. The Village Administrator 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 9.13-18. Contributors to the Annex

Name	Title/Entity	Method of Participation
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Joseph Palumbo	Village Administrator	Primary Point of Contact, attended plan participant meetings, provided impact data, contributed to mitigation strategy
Paul Penske	Highway Foreman	Attended plan participant meetings, provided impact data, contributed to mitigation strategy
Alison LaPointe	Assistant Attorney	Floodplain Administrator, attended plan participant meetings, provided impact data, contributed to mitigation strategy
Margot Garant	Mayor	Attended plan participant meetings, provided impact data, contributed to mitigation strategy

9.13.13 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Village of Port Jefferson 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 Port Jefferson has significant exposure.



Figure 9.13-1. Village of Port Jefferson Hazard Area Extent and Location Map

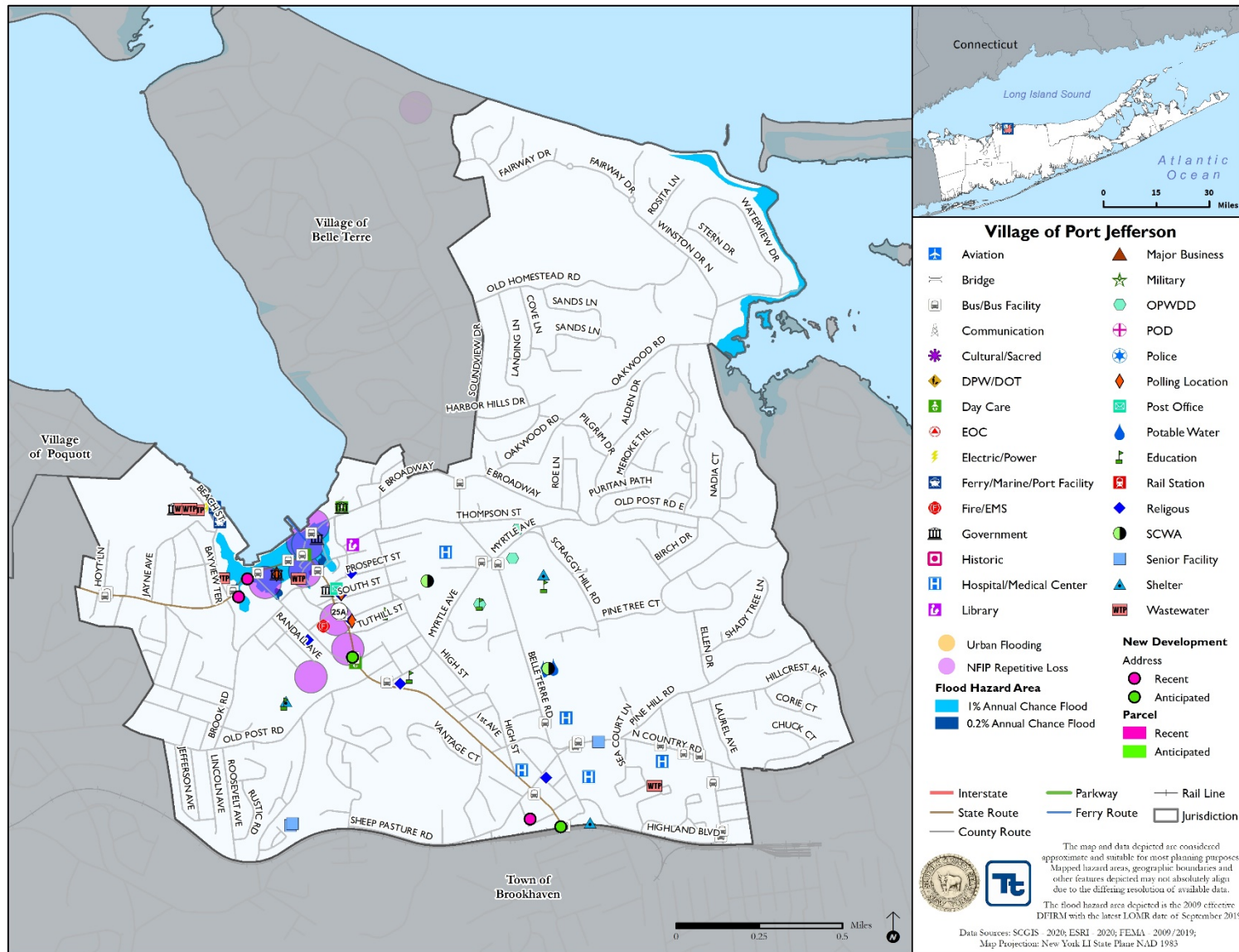




Figure 9.13-2. Village of Port Jefferson Hazard Area Extent and Location Map 2

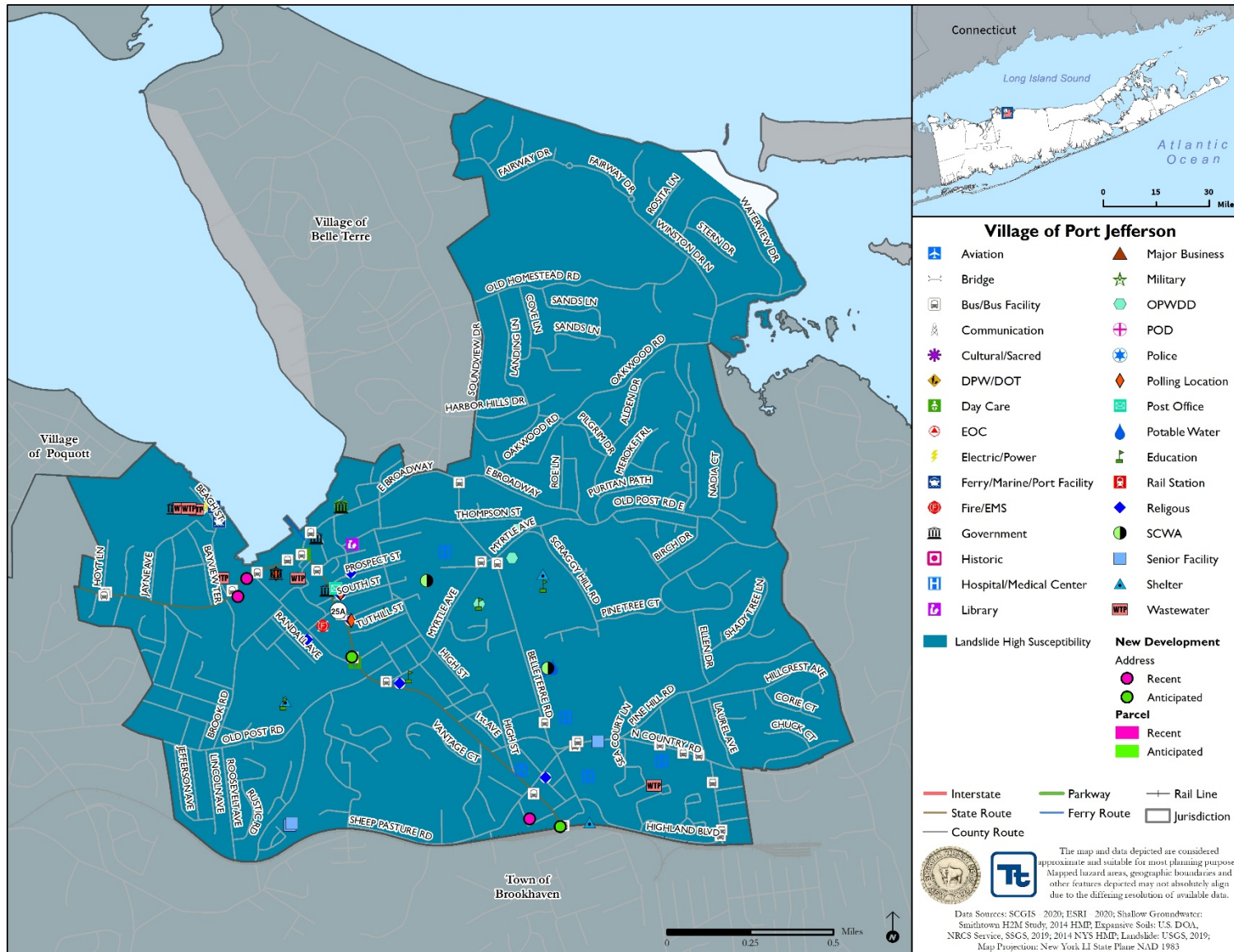




Figure 9.13-3. Village of Port Jefferson Hazard Area Extent and Location Map 3

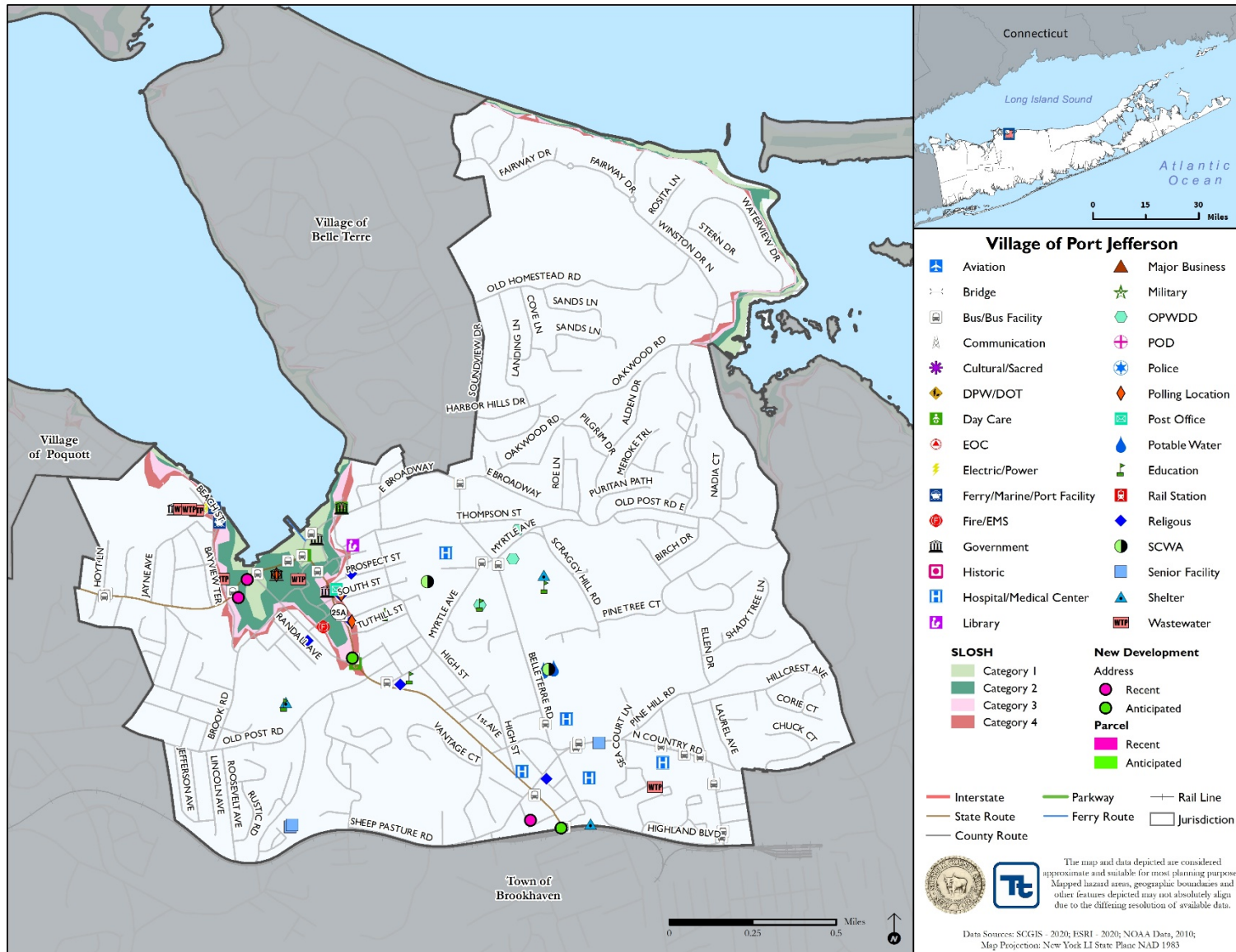




Figure 9.13-4. Village of Port Jefferson Hazard Area Extent and Location Map 4

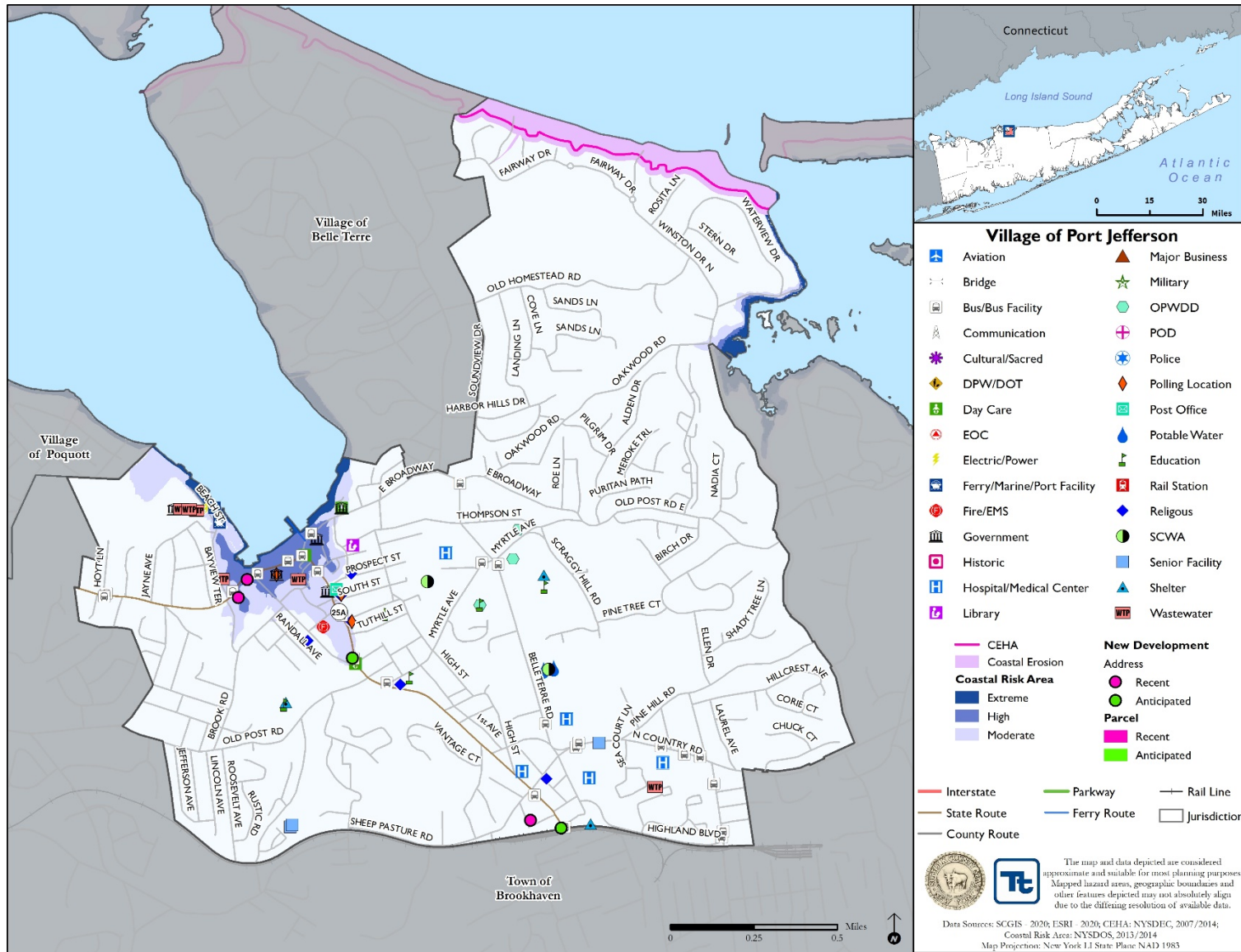




Figure 9.13-5. Village of Port Jefferson Hazard Area Extent and Location Map 5

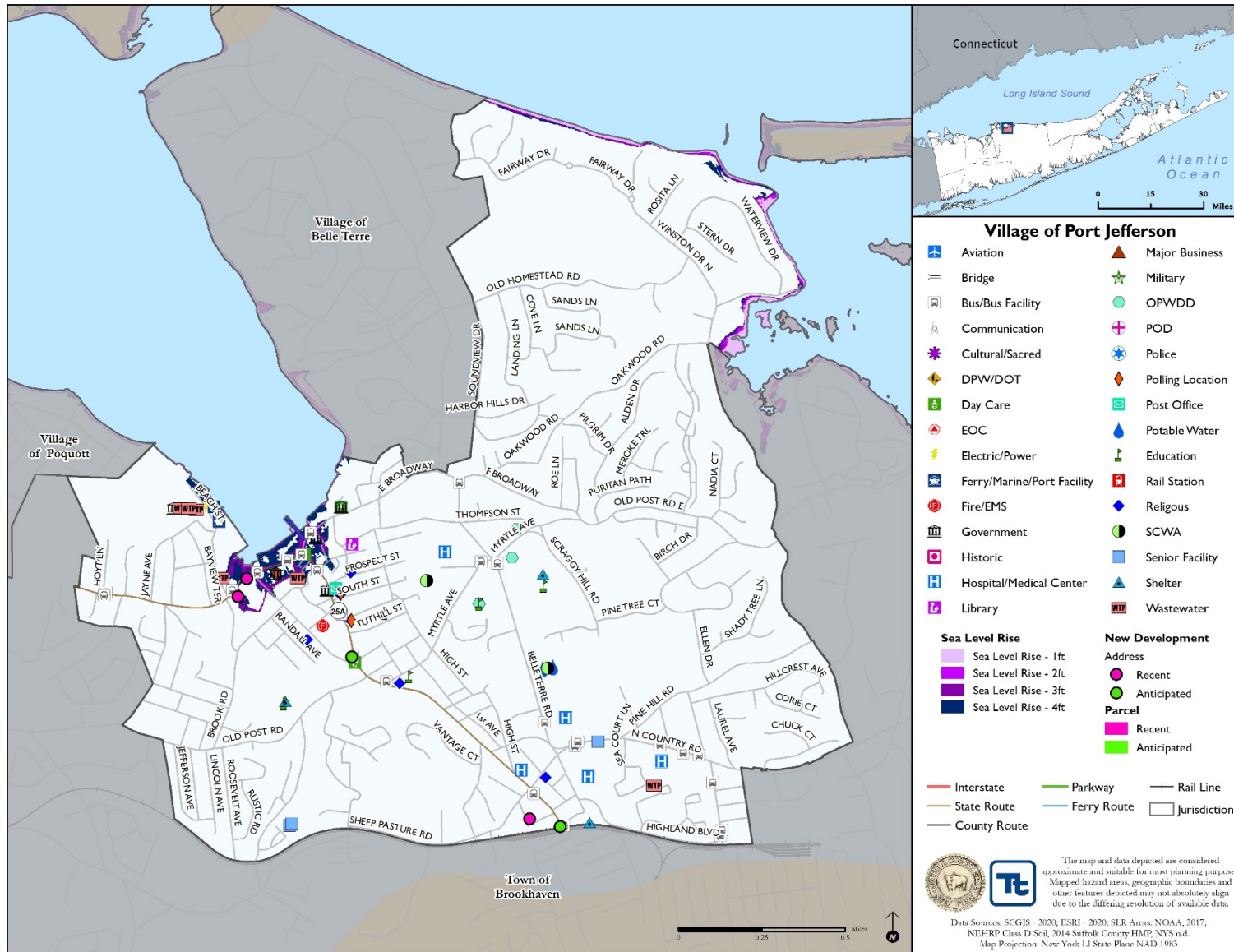
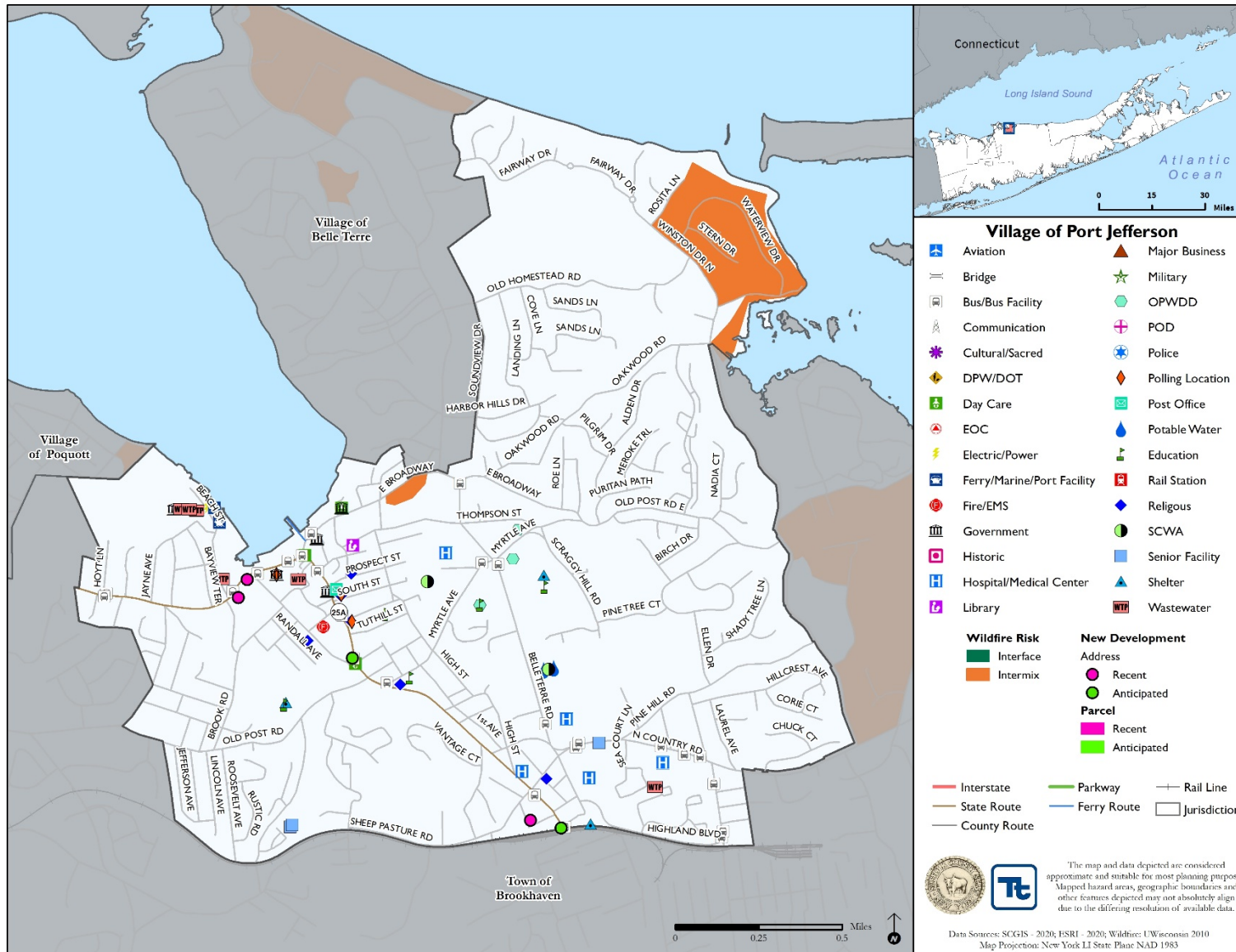




Figure 9.13-6. Village of Port Jefferson Hazard Area Extent and Location Map 6





Action Worksheet			
Project Name:	Repetitive Loss Mitigation		
Project Number:	2020-Port Jefferson-003		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm, Shallow Groundwater Flooding		
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. The center of the Village tends to be most flood prone due to the topography sloping inwards.		
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 Mitigation	
Project Number:	2020-Port Jefferson-003	
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:	Shoreline Bluff Protection		
Project Number:	2020-Port Jefferson-006		
Risk / Vulnerability			
Hazard(s) of Concern:	Coastal Erosion		
Description of the Problem:	The Village bluffs have been impacted by erosion. Further erosion may result in collapse of areas of the bluff.		
Action or Project Intended for Implementation			
Description of the Solution:	The Village will work with NYS DEC for permitting to extend a revetment wall to protect the bluff from erosion. Once permits have been secured, the Village will construct the revetment wall.		
Is this project related to a Critical Facility?	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"/>	
(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):	Protects bluff from erosion damage and collapse
Useful Life:	50 years	Goals Met:	
Estimated Cost:	High	Mitigation Action Type:	Natural Systems Protection, Structure and Infrastructure Projects (SIP)
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 5 years
Estimated Time Required for Project Implementation:	Within 2 years	Potential Funding Sources:	FEMA HMGP, BRIC, Village Budget
Responsible Organization:	Village Administrator/Clerk	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	Problem continues.
	Renourishment of beaches below bluff	\$750,000	Permits still required, beach width may still be overrun by wave action during flooding events
	Reslope bluff	\$200,000	Unlikely to be allowed by NYS DEC
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Shoreline Bluff Protection	
Project Number:	2020-Port Jefferson-006	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect beach goers from danger of bluff collapse.
Property Protection	1	Project will protect infrastructure near bluff from coastal erosion damage.
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	0	The project requires permitting from NYS DEC
Fiscal	0	Project requires funding support.
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Coastal Erosion, Hurricane, Nor'Easter
Timeline	1	Within 2 years
Agency Champion	1	Village Administrator/Clerk
Other Community Objectives	1	
Total	12	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Fire Station Relocation		
Project Number:	2020-Port Jefferson-007		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood		
Description of the Problem:	The Village Fire Station at 115 Maple Place is located in the floodplain. Past flooding has resulted in damages and the loss of a fire engine.		
Action or Project Intended for Implementation			
Description of the Solution:	The Village will identify a new location for the Fire Station outside of the floodplain and rebuild the facility to protect it to the 500-year flood elevation.		
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:	100 years	Goals Met:	1, 2
Estimated Cost:	High	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:	2 years	Potential Funding Sources:	FEMA HMGP and PDM, BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Village Budget
Responsible Organization:	Village Administration, Fire Department	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.
	Elevate the Fire Department	N/A	Not possible, due to need for garage facility at ground level.
	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:	Fire Station Relocation	
Project Number:	2020-Port Jefferson-007	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of Fire Department
Property Protection	1	Project will protect Fire Department 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	Village Administration, Fire Department
Other Community Objectives	1	Protection of critical services
Total	11	
Priority (High/Med/Low)	High	