



9.3 Village of Amityville

This section presents the jurisdictional annex for the Village of Amityville.

9.3.1 Hazard Mitigation Plan Point of Contact

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

Primary Point of Contact	Alternate Point of Contact
Diane Sheridan, Administrator/Clerk 21 Ireland Place Amityville, NY 11701 Phone: 631-264-7648 E-mail: dsheridan@amityville.com	Thomas Whalen, Code Enforcement Officer 21 Ireland Place Amityville, NY 11701 Phone: 631-691-1909 E-mail: twhalen@amityville.com

9.3.2 Municipal Profile

This section provides a summary of the community.

Population

According to the U.S. Census, the 2010 population for the Village of Amityville was 9,523.

Location

The Village of Amityville is the located on the south shore and western border of Suffolk County. The Village is bordered on the south by the Atlantic Ocean. An 8.5-mile-long inhabited barrier island that prevents direct ocean wave impact along Amityville’s South Shore lies between the Atlantic Ocean and the Great South Bay. This island, known as Jones Island, was created by the Long Island State Parks Commission from several smaller islands in the early 1900s. The waterfront area of the village is highly developed, primarily with residences, as depicted in the aerial photographs below, showing portions of our frontage along the Great South Bay.



The Village of Amityville contains 9,523 people in 2.5 square miles. The Village has 30.4 miles of roads. Electric service is provided by the Long Island Power Authority (LIPA); water service is supplied by the Suffolk County Water Authority. The entire village is served by SCDPW Sewer District 3, with lift stations (one in the Village and one in Town of Babylon) serving as the only mechanisms to carry sewage upgrade to the treatment plant in West Babylon. The Village is characterized by many areas of high groundwater, and is served by public water. Most of the Village has predominantly sandy soil.

The Village of Amityville is known for a picturesque downtown, Victorian architecture, and its location along the water¹. Merrick Road is an important commercial corridor. Many commercial businesses in the village relate to the maritime industry- boat repair shops, boat/yacht clubs, etc. Following are pictures from the Village of Amityville’s website illustrating the quaint seaside village:

¹ New York Rising Community Reconstruction Program. “Conceptual Plan – Village of Amityville/Copiague”. October 2013. http://stormrecovery.ny.gov/sites/default/files/crp/community/documents/concept_plan_amityville-copiague_1106131.pdf

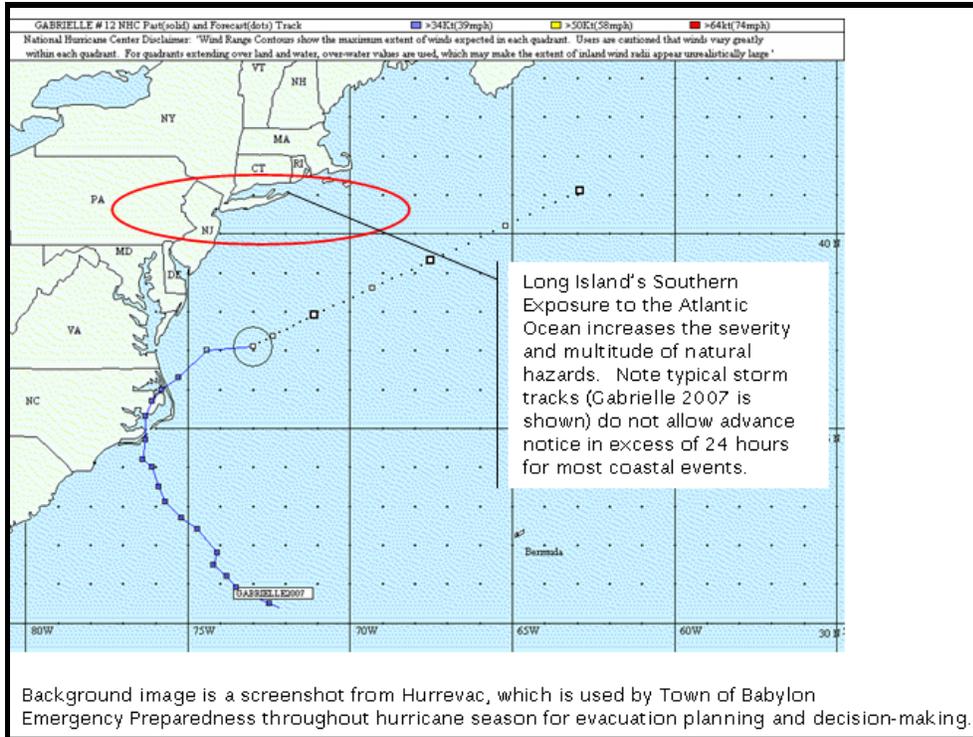


Credit: Billy Lozowski



The Village's population has increased 4% over the past 20 years, as most land in the village was densely developed by 1975. Most growth in population since that time has occurred as a result of undocumented peoples residing without local authorization, yet, under the New York State home rule system, the Village is responsible for this population in case of natural disaster. Amityville Village maintains its own professional police force, and relies on the Amityville Village volunteer fire department for Fire Service and EMS. The Villages have boards which will be responsible for the adoption of the Hazard Mitigation Plan.

Though FEMA may typically consider life and safety issues beyond the jurisdiction of most hazard mitigation plans, the mitigation planning initiative that is most important to the life and safety of our residents could never be accounted for within any other FEMA or DHS response or preparedness plan. Not to stray into the territory of response plans, even with the best possible evacuation plan, and an unlimited amount of personnel to carry it out, the laws of physics still prevail. It is certainly possible, and even probable, based on documented weather patterns, that amount of time to evacuate will far exceed the amount of notice of a significant event. Thus, that is why the Village of Amityville turns to mitigation efforts, because if we do not reduce the exposure and vulnerability of our mainland population and infrastructure by securing our barrier islands, we will sustain unprecedented loss of life, destruction of essential infrastructure, and devastation of our economy from which it will take many years to recover.



Climate

The climate is moderate, consistent with other coastal communities in the Northeastern United States. Average temperatures range from the low 30's degrees Fahrenheit (°F) to mid 70's (°F). Precipitation averages 3 to 4 inches per month. Average annual rainfall has sharply increased in the past 5-10 years. On average, snowfall is limited to November through April, with highest accumulations in January. The humidity ranges from approximately 55% and 80% throughout the year.

Brief History

The Village of Amityville's website describes the Villages history as follows:

First settled in the 1600's, it was not until March 3rd, 1894 that it became the Incorporated Village of Amityville. In its infancy, the "friendly bay village", as it has come to be known, was primarily a farming community that had strong ties to the fishing and boating industries. Salt hay was an important agri-product that was grown to feed livestock. But the farms and marine industries slowly gave way to the needs of summer visitors in search of comforts afforded by the cool breezes and beaches of the Great South Bay. Hotels, long since gone, supplanted the farms and marine industries that were located along the waterfront. The hordes of summer visitors that discovered early Amityville included stage and theater personalities, prominent members of society including businessmen, artists, writers and the so-called "rich and famous" Manhattanites.

Although within the geographical boundaries of the Town of Babylon, residents of the Village enjoy the benefits of a local police force, fire department and public works department. Residents are taxed by the Village for these services and by the Town and County for school taxes and other public services, such as trash removal. The Village is part of the Amityville Public School District.



Within the Village boundaries, there are numerous parks and public spaces for all to enjoy. They include:

- Village Triangle and Gazebo - on Broadway between Sunrise Highway and Merrick road
- Avon Lake - landscaped area at East and West Lake Drives
- Delano Nature Trail - Union Avenue, East of Broadway
- Edmund W. Pearsall Park - natural rest area on Bayview Avenue
- James A. Caples Memorial Park - Southern end of Bayview Avenue, with a playground, lighted softball fields, boat ramp
- Peterkin Park - Oak Street, with playground, pond and footpath
- 9/11 Memorial Park - center of the Village on Broadway
- Nautical Park - Southeast corner of Merrick Road and Ocean Avenue, waterside park with benches, paths and band-shell
- Maxine Postal Memorial Park - Unqua Place on the Great South Bay, in memory of Legislator Maxine Postal, 15th Leg. District
- Amityville Beach Complex - Southern end of Bayview Avenue, with concession stand, beach and fishing pier
- Police and Firefighters Memorial Park – Southside of Oak Street between Ketcham and Burch Avenues

Governing Body Format

The Village has a board which will be responsible for the adoption of this Hazard Mitigation Plan. The Village Board consists of an elected Mayor and 4 elected Trustees.

Growth/Development Trends

None identified at this time. Additional community profiling information, including geographic area and data, general demographics, income and poverty, employment and housing may be found in the Village’s New York Rising Community Reconstruction Program Conceptual Plan available at: http://stormrecovery.ny.gov/sites/default/files/crp/community/documents/concept_plan_amityville-copiague_1106131.pdf.

Table 9.3-1. Growth and Development

Property Name	Type (Residential or Commercial)	Number of Structures	Location (address and/or Parcel ID)	Known Hazard Zone*	Description / Status
None identified at this time					

* Only location-specific hazard zones or vulnerabilities identified.

9.3.3 Natural Hazard Event History Specific to the Municipality

Suffolk County has a history of natural hazard events as detailed in Volume I, Section 5.0 of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities. The table below presents a summary of events that have occurred from 2008 to the present to indicate the range and impact of natural hazard events in the community. Information regarding specific damages is included if available based on reference material or local sources. For details of events prior to 2008, refer to Volume I, Section 5.0 of this plan.





Table 9.3-2. Hazard Event History

Dates of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
October 27-November 8, 2012	Hurricane Sandy	DR-4085	Yes – IA and PA	Neighborhoods south of the Montauk highway experienced severe flooding, downed trees, and telephone and power outages. Many businesses along the water were severely damaged. Please refer to NYRCRP documents for a summary of Hurricane Sandy damages to community
November 7, 2012	Nor’Easter	N/A	N/A	Damages experienced in community, recurrent for Nor’Easters
December 26-27, 2012	Nor’Easter	N/A	N/A	Damages experienced in community, recurrent for Nor’Easters. Many branches down.
February 8-9, 2013	Severe Winter Storm and Snowstorm	DR-4111	Yes - PA	Damages experienced in community

Note (1): NYRCRP: New York Rising Community Redevelopment Plan, documents found at <http://stormrecovery.ny.gov/community-reconstruction-program>

Note (2): Damage Estimates indicated as high (> 30% total replacement cost), medium (15-29% TRC), or low (<15% TRC)

EM Emergency Declaration (FEMA)

FEMA Federal Emergency Management Agency

DR Major Disaster Declaration (FEMA)

IA Individual Assistance

N/A Not applicable

PA Public Assistance

9.3.4 Hazard Vulnerabilities and Ranking

The hazard profiles in Section 5.0 of this plan have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the hazard vulnerabilities and their ranking in the Village of Amityville. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.0.

Hazard Risk/Vulnerability Risk Ranking

The table below summarizes the hazard risk/vulnerability rankings of potential hazards for Village of Amityville.

Table 9.3-3. Hazard Risk/Vulnerability Risk Ranking

Hazard Ranking	Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{a, c, e}	Probability of Occurrence ^b	Risk Ranking Score (Probability x Impact)
2	Coastal Erosion	RCV in CEHA: \$0	Frequent	39
10	Drought	Damage estimate not available	Rare	0
7	Earthquake	500-Year MRP: \$75,419,706 2,500-Year MRP: \$1,332,846,454	Rare	16



Hazard Ranking	Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{a, c, e}	Probability of Occurrence ^b	Risk Ranking Score (Probability x Impact)
9	Expansive Soils	Damage estimate not available	Rare	6
4	Flood	1% Annual Chance: \$131,466,183 0.2% Annual Chance: \$187,878,132	Frequent	30
8	Groundwater Contamination (natural)	Damage estimate not available	Occasional	14
3	Hurricane	Category 1 SLOSH: \$347,025,167 Category 2 SLOSH: \$1,261,172,046 Category 3 SLOSH: \$2,072,472,608 Category 4 SLOSH: \$3,283,770,716	Occasional	36
9	Infestation	No measurable impact to property	Frequent	3
1	Nor'Easter	100-Year RCV: \$187,592,283 500-Year RCV: \$13,573,962,156	Frequent	45
6	Severe Storm	100-Year RCV: \$187,592,283 500-Year RCV: \$13,573,962,156	Frequent	27
2	Severe Winter Storm	1% of GBS: \$24,265,548 5% of GBS: \$121,327,741	Frequent	39
7	Shallow Groundwater Flooding	Damage estimate not available	Frequent	18
10	Wildfire	Estimated RCV in Interface/ Intermix: \$0	Rare	0

- a. Building damage ratio estimates based on FEMA 386-2 (August 2001)
- b. The valuation of general building stock and loss estimates was based on the custom inventory developed for Suffolk County and probabilistic modeling results and exposure analysis as discussed in Section 5.
- c. The earthquake and hurricane wind hazards were evaluated by Census tract. The Census tracts do not exactly align with municipal boundaries; therefore, a total is reported for each Town inclusive of the Villages and the Tribes within the Town boundary.
- d. Frequent = Hazard event that occurs more frequently than once in 10 years; Occasional = Hazard event that occurs from once in 10 years to once in 100 years, Rare = Hazard event that occurs from once in 100 years to once in 1,000 years; None = Hazard event that occurs less frequently than once in 1,000 years
- e. The estimated potential losses for Nor'Easter and Severe Storm are from the HAZUS-MH probabilistic hurricane wind model results. See footnote c.

CEHA = Coastal Erosion Hazard Area
 GBS = General building stock
 MRP = Mean return period
 RCV = Replacement cost value

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the municipality.



Table 9.3-4. NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 100-year Boundary (3)	# Policies in 500-Boundary (3)	# Policies Outside the 500-year Flood Hazard (3)
Village of Amityville	1,096	1,532	\$83,461,980	227	40	757	20	319

Source: FEMA Region 2, 2014

Note (1): Policies, claims, repetitive loss and severe repetitive loss statistics provided by FEMA Region 2, and are current as of January 31, 2014. Please note the total number of repetitive loss properties excludes the severe repetitive loss properties. The number of claims represents the number of claims closed by January 31, 2014.

Note (2): Information regarding total building and content losses was gathered from the claims file provided by FEMA Region 2.

Note (3): The policies inside and outside of the flood zones is based on the latitude and longitude provided by FEMA Region 2 in the policy file. FEMA noted that where there is more than one entry for a property, there may be more than one policy in force or more than one GIS possibility.

Critical Facilities

The table below presents HAZUS-MH estimates of the damage and loss of use to critical facilities in the community as a result of a 1- and 0.2-percent annual chance flood events.

Table 9.3-5. Potential Flood Losses to Critical Facilities

Name	Type	Exposure		Potential Loss from 1% Flood Event			Potential Loss from 0.2% Flood Event		
		1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage	Days to 100-Percent ⁽²⁾	Percent Structure Damage	Percent Content Damage	Days to 100-Percent ⁽²⁾
Pump Station #9	Wastewater	Zone A	X						

Source: HAZUS-MH 2.1

Note: x = Facility located within the 0.2-percent annual chance flood boundary.

Please note it is assumed that wells have electrical equipment and openings are three-feet above grade.

(1) HAZUS-MH 2.1 provides a general indication of the maximum restoration time for 100% operations. Clearly, a great deal of effort is needed to quickly restore essential facilities to full functionality; therefore this will be an indication of the maximum downtime (HAZUS-MH 2.1 User Manual).

(2) In some cases, a facility may be located in the DFIRM flood hazard boundary; however HAZUS did not calculate potential loss. This may be because the depth of flooding does not amount to any damages to the structure according to the depth damage function used in HAZUS for that facility type.

Other Vulnerabilities Identified by Municipality

In addition to those identified above, the municipality has identified the following vulnerabilities:

- Backup power is needed for Public Works (upgrade) and Fire Department.

Due to the geographical exposure of Amityville’s shoreline, and the dense development along the Great South Bay frontage, even the slightest natural events can cause extensive disruption to the economy. For example, the Village of Amityville experiences impact to its roadways and drainage infrastructure approximately once a month, when the cycle of the moon causes a “high high tide”. Pictured below are the mainland results of a minor Nor’Easter, April 15, 2007 (DR-1692):

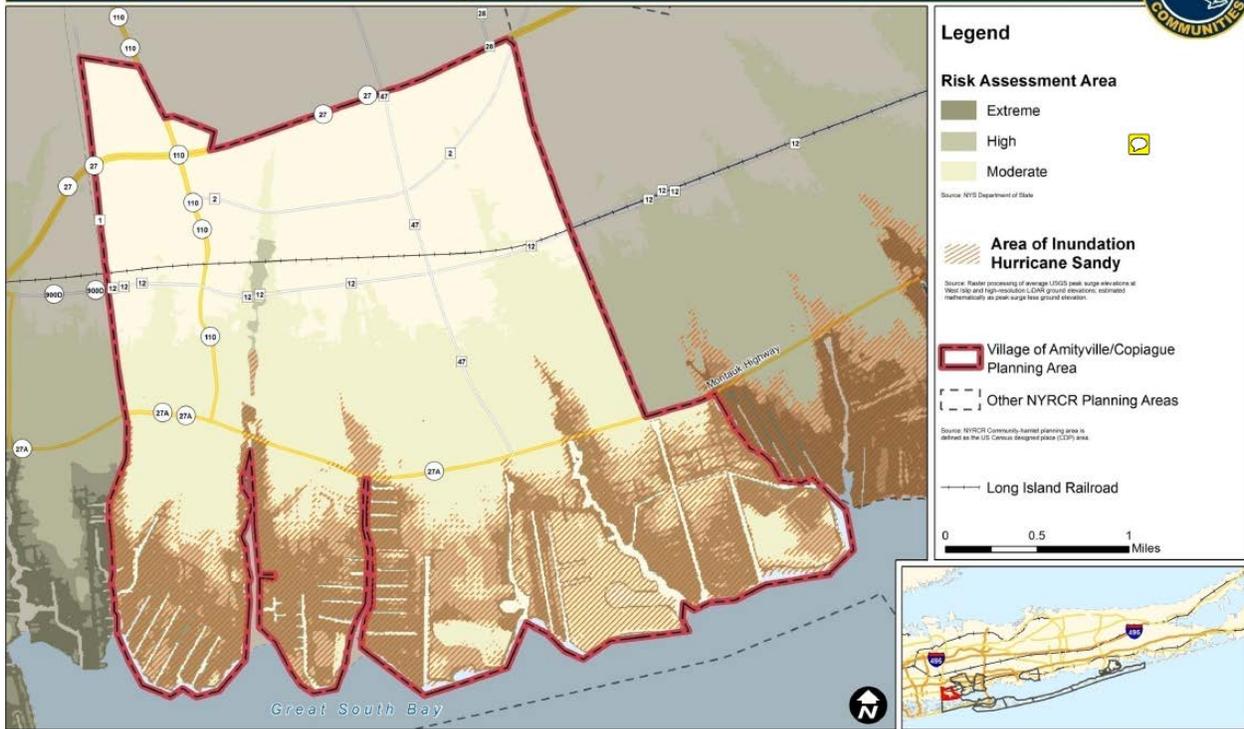


The damage to the mainland and to Jones Island (pictured above and below) while significant, is minor compared to the historical impact of Nor'Easters on the Village of Amityville. Due to our coastal vulnerability to north-easterly winds, 21 of the 26 events described in the Volume table entitled "Nor'Easter Events between 1931 and 2006" impacted our Village. Though precise data is not available for all storms, local emergency management officials estimate that 12 of the Nor'Easters experienced caused property, infrastructure and economic damage exceeding 30% of the Town's total replacement cost for the years of the events. Of particular note is that the Village of Amityville participated in all six of the Presidential Disaster Declarations for Nor'Easter events in Suffolk County, and even had to evacuate over 400 people for "The Storm of the Century" which occurred March 1993 (DR-974).

Superstorm Sandy in October 2012 caused massive flooding in the Village. The figure below shows the inundated areas. A description of the effects of Superstorm Sandy on the Village can be found in Section C, above. The NYRSCP process has identified relevant vulnerabilities and potential mitigation initiatives within the community, as documented in the NYRCRP planning documents available at <http://stormrecovery.ny.gov/community-reconstruction-program>. Key projects and initiatives identified in these documents are included in the updated mitigation strategy (Table F3), and elsewhere within this annex as noted.



NYRCR: Village of Amityville/Copiague Risk Assessment & Hurricane Sandy Inundation Areas



Source: New York Rising Community Reconstruction Program. “Conceptual Plan – Village of Amityville/Copiague”. October 2013.

Accompanying Nor’easters, and all other coastal storms, is Coastal Erosion. Due to the southerly-facing coast and the geology of the sand, erosion and accretion occur on a daily basis guided by wind and wave directions. The erosion along Jones Island exceeds the accretion, as man-made structures, erected along our coastline throughout history, have disturbed the littoral drift of necessary sediments that would ensure accretion along Jones Island. General descriptions of this hazard propagated in Volume I are not typical of Jones Island (Gilgo Beach), as we may suffer erosion losses of 5 feet per minor coastal event, including nor’easters. In fact, it is likely that Jones Island experiences one of the highest erosion rates along the entire Eastern seaboard. Erosion of Jones Island is an on-going event which can only be measured by day-to-day weather events. Refer to documentation in USACE projects from 1987 to present for further scientific analysis.

The coastal erosion threatening our barrier island endangers not merely our beaches or residences or a vital New York State Commuter Route. Should the island become structurally unsound, the only sewer outfall pipe for a Suffolk County sewage treatment plant serving over half of our population and commerce will fail, requiring expensive re-routing and reconstruction. But even should the sewer pipe be lost, the safety and welfare of the number of citizens directly physically endangered by any major coastal event, including nor’easters, rises from a few hundred people to our entire population. Depicted below is an example of how quickly erosion can occur. The seaward portion of dunes pictured existed just prior to DR-1692. Exposed by the recent erosion is an oil tank left behind by the US Coast Guard when the Gilgo Station was demolished in 1980s.

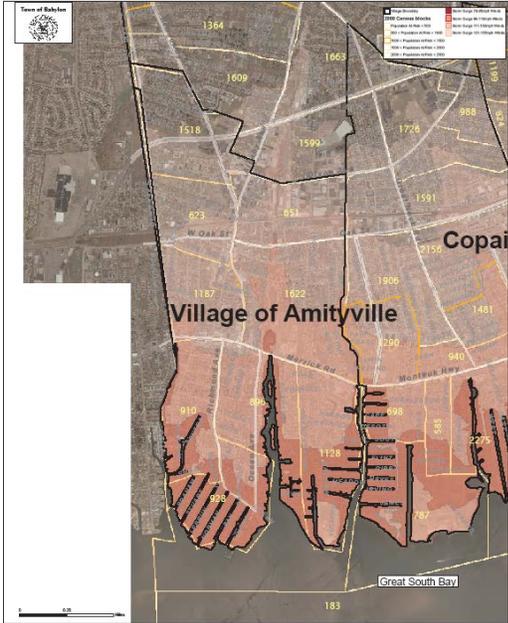




As Nor'Easters and Coastal Erosion occur quite frequently, considering the damage that may be sustained by the violent winds and flooding associated with hurricanes and other tropical cyclones paints an ominous picture of Long Island's future. Long Island, and the Village of Amityville in particular, has experienced only a minor portion of the damage amounts from Presidential Disaster Declarations that affected Long Island since 1954. Many of the worst hurricane events (i.e., 1938) hit well before the majority of development in Babylon, which occurred post- World War II. In the case of Hurricane Gloria, she hit Amityville at low tide, sparing our citizens from widespread coastal flooding.

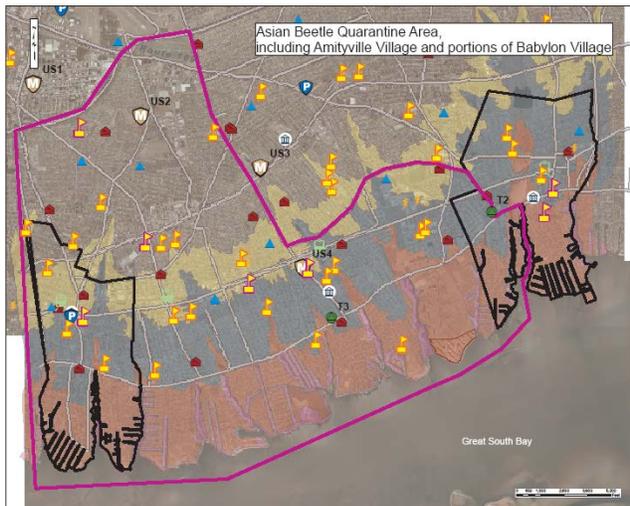
While Volume I contains a complete analysis of the natural hazard for Suffolk County in general, it is important to note the population analyses contained there-in indicate that all of the population within the Village would require evacuation to a jurisdiction north of the Village for a Category 2 or greater Hurricane. Amityville's Fire and Police operations would be very limited during a significant coastal event, and we would have to rely on the Town of Babylon for their support. The vulnerability assessment analysis in Volume I supports local knowledge that local emergency operations and fire/rescue efforts will most likely be severely disabled for several days.

It is because of these predictions, and other local emergency planning activities and mapping, that Jones Island is the best protection the Village has to mitigate the effects of hurricanes and tropical cyclones by increasing the amount of time available to transport and shelter residents, and to reduce the amount flood waters inundating streets and critical response facilities. Pictured below is are examples of maps created by Town of Babylon emergency preparedness, on the Village's behalf, to more clearly understand affected population and aid in mitigation efforts.



Asian Beetle Infestation (Risk Ranking #9)

Though the Asian Beetle infestation has relatively low impacts on the Town and Villages compared to the other hazards, mitigation strategies for any natural hazards involving wind, and hence tree, damage must be modified to account for the infestation. Pictured below is the border (purple) of the Asian Beetle Quarantine Area, with respect to the borders (black) of both Village of Amityville and Village of Babylon.





9.3.5 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Community classification
- National Flood Insurance Program
- Integration of Mitigation Planning into Existing and Future Planning Mechanisms

Planning and Regulatory Capability

The table below summarizes the regulatory tools that are available to the municipality.

Table 9.3-6. Planning and Regulatory Tools

Tool / Program (code, ordinance, plan)	Do you have this? (Y/N)	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, date of adoption, name of plan, explanation of authority, etc.)
Building Code	Y			Chapter 49, Village has adopted International Building Code
Zoning Ordinance	Y	Local and County (1)	Suffolk County Planning Commission; Village Zoning Board	Chapter 183 and 4, Suffolk County Planning Commission has review authority on certain actions. If they disapprove an action, Village Zoning Board must approve with a greater majority & present findings.
Subdivision Ordinance	Y	Local and County (1) (2)	Suffolk County Planning Commission; Village Board/ Village Zoning Board/ Village Planning Board	Chapter 4, Suffolk County Planning Commission has review authority on certain actions. If they disapprove an action, Village Board/ Village Zoning Board/ Village Planning Board must approve with a greater majority & present findings. NYS Subdivision laws provide a general framework, but allow room for local ordinances and interpretation.
Growth Management	N	Local		
Floodplain Management / Basin Plan		Y		
Stormwater Management Plan/Ordinance	Y			Chapter 150, adopted pursuant to NYS Phase II implementation of the Federal Clean Water Act
Comprehensive Plan / Master Plan	Y	County	Suffolk County Planning Commission	
Capital Improvements Plan	N			No formal long term capital improvement plans or budgets



Tool / Program (code, ordinance, plan)	Do you have this? (Y/N)	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, date of adoption, name of plan, explanation of authority, etc.)
Site Plan Review Requirements	Y		Suffolk County Planning Commission; Village Board of Adjustments and Building Department	Suffolk County Planning Commission has review authority on certain actions. If they disapprove an action, Village Boards must approve with a greater majority & present findings
Habitat Conservation Plan	N		Village	
Economic Development Plan	Y	Local		Economic development being considered within current and ongoing NYRCRP process
Emergency Response Plan	N	Local		Emergency response issues being considered within current and ongoing NYRCRP process
Shoreline Management Plan	N			
Post Disaster Recovery Plan	Y			Current and ongoing NYRCRP process
Post Disaster Recovery Ordinance	N			
Real Estate Disclosure req.	Y	State mandated		
Amityville Downtown Plan	Y	Local		
Long Island South Shore Estuary Reserve Comprehensive Management Plan	Y	Local	Long Island South Shore Estuary Reserve Council, NYS Department of State	
NFIP Flood Damage Protection Ordinance	Y		Code Enforcement Officer	Ch. 300-16, 9/09 Chapter 88, Updated 2010 based on new NFIP mapping
NFIP - Freeboard	Y		Code Enforcement Officer, Village Board of Adjustments/Zoning Board	Village allows up to 3' freeboard when elevating in the floodplain w/out zoning board approval Ch. 300-16 - State mandated BFE+2 for single and two-family residential construction, BFE+1 for all other
NFIP - Cumulative Substantial Damages	N			
Coastal Erosion Control Districts	N			

*Note: NYSDEC, NYSDOS, NYS DOT, SCDPW, SCDHS have permitting authority over some actions occurring as a result of local regulations.



Administrative and Technical Capability

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

Table 9.3-7. Administrative and Technical Capabilities

Staff/ Personnel Resources	Available (Y or N)	Department/ Agency/Position
Planner(s) or Engineer(s) with knowledge of land development and land management practices	Y	Contract Planners/Engineers
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Y	Contract Engineers. Village is applying for a CDBG grant to fund additional staffing for the building department.
Planners or engineers with an understanding of natural hazards	Y	Contract Planners/Engineers
NFIP Floodplain Administrator	Y	Code Enforcement Officer (currently Thomas Whalen)
Surveyor(s)	Y	Contract Surveyors
Personnel skilled or trained in "GIS" applications	Y	Town of Babylon supplies GIS Maps on an informal basis for emergency preparedness and fire protection needs; Contract GIS available
Scientist familiar with natural hazards in Suffolk County.	N	
Emergency Manager	Y	Volunteer reporting to Village Clerk
Grant Writer(s)	Y	Village Clerk & staff; Village Board is considering securing grant writing support (contracting)
Staff with expertise or training in benefit/cost analysis	Y	Village Clerk & staff

Fiscal Capability

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

Table 9.3-8. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No/Don't Know)
Community development Block Grants (CDBG)	Yes, have utilized in the past
Capital Improvements Project Funding	Yes, have utilized in the past. No formal capital budget.
Authority to Levy Taxes for specific purposes	Yes, have utilized in the past
User fees for water, sewer, gas or electric service	No
Impact Fees for homebuyers or developers of new development/homes	Yes, have utilized for traffic safety measures, optical pre-emption, and roadway improvements
Incur debt through general obligation bonds	Yes, have utilized in the past
Incur debt through special tax bonds	Yes, have utilized in the past
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Federal and State mitigation grant programs (e.g. FEMA, NYSOEM, NYSDEC, NYCDEP)	Yes, have utilized in the past
Other	FEMA sponsored grant funding; County sponsored grant funding for roadways improvements and stormwater remediation



Community Classifications

The table below summarizes classifications for community program available to the Village of Amityville.

Table 9.3-9. Community Classifications

Program	Classification	Date Classified
Community Rating System (CRS)	Not Participating	N/A
Building Code Effectiveness Grading Schedule (BCEGS)	4/4	2005
Public Protection	4*	-
Storm Ready	Not Participating	N/A
Firewise	Not Participating	N/A

N/A = Not applicable. NP = Not participating. - = Unavailable. TBD = To be determined.

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

Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual
- The Building Code Effectiveness Grading Schedule
- The ISO Mitigation online ISO’s Public Protection website at <http://www.isomitigation.com/ppc/0000/ppc0001.html>
- The National Weather Service Storm Ready website at <http://www.weather.gov/stormready/howto.htm>
- The National Firewise Communities website at <http://firewise.org/>

National Flood Insurance Program

The following section provides details on the National Flood Insurance Program (NFIP) as implemented within the municipality:

Program and Compliance History

Village of Amityville joined the NFIP on September 1, 1977, and is currently an active member of the NFIP. The current effective Flood Insurance Rate Maps are dated September 25, 2009. The community’s Flood Damage Prevention Ordinance (FDPO), found at Chapter 88 of the local code, was last updated in 2010 to reflect new FEMA mapping.

As of January 31, 2014 there are 1,241 policies in force, insuring \$305,816,000 of property with total annual insurance premiums of \$1,671,107. As of January 31, 2014, 1,532 claims have been paid totaling



\$83,461,980. As of January 31, 2014 there are 227 Repetitive Loss and 40 Severe Repetitive Loss properties in the community.

The community is currently in good standing in the NFIP and has no outstanding compliance issues. The current NFIP Floodplain Administrator has no knowledge of when the last CAV was performed. The municipality sees no specific need for a CAV at this time. In New York, a representative from New York State Department of Environmental Conservation visits coastal communities annually to review NFIP enforcement within the coastal zone.

Loss History and Mitigation

Since January 31, 2014, 1,532 claims have been paid totaling \$83,461,980. As of January 31, 2014, there are 227 Repetitive Loss and 40 Severe Repetitive Loss properties in the community.

At this time, no definitive numbers are known regarding how many structures were damaged during Hurricane Sandy or other events. It is speculated that at minimum, 350 structures were damaged during Hurricane Sandy. Letters stating properties were Substantially Damaged were sent to 33 property owners. New construction has begun at 15-16 of these properties.

Property owners have identified five sources of funding for mitigation. NFIP ICC, personal savings, SBA loans, New York Rising, and any other available grants are being used to pay for projects.

Planning and Regulatory Capabilities

The communities Flood Damage Prevention Ordinance (FDPO) was last updated in 2010, and is found at Chapter 88 of the local code.

The Village of Amityville increased its required Base Flood Elevation (BFE) to BFE + 3 feet following Hurricane Sandy. Though the FEMA and State mandated BFE + 2 feet performed well during the storm, increasing the BFE will help reduce future damages. Variances have been granted to allow construction to take place at both 4 feet and 5 feet above BFE.

Administrative and Technical Capabilities

The community FDPO identifies the Code Enforcement Officer as the local NFIP Floodplain Administrator, currently Thomas Whalen, for which floodplain administration is an auxiliary duty. Thomas works alongside other Village Departments to enforce the FDPO. Additional funding, staffing, and training would greatly enhance Amityville's utilization of this position.

Prior to Hurricane Sandy, Amityville did not maintain a list of property owners interested in mitigation. Those property owners who applied for permits regarding flood mitigation were documented, but nothing more was investigated with the list. Following Hurricane Sandy, Amityville saw an increase in the community's interest in flood risk. Amityville responded by creating a stronger response structure including maintaining lists of interested property owners, and updating the Village website to include flood insurance information.

Substantially Damage determinations are prepared using an engineering report stating it was Substantially Damaged. From there, letters are drafted and sent to effected property owners. Letters stating properties were Substantially Damaged were sent to 33 property owners. New construction has begun at 15-16 of these properties.



Public Education and Outreach

Information is posted for the community to see on the Village's website. Hurricane Sandy has increased the Village's awareness of its risk to flood damage. In response, more stringent documentation of damaged properties is now in place.

Actions to Strengthen the Program

To run a more efficient floodplain management program in Amityville, additional funding, staffing and training would help. Receiving further floodplain management training and information on the Community Rating System (CRS) would be greatly welcomed. The Mayor has begun looking into the requirements for joining CRS.

Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

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/ongoing programs and may be considered mitigation "capabilities":

Code Enforcement and Site Plan Review: The Village allows up to 3' freeboard for elevations in NFIP floodplains without zoning board approval. The Zoning Board considers the findings, vulnerabilities and recommendations within the HMP when conducting development and site plan reviews to assure appropriate land use.

New York Rising Community Redevelopment Program (NYRCRP): The findings and recommendations of the 2008 HMP are being considered and included in the current and ongoing NYRCRP process. Specific findings and recommendations, including projects, have been incorporated in this plan update.



9.3.6 Mitigation Strategy and Prioritization

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

Past Mitigation Initiative Status

The following table indicates progress on the Village’s mitigation strategy identified in the 2008 Plan. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under ‘Capability Assessment’ presented previously in this annex.

Table 9.3-1. Past Mitigation Initiative Status

Description	Status	Review Comments
VA-1: Increase structural stability and drainage capacity of culverts spanning tidal tributaries and supporting critical evacuation and response routes	Ongoing	An amended version of this initiative is being carried forward in the updated strategy.
VA-2: Re-design and re-enforce dams/spillways supporting man-made lakes out of freshwater streams and tidal tributaries to reduce risk of failure, increase stormwater retention, and reduce upstream flooding, and protect critical evacuation and response routes	Discontinued	There are no dams/spillways in the Village.
VA-3: Dredging of mouths of tidal tributaries	Discontinued	Dredging projects are not within Village capabilities; performed by Suffolk County and Army Corps
VA-4: Implement tree management programs and augment existing programs, including containment of Asian Beetle, and measures to improve post-disaster debris management	Continuous	An amended version of this initiative is being carried forward in the updated strategy.
VA-5: Support/enhance Building and/or Flood code enforcement programs at the local level [to include] public education and awareness of current codes	Continuous	This initiative is being removed from the updated mitigation strategy as it refers to activities that are an ongoing and normal part of Village operations.
VA-6: Institute a stream-clearing program to restore habitats of tidal tributaries and freshwater rivers by reducing invasive species, trash, excess sediment, etc. to increase natural and municipal drainage capabilities	Continuous	An amended version of this initiative is being carried forward in the updated strategy.
VA-7: Encourage staff and consultants to learn FEMA-sponsored cost-benefit analysis	In progress (25%)	Staff (treasurer) and building department has met with FEMA on this. An amended version of this initiative is being carried forward in the updated strategy.
VA-8: Design or enhance existing municipal drainage systems to provide increased capacity of the drainage system	Ongoing (25%)	An amended version of this initiative is being carried forward in the updated strategy. Village is monitoring a Town wide project where they are testing backflow prevention valves. Every finger street down to the water could apply, but backflow valves have often had long term maintenance and operation issues.
VA-9: Continue a program, in cooperation with existing US Ags/Markets programs, to	Ongoing	A modified version of this initiative is being carried forward, identifying local participation in



Description	Status	Review Comments
inform and certify contractors for debris removal operations in the quarantine area		the pending county-led debris management planning process.
VA-10: Elevate roads that are vital/critical to evacuation and local community operations	Ongoing (25%)	An amended version of this initiative is being carried forward in the updated strategy. Village has identified many road segments that need to be mitigated, but elevation can cause other drainage problems.
VA-11: Participate in homeowner partnership program to elevate vulnerable properties in high risk areas impacted by coastal storms, surface flooding, and/or shallow groundwater	Discontinued	This initiative is being removed from the mitigation strategy, as it is redundant with VA-18.
VA-12: Develop a post-disaster action plan for coastal storm events that will address the local government operations post disaster.	Ongoing	This initiative is being carried forward as an integration action, specifically identifying that the Village will incorporate the findings and recommendations of this HMP update into amendments/updates to their emergency plans.
VA-13: Consider low-density land use in high risk coastal, surface water and groundwater zones.	Discontinued	Originally put in in response to proposed or pending Federal and State programs which have not been implemented in this area to date.
VA-14: Continue to develop, enhance and implement existing emergency response plans to utilize new and developing technology/information as it becomes available.	In progress/ongoing (50%)	This initiative is being carried forward as an integration action, specifically identifying that the Village will incorporate the findings and recommendations of this HMP update into amendments/updates to their emergency plans.
VA-15: Promote the purchase of Flood Insurance	Discontinued	Redundant: Village provides information on the NFIP program to residents, as identified in the enhanced education and outreach initiative(s), but does not “promote purchase”.
VA-16: Educate the public on ways to protect their property before and during natural events, and what they can acquire to install appropriate property protection measures	Discontinued	Redundant: Captured in enhanced education and outreach initiative.
VA-17: Increase public education and notification concerning Asian Beetle Infestation, including production and distribution of maps of affected areas	Discontinued	Done by U.S. Dept. of Agriculture (local office at Merrick and Bayview).
VA-18: Consider non-structural flood hazard mitigation alternatives for at risk properties within the floodplain, including those that have been identified as repetitive loss, such as acquisition/relocation, or elevation depending on feasibility. The parameters for feasibility for this initiative would be: funding, benefits versus costs and willing participation of property owners.	In progress (cannot estimate percent complete)	An amended version of this initiative is being carried forward in the updated strategy.
VA-19: Consider participation in incentive-based programs such as CRS and “Storm Ready”	No progress.	An amended version of this initiative is being carried forward in the updated strategy.
VA-20: Develop a post-disaster action plan for coastal storm events that will address the continuity of local government operations, such as operations of the Village Clerk, post disaster	Discontinued.	This initiative is redundant with the updated wording of VA-12.
VA-21: Continue to support the implementation, monitoring, maintenance and updating of this Plan, as defined in Section 7.0	Ongoing	This initiative is being removed from the updated mitigation strategy as it refers to activities that are an ongoing and normal part of Village operations.



Description	Status	Review Comments
		The Village has fully participated in the 2014 update to this plan.
VA-22: Strive to maintain compliance with and good-standing in the National Flood Insurance program.	Ongoing	This initiative is being removed from the updated mitigation strategy, and identified as a mitigation capability as it refers to activities that are an ongoing and normal part of Village operations. Initiatives that enhance local floodplain management capabilities and participation in the NFIP have been identified in the Village's updated mitigation strategy.
VA-23: Encourage the International Bldg. Codes Council to investigate seismic design provisions for inclusion in the New York State Bldg. & Fire Prevention Codes	Discontinued	Seismic provisions already in State building code.

Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy

In addition to those identified in the above table, the municipality has implemented the following mitigation measures:

- Backup power at Village Hall

Proposed Hazard Mitigation Initiatives for the Plan Update

The Village of Amityville identified mitigation initiatives they would like to pursue in the future. 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. Table 9.3-11 identifies the municipality's updated local mitigation strategy.

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

Table 9.3-12 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.3-2. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category
VA-1 (former VA-1)	Assess and prioritize options to increase structural stability and drainage capacity of culverts spanning tidal tributaries, and implement as funding becomes available.	New and Existing	Nor' Easters; Coastal Erosion; Flooding; Shallow Groundwater	2, 5, 7, 12, 13, 14, 15, 16	NYS DOT, NYS Parks, SCDPW Highways, NYS DEC	High	High	Possible PDM application	Long Term	Low	SIP
VA-2 ² (former VA-8)	Assess and prioritize options to enhance capability of the municipal drainage system, and implement as funding becomes available.	New and Existing	Nor' Easters, Coastal Erosion, Hurricane, Flooding, Severe Storms, Shallow Groundwater	2, 5, 10, 11, 13, 15, 16	Village	High	Medium	Village; Possible PDM application	Long Term	Medium	SIP
VA-3 ² (former VA-10)	Assess and prioritize options to elevate roads that are vital/critical to evacuation and local community operations, and implement as funding becomes available.	Existing	Nor' Easters, Coastal Erosion, Hurricane, Flooding, Severe Storms, Shallow Groundwater	2, 13, 14, 15, 16	Village	High	High	Possible PDM application	Long Term	Low	SIP
VA-4 (former VA-18)	Assess and prioritize options to elevate, acquire, or relocate at-risk properties subject to flooding, and implement as funding becomes available. Specifically identified are properties in the following areas: <ul style="list-style-type: none"> • Shoreline • Great South Bay frontage • Jones Island 	Existing	Flood, Nor' Easter, Hurricane, Severe Weather	1, 2, 7, 9, 15	Village	High	High	General Fund, FEMA Hazard Mitigation Grant Funding	Long term, DOF	Medium	SIP
VA-5 ² (former VA-37)	Assess and prioritize options, such as elevation, to ensure access to primary roadways, and implement as funding becomes available.	Existing	Flood, Nor' Easter, Hurricane, Severe Storm	15, 16	Village	High	High	General Fund, FEMA Hazard Mitigation Grant Funding	DOF	Medium	SIP



Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category
VA-6 ² (former VA-42)	Assess and prioritize options to protect Montauk Highway at locations that flood frequently, and implement as funding becomes available.	Existing	Flood, Nor'Easter, Hurricane, Severe Storm	2, 15, 16	County/ Village	High	High	General Fund, FEMA Hazard Mitigation Grant Funding	Short, OG	Medium	SIP
VA-7 ² (former VA-46)	Assess and prioritize options to implement flood abatement and prevention, and implement as funding becomes available.	New & Existing	Flood, Nor'Easter, Hurricane, Severe Storm	15, 16	County/ Village	High	Medium	General Fund, FEMA Hazard Mitigation Grant Funding	DOF	High	SIP
VA-8 ² (former VA-48)	Assess and prioritize options to elevate Village/Hamlet beach facilities and buildings, and implement as funding becomes available.	Existing	Flood, Nor'Easter, Hurricane, Severe Storm	2, 5, 15	Village	High	Low	Village/Town	Short	High	SIP
VA-9 ² (former VA-49)	Assess and prioritize options to floodproof infrastructure at waterfront parks, and implement as funding becomes available.	Existing	Flood, Nor'Easter, Hurricane, Severe Storm	2, 15, 16	Village	High	High	General Fund, FEMA Hazard Mitigation Grant Funding	DOF	Low	SIP
VA-10 ² (former VA-39)	Assess and prioritize options to elevate the area and stabilize Amity Harbor at shoreline of Great South Bay between Ketchum's Creek at Tanner Park, and implement as funding becomes available.	NA	Flood, Nor'Easter, Hurricane, Severe Storm, Coastal Erosion	5, 15	Village/ NYSDEC	High	High	General Fund, FEMA Hazard Mitigation Grant Funding	Short	Medium	NRP
VA-11 (former VA-27)	Work with home and business owners to upgrade and secure their heating fuel oil tanks and secure hazardous materials in conformance with flood and SCDHS code requirements.	New & Existing	Flood, Nor'Easter, Hurricane, Severe Storm, Groundwater Contamination	1, 2, 3, 4, 15	County/ Village	Low	Low	General Fund	Short	Low	EAP



Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category
VA-12 ² (former VA-44)	Assess and prioritize options to reduce the likelihood of power outages, and implement as funding becomes available.	New & Existing	Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Wildfire, Winter Storm	3, 15, 16	County	High	High	General Fund	Long	Low	SIP
VA-13 ² (former VA-45)	Provide back-up power supply for gas stations and cell towers.	New & Existing	Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Wildfire, Winter Storm	7, 14, 15, 16	County	Medium	Medium	General Fund	Short, DOF	Medium	SIP
VA-14	Support and participate in county led initiatives (see Section 9.1) intended to build local and regional mitigation and risk-reduction capabilities (see Section 9.1), specifically: <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 private property owners) • 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). 										
	See above.	Both	All Hazards	All Objectives	Suffolk County, as supported by relevant local department leads,	High (comprehensive improvements in mitigation and risk-reduction capabilities)	Low-Medium (locally)	Local (staff resources)	Short	High	All types
VA-15 (former VA-30)	Assess and prioritize options to reduce runoff and provide natural recharge of precipitation consistent with NYSDEC Stormwater Design Manual in public ROWs, and implement as funding becomes available.	NA	Nor'Easters, Coastal Erosion, Hurricane, Flooding, Severe Storms, Shallow Groundwater	5, 15	Village/ NYSDC	High	Medium	General Fund	Short	High	NRP



Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category
VA-16 (former VA-6)	Assess and prioritize options to clear streams and restore habitats of tidal tributaries and freshwater rivers, to increase natural and municipal drainage capabilities, and implement as funding becomes available.	NA	Nor'Easters; Coastal Erosion; Hurricane; Flooding; Severe Storms; Shallow Groundwater	2, 5, 7, 8, 10, 11, 13, 15, 16	NYSDEC, SCDPW Vector Control	Medium	Low	Possible PDM application	Long Term	Medium	NRP
VA-17 (former VA-29)	Inspect shoreline conditions on a regular basis and enforce that regular maintenance is being conducted.	NA	Flood, Nor'Easter, Hurricane, Severe Storm, Coastal Erosion	5, 15	Village	Low	Low	General Fund	OG	Low	NRP
VA-18 ² (former VA-38)	Assess and prioritize options to create, repair, or replace appropriate built and natural shoreline treatments along shorelines and road termini at Great South Bay and watercourses, and implement as funding becomes available"	NA	Flood, Nor'Easter, Hurricane, Severe Storm, Coastal Erosion	2, 5, 15	Village/ NYSDEC	Medium	High	General Fund, FEMA Hazard Mitigation Grant Funding	DOF	Medium	NRP
VA-19 ² (former VA-47)	Nourish ocean beaches to protect barrier island.	NA	Flood, Nor'Easter, Hurricane, Severe Storm, Coastal Erosion	5, 15, 16	Village, NYS	Medium	High	General Fund	OG	Low	NRP
VA-20	Apply for CDBG funding to fund additional staffing for the building department. This staff augmentation will be available to support mitigation and redevelopment projects.	New and Existing	Nor'Easters, Coastal Erosion, Severe Storms, Hurricane, Flooding, Shallow Groundwater	3, 4, 7, 9, 10, 15, 16	Village Board	High	\$125,000	CDBG	2013/14	High	LPR
VA-21 (former VA-4)	Enhance and implement the tree management program.	NA	Nor'Easters, Severe Winter Storms, Hurricane, Flooding, Severe Storms	1, 7, 5, 10, 13, 15, 16	NYS Agriculture & Markets; USDA (APHIS)	Low	Low	Village; NYS Agriculture & Markets; USDA (APHIS)	Short Term	Medium	NRP



Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category
VA-22 ² (former VA-41)	Assess and prioritize options to improve emergency access and egress in residential neighborhoods south of Montauk Highway, and implement as funding becomes available.	NA	Flood, Nor' Easter, Hurricane, Severe Storm	14, 15, 16	Village	High	High	General Fund, FEMA Hazard Mitigation Grant Funding	DOF	High	SIP
VA-23 (former VA-19)	Work together with the County and others to bring CRS training/workshops into the community where appropriate community officials and staff will actively participate	New and Existing	Flood, Nor' Easter, Hurricane, Severe Weather	1, 3, 4, 9	Village	High	High	Village	Long Term	Low	LPR
VA-24 ² (former VA-34)	Provide a better and more accurate system of flood alerts and warnings.	NA	Flood, Nor' Easter, Hurricane, Severe Storm	1, 3, 7, 12, 14, 15	County/ Village	High	High	General Fund, FEMA Hazard Mitigation Grant Funding	Short	Medium	EAP
VA-25 (former VA-31)	Develop system of evacuation route markers.	NA	Earthquake, Flood, Hurricane, Nor' Easter, Severe Storm, Wildfire	1, 12, 14, 15	County/ Village	High	Medium	General Fund	Short	Medium	EAP
VA-26 ² (former VA-35)	Establish a dry ground designated parking area.	New	Flood, Nor' Easter, Hurricane, Severe Storm	7, 12, 15	County/ Village	Medium	Medium	General Fund	Short	Medium	EAP
VA-27 (former VA-7)	Encourage staff and consultants to learn FEMA-sponsored cost-benefit analysis methodology, including bringing the training into the community where appropriate community officials will actively participate.	NA	All Hazards	1, 3, 5, 7, 15, 16	Village	Low	Low	Village	Short Term	Medium	LPR
VA-28 ² (former VA-32)	Develop system of flood height markers.	NA	Flood	1, 3, 12, 14	County/ Village	Low	Medium	General Fund	Short	Low	EAP



Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category
VA-29	Work with County and PSEG (formerly LIPA) to identify roads within the municipality that are considered “critical”, and to be the first priority for clearing after an event involving downed power lines.	Existing	Severe Storm; Severe Winter Storm; Hurricane; Nor’Easter	3, 7, 13, 14, 15, 16	PSEG, County	High	Low-Medium	Local	Short	High	LRP
VA-30	Storm Sewer Improvements - Develop plans, design and implement improvements to the storm sewer system primarily south of Montauk Highway. (Amityville-Copiague New York Risking Community Redevelopment (NYRCR) project)	Existing	Flooding, Hurricane, Nor’Easter, Severe Storm	2, 7, 16, 17	Amityville DPW with NYRCR	High	High	NYRCR (CDBG-DR)	TBD	TBD	SIP

Notes:

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

Acronyms and Abbreviations:

- DPW Department of Public Works
- FEMA Federal Emergency Management Agency
- FMA Flood Mitigation Assistance grant program
- HMA Hazard Mitigation Assistance grant program (including FMA, HMGP, PDM)
- HMGP Hazard Mitigation Grant Program
- N/A Not applicable
- NFIP National Flood Insurance Program
- NYSOEM New York State Office of Emergency Management
- PDM Pre-Disaster Mitigation grant program
- PSEG Public Service Electric and Gas (formerly LIPA)

Costs:

Where actual project costs have been reasonably estimated:

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

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

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





Benefits:

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

Low = < \$10,000

Medium = \$10,000 to \$100,000

High = > \$100,000

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

Low = Long-term benefits of the project are difficult to quantify in the short term.

Medium = Project will have a long-term impact on the reduction of risk exposure to life and property, or project will provide an immediate reduction in the risk exposure to property.

High = Project will have an immediate impact on the reduction of risk exposure to life and property.

Timeline:

Short = 1 to 5 years

Long Term = 5 years or greater

OG = On-going program

DOF = Depending on funding

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 (NRP)* – 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.



Table 9.3-3. Summary of Prioritization of Actions

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
VA-1 (former VA-1)	Assess and prioritize options to increase structural stability and drainage capacity of culverts spanning tidal tributaries, and implement as funding becomes available.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Low
VA-2 ² (former VA-8)	Assess and prioritize options to enhance capability of the municipal drainage system, and implement as funding becomes available.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
VA-3 ² (former VA-10)	Assess and prioritize options to elevate roads that are vital/critical to evacuation and local community operations, and implement as funding becomes available.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Low



Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
VA-4 (former VA-18)	Assess and prioritize options to elevate, acquire, or relocate at-risk properties subject to flooding, and implement as funding becomes available. Specifically identified are properties in the following areas: <ul style="list-style-type: none"> • Shoreline • Great South Bay frontage • Jones Island 	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
VA-5 ² (former VA-37)	Assess and prioritize options, such as elevation, to ensure access to primary roadways, and implement as funding becomes available.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
VA-6 ² (former VA-42)	Assess and prioritize options to protect Montauk Highway at locations that flood frequently, and implement as funding becomes available.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
VA-7 ² (former VA-46)	Assess and prioritize options to implement flood abatement and prevention, and implement as funding becomes available.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	High



Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
VA-8 ² (former VA-48)	Assess and prioritize options to elevate Village/Hamlet beach facilities and buildings, and implement as funding becomes available.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	High
VA-9 ² (former VA-49)	Assess and prioritize options to floodproof infrastructure at waterfront parks, and implement as funding becomes available.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Low
VA-10 ² (former VA-39)	Assess and prioritize options to elevate the area and stabilize Amity Harbor at shoreline of Great South Bay between Ketchum's Creek at Tanner Park, and implement as funding becomes available.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
VA-11 (former VA-27)	Work with home and business owners to upgrade and secure their heating fuel oil tanks and secure hazardous materials in conformance with flood and SCDHS code requirements.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Low



Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
VA-12 ² (former VA-44)	Assess and prioritize options to reduce the likelihood of power outages, and implement as funding becomes available.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Low
VA-13 ² (former VA-45)	Provide back-up power supply for gas stations and cell towers.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
VA-14	Support and participate in county led initiatives...	1	1	1	1	1	1	1	0	1	1	1	1	0	1	12	High
VA-15 (former VA-30)	Assess and prioritize options to reduce runoff and provide natural recharge of precipitation consistent with NYSDEC Stormwater Design Manual in public ROWs, and implement as funding becomes available.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	High
VA-16 (former VA-6)	Assess and prioritize options to clear streams and restore habitats of tidal tributaries and freshwater rivers, to increase natural and municipal drainage capabilities, and implement as funding becomes available.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium



Section 9.3: Village of Amityville

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
VA-17 (former VA-29)	Inspect shoreline conditions on a regular basis and enforce that regular maintenance is being conducted.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Low
VA-18 ² (former VA-38)	Assess and prioritize options to create, repair, or replace appropriate built and natural shoreline treatments along shorelines and road termini at Great South Bay and watercourses, and implement as funding becomes available”	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
VA-19 ² (former VA-47)	Nourish ocean beaches to protect barrier island.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Low
VA-20	Apply for CDBG funding to fund additional staffing for the building department. This staff augmentation will be available to support mitigation and redevelopment projects.	1	1	0	1	0	1	1	0	0	1	1	1	1	1	10	High
VA-21 (former VA-4)	Enhance and implement the tree management program.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium





Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
VA-22 ² (former VA-41)	Assess and prioritize options to improve emergency access and egress in residential neighborhoods south of Montauk Highway, and implement as funding becomes available.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	High
VA-23 (former VA-19)	Work together with the County and others to bring CRS training/workshops into the community where appropriate community officials and staff will actively participate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Low
VA-24 ² (former VA-34)	Provide a better and more accurate system of flood alerts and warnings.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
VA-25 (former VA-31)	Develop system of evacuation route markers.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
VA-26 ² (former VA-35)	Establish a dry ground designated parking area.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium



Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
VA-27 (former VA-7)	Encourage staff and consultants to learn FEMA-sponsored cost-benefit analysis methodology, including bringing the training into the community where appropriate community officials will actively participate.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
VA-28 ² (former VA-32)	Develop system of flood height markers.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Low
VA-29	Work with County and PSEG (formerly LIPA) to identify roads within the municipality that are considered “critical”, and to be the first priority for clearing after an event involving downed power lines.	1	0	1	1	0	1	0	0	0	1	1	1	1	1	9	High
VA-30	Storm Sewer Improvements - Develop plans, design and implement improvements to the storm sewer system primarily south of Montauk Highway. (Amityville-Copiapue New York Risking Community Redevelopment (NYRCR) project)																To be performed by community NYRCR team

Note: Refer to Section 6 which contains the guidance on conducting the prioritization of mitigation actions.





9.3.7 Future Needs To Better Understand Risk/Vulnerability

- Mitigation Plan for man-made disasters
- Better building stock and cost-of-construction data to update risk assessment
- Become part of a Town of Babylon government recovery continuity plan, working with Town, fire districts, school districts, and other community organizations within the Village

9.3.8 Hazard Area Extent and Location

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

9.3.9 Additional Comments

None at this time.



Figure 9.3-1. Village of Amityville Hazard Area Extent and Location Map 1

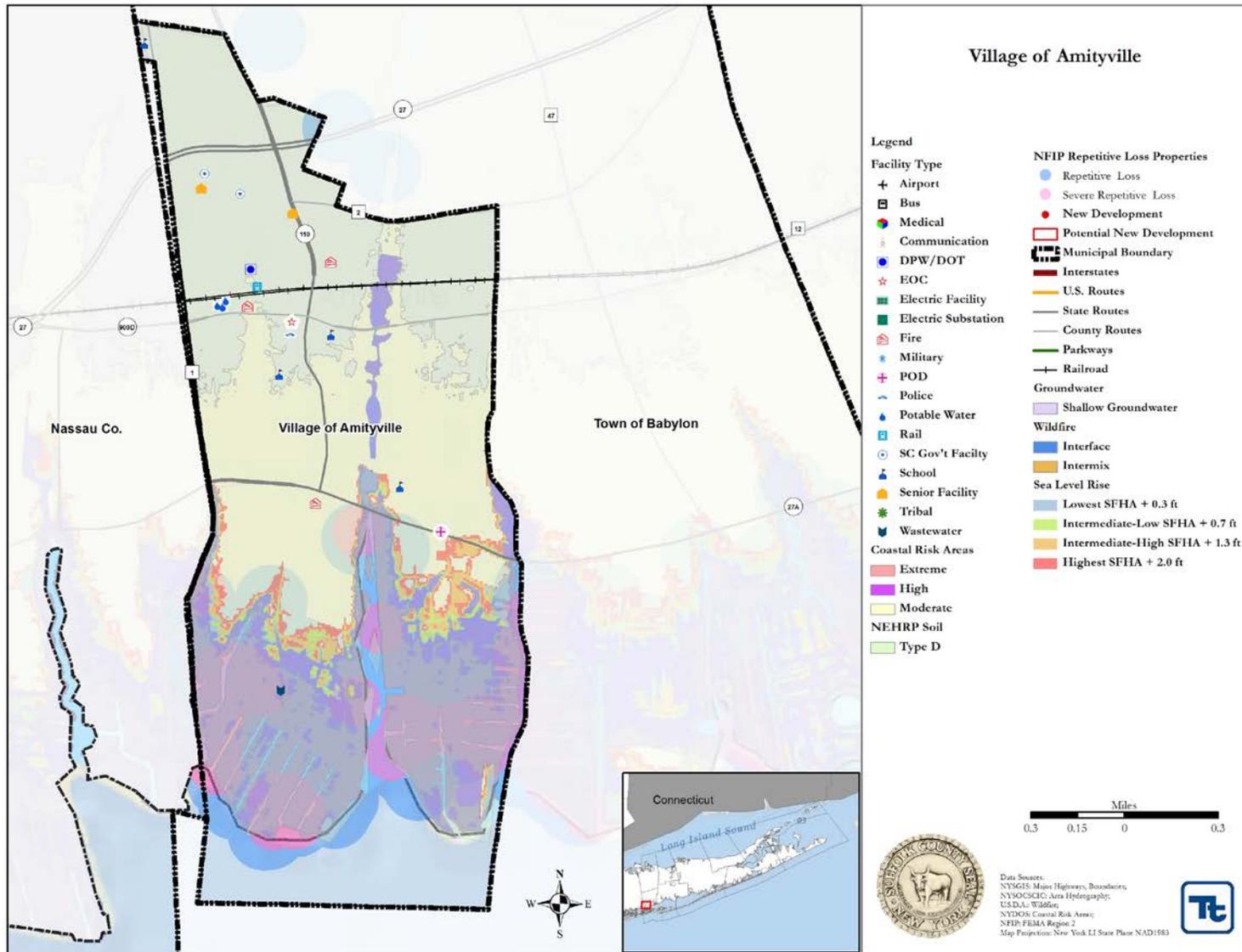




Figure 9.3-2. Village of Amityville Hazard Area Extent and Location Map 2

