



9.9 Village of Lake Grove

This section presents the jurisdictional annex for the Village of Lake Grove. 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 Lake Grove’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.

9.9.1 Hazard Mitigation Planning Team

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

Table 9.9-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Lynda Howell, Deputy Village Clerk Address: 980 Hawkins Avenue Lake Grove, NY 11755 Phone Number: 631-585-2000 Email: lyndah@lakegroveny.gov	Name/Title: Carmela Constant, Village Clerk/Village Assessor Address: 980 Hawkins Avenue Lake Grove, NY 11755 Phone Number: 631-585-2000 Email: carmelac@lakegroveny.gov
NFIP Floodplain Administrator	
Name/Title: John Bilello, Building Inspector Address: 980 Hawkins Avenue Lake Grove, NY 11755 Phone Number: 631-585-2000 Email: johnb@lakegroveny.gov	

9.9.2 Municipal Profile

The Village of Lake Grove was settled in the early 1700’s along Middle Country Road, also known as Old King’s Highway. It became a central crossroads for the transportation of goods thereafter and proceeded to grow. The Village was variously called Lakeland, Lakeville, New Village, Ronkonkoma or West Middle Island until it settled on the name Lake Grove in mid-1800s, after the groves of trees near Lake Ronkonkoma. The Village was officially incorporated into the Town of Brookhaven on September 9, 1968.

The Village of Lake Grove is located along the western border of the Town of Brookhaven. The Village’s western boarder is shared with the Town of Smithtown.

The elected mayor and the four trustees constitute the governing body of the Village of Lake Grove and are referred to as the Village Board.

According to the U.S. Census, the 2010 population for the Village of Lake Grove was 11,163. The estimated 2017 population was 11,130, a 0.3 percent decrease from the 2010 Census. Data from the 2017 U.S. Census American Community Survey indicate that 4.1 percent of the population is 5 years of age or younger and 16.5 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.

9.9.3 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 9.9-2 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 9.9-2. 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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Multi-Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other (commercial, mixed-use, etc.)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Permits Issued	164	0	179	0	171	0	159	0	157	0	144	0
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												
Windwood Oaks	Residential	74		Windwood Oaks	None	Residential Housing Development. Complete						
Bristol	Assisted Living Facility	136 beds		2995 Middle Country Road, Lake Grove, NY 11755	NEHRP Class D, Landslide high susceptibility	Assisted Living Facility						
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years												
None anticipated												

SFHA Special Flood Hazard Area (1% flood event)

* Only location-specific hazard zones or vulnerabilities identified.

9.9.4 Capability Assessment

The Village of Lake Grove 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 9.9.4). The Village of Lake Grove 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 Lake Grove and where hazard mitigation has been integrated.

Table 9.9-3. Planning, Legal, and Regulatory Capability

	Do you have this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible	State Mandated	Has this been integrated?	
						Yes	If no - can it be a mitigation action?
Codes, Ordinances, & Requirements							
Building Code	Yes	Code of the Village of Lake Grove, Chapter 65	Local	Building Department	Yes	Yes	-
Comment: This chapter is enacted in order to establish a code for the guidance of the Village of Lake Grove, the Building Inspector, the Village Engineer, the Planning Board and Board of Appeals, its departments, employees, agencies and for the general public, contractors, owners and builders engaged in the construction and development of the Incorporated Village of Lake Grove.							
Zoning Code	Yes	Code of the Village of Lake Grove, Chapter 175	Local	Planning Board	No	Yes	-
Comment: The Zoning Code regulates development in the village.							
Subdivisions	Yes	Code of the Village of Lake Grove, Chapter 159	Local	Planning Board	No	Yes	-
Comment: The Incorporated Village of Lake Grove does hereby promulgate these subdivision regulations to ensure the orderly, efficient and economical development of the village. 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 conformity with the provisions in Chapter 175, Zoning; that the proposed streets shall compose an efficient and convenient system for both vehicular and pedestrian traffic and be of such width, grade and location as to accommodate prospective traffic and afford adequate facilities for fire protection and be coordinated so as to compose a convenient system conforming to the Official Village Map and the Village Master Plan; that proper provisions be made for open recreational areas, including parks and playgrounds, of suitable size and location.							
Stormwater Management	No	-	-	-	Yes	-	-
Comment:							
Post-Disaster Recovery	No	-	-	-	No	-	-
Comment:							
Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code - Article 14	State	NYS Department of State, Real Estate Agent	Yes	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?
Comment:							
Growth Management	No	-	-	-	No	-	-
Comment:							
Site Plan Review	Yes	Code of the Village of Lake Grove, Chapter 175, Article X, Section 67	Local	Planning Board	No	Yes	-
<p>Comment: In each case where a building, structure, use or alteration thereof is proposed in use districts PRC Residence District (Planned Retirement Community), Article IV; J Business 2 (General Business), Article V; J Business 3 (Commercial Centers), Article VI; and J Business 4 (Professional and Business Offices), Article VII of this chapter, the Building Inspector shall refer the site plan of the proposed building, structure or use or alteration thereof to the Village Planning Board for its review. There shall be submitted with the application for site plan approval a copy of any restrictive covenant running in favor of the village, or if there is no such restrictive covenant, the applicant shall furnish an affidavit to that effect. Such Board shall determine that all of the requirements of this chapter and all other applicable municipal ordinances, rules, regulations and laws have been complied with after holding a public hearing in each case.</p>							
Environmental Protection	No	-	-	-	Yes	-	-
Comment:							
Flood Damage Prevention	Yes	Code of the Village of Lake Grove, Chapter 92	Local	Building Inspector	Yes - BFE+2 feet for all construction in the SFHA (residential and non-residential)	Yes	-
<p>Comment: The Flood Damage Prevention Ordinance was adopted in order to:</p> <ul style="list-style-type: none"> To protect human life and health; To minimize expenditure of public money for costly flood control projects; To minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public; To minimize prolonged business interruptions; To minimize damage to public facilities and utilities such as water and gas mains, electric, telephone, sewer lines, streets and bridges located in areas of special flood hazard; To 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; To provide that developers are notified that property is in an area of special flood hazard; and To ensure that those who occupy the areas of special flood hazard assume responsibility for their actions. 							
Municipal Separate Storm Sewer System (MS4)	No	EPA Phase II Stormwater Rule	-	-	Yes	-	-
Comment:							
Emergency Management	No	NYS Executive Law, Article 2B	-	-	Yes	-	-
Comment:							
Climate Change	No	NYS Executive Law, Article 75	-	-	Yes	-	-
Comment:							
Disaster Recovery Ordinance	No	-	-	-	No	-	-
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?	
Disaster Reconstruction Ordinance	No	-	-	-	No	-	-
Comment:							
Other	No	-	-	-	No	-	-
Comment:							
Planning Documents							
Comprehensive Plan	No	-	-	-	No	-	-
Comment:							
Capital Improvement Plan	No	-	-	-	No	-	-
Comment:							
Disaster Debris Management Plan	Yes	Suffolk County Multi-Jurisdictional Debris Management Plan	County, Local	Suffolk County FRES	No	Yes	-
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	No	-	-	-	No	-	-
Comment:							
Open Space Plan	No	NYS Constitution - Article 9; Statute of Local Governments. Section 10 (7)	-	-	Yes	-	-
Comment:							
Urban Water Management Plan	No	-	-	-	No	-	-
Comment:							
Habitat Conservation Plan	No	-	-	-	No	-	-
Comment:							
Economic Development Plan	No	-	-	-	No	-	-
Comment:							
Shoreline Management Plan	No	Article 34, Environmental Conservation Law, Coastal Erosion Hazard	-	-	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?	
		Areas 6 NYCRR Part 505, Coastal Erosion Management Regulations					
Comment:							
Community Wildfire Protection Plan	No	-	-	-	No	-	-
Comment:							
Forest Management Plan	No	-	-	-	No	-	-
Comment:							
Transportation Plan	No	-	-	-	No	-	-
Comment:							
Agriculture Plan	No	NYCRR Part 390 Agricultural and Farmland Protection	-	-	Yes	-	-
Comment:							
Other (this could include a climate action plan, tourism plan, business development plan, etc.)	No	-	-	-	No	-	-
Comment:							
Response/Recovery Planning							
Comprehensive Emergency Management Plan	Yes	Suffolk County Comprehensive Emergency Management Plan (2018)	Suffolk County and Associated Jurisdictions	Suffolk FRES	Yes	Yes	-
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	-	-	-	-	-	-
Comment:							
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-	Yes	-	-
Comment:							
Post-Disaster Recovery Plan	No	-	-	-	No	-	-
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?	
Continuity of Operations Plan	No	-	-	-	No	-	-
Comment:							
Public Health Plan	No	-	-	-	No	-	-
Comment:							
Other	No	-	-	-	No	-	-
Comment:							

Table 9.9-4. 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 and Planning Board
Permits are tracked by hazard area. For example, floodplain development permits.	Yes
Buildable land inventory If yes, please describe If no, please quantitatively describe the level of buildout in the jurisdiction.	Yes, nearly built out

Administrative and Technical Capability

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

Table 9.9-5. Administrative and Technical Capabilities

Resources	Available? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	Yes	Planning Board
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	Village Board
Warning Systems / Services (reverse 911, outdoor warning signals)	Yes	Robocalls, website, social media
Maintenance programs to reduce risk	Yes	Tree trimming by PSEG; road maintenance, street sweeping, potholes, drains are cleaned and maintained by Highway Department
Mutual aid agreements	Yes	Agreements with the Town of Brookhaven and Suffolk County for shared services
Technical/Staffing Capability		
Planners or engineers with knowledge of land development and land management practices	Yes	Board Chairman
Engineers or professionals trained in building or infrastructure	Yes	Village Engineer



Resources	Available? (Yes or No)	Department/ Agency/Position
construction practices		
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Scientist familiar with natural hazards	No	-
NFIP Floodplain Administrator (FPA)	Yes	Building Inspector, John Bilello
Surveyor(s)	No	-
Emergency Manager	No	-
Grant writer(s)	No	-
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-

Fiscal Capability

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

Table 9.9-6. Fiscal Capabilities

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

Table 9.9-7. Education and Outreach Capabilities

Indicate if your jurisdiction has the following resources	Yes/No; Please describe
Public information officer or communications office?	Mayor
Personnel skilled or trained in website development?	Yes, contracted



Indicate if your jurisdiction has the following resources	Yes/No; Please describe
Hazard mitigation information available on your website; if yes, describe	No, but website being updated.
Social media for hazard mitigation education and outreach; if yes, briefly describe.	Yes, Facebook and Twitter
Citizen boards or commissions that address issues related to hazard mitigation; if yes, briefly describe.	Beautification committee
Other programs already in place that could be used to communicate hazard-related information; if yes, briefly describe.	Lions Club social club, LG Cares non-profit
Warning systems for hazard events; if yes, briefly describe.	Robocalls, website, social media
Natural disaster/safety programs in place for schools; if yes, briefly describe.	Suffolk County school education program
Other	No

Community Classifications

The table below summarizes classifications for community programs available to the Village of Lake Grove.

Table 9.9-8. 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)	Yes	4	Unknown
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 9.9-9. Adaptive Capacity

Hazard	Adaptive Capacity (Capabilities) - High/Medium/Low*
Coastal Erosion	Medium
Cyber Security	Medium
Disease Outbreak	Medium
Drought	Medium
Earthquake	Medium
Expansive Soils	Medium





Hazard	Adaptive Capacity (Capabilities) - High/Medium/Low*
Extreme Temperature	Medium
Flood	Medium
Groundwater Contamination	Medium
Hurricane	Medium
Infestation and Invasive Species	Medium
Nor'Easter	Medium
Severe Storm	Medium
Severe Winter Storm	High
Shallow Groundwater	Medium
Wildfire	Medium

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

The Village is able to access information via Suffolk County and the Town of Brookhaven to determine the possible impacts of climate change upon the municipality? The Village addresses policies and actions related to climate change on a case by case basis. Climate change is not current being integrated into current policies/plans or actions (projects/monitoring) within the municipality.

9.9.5 National Flood Insurance Program

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

NFIP Floodplain Administrator (FPA)

John Bilello, Building Inspector

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Village of Lake Grove.

Table 9.9-10. NFIP Summary

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties
Village of Lake Grove	10	1	\$2,299	2

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

Flood Vulnerability Summary

The Village of Lake Grove has very low flood exposure and vulnerability, being located away from the coast and sources of flooding.

Resources

The Building Department is responsible for NFIP administration services including building permit reviews.



Compliance History

The Village of Lake Grove joined the NFIP on May 12, 2008, and is currently an active member of the NFIP. The current effective Flood Insurance Rate Maps are dated September 25, 2009. The Village of Lake Grove has not had a Community Assistance Visit (CAV).

Regulatory

The communities Flood Damage Prevention Ordinance (FDPO) was last updated on February 21, 2008 and is found at Chapter 92 of the local code.

Community Rating System

The Village of Lake Grove does not participate in the Community Rating System.

9.9.6 Integration with Other Planning Initiatives

As this HMP update is implemented, the Village of Lake Grove 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”:

- **Fire Marshal’s Office:** The Fire Marshal’s Office works to save lives through inspections, investigation and education. Gaining compliance through cooperation provides a fire safe environment for the residents, businesses and visitors of Lake Grove. Duties of the Office include:
 - *Record keeping/Fire Reporting:* The Office maintains public records regarding all fires and hazardous materials incidents within the jurisdiction and files required reports with New York State and other agencies.
 - *Plans Review:* The Office performs plan reviews for code compliance relating to fire protection and suppression systems on all permitted building construction and renovation projects. The Fire Marshal’s office reviews and approves plans for all construction, fire alarm, fire sprinkler, fixed suppression, propane/natural gas installations, carnivals, large public events and fireworks displays in the Village. The office performs numerous site inspections during construction to ensure continued compliance and conducts a final inspection on completion of the project for the issuance of a Certificate of Occupancy.
 - *Fire Inspections:* Fire code compliance inspections are performed on all non-residential occupancies (commercial and public buildings). Inspections are typically done annually. If the Fire Marshal finds any fire hazards or violations, the owner/ tenant is given a notice to correct the violations and adequate time is given for corrections to be made. The Marshal then returns to Re-Inspect to verify compliance.



- *Hazardous Materials Incidents:* The Office assists the fire departments in identification and isolation of any suspected hazardous materials. The Office will request and work with Hazardous Materials response Teams in the mitigation of the incident then follow up-taking appropriate action against the responsible individuals in attempt to prevent future incidents and assure that all necessary cleanup measures have been followed.
- *Public Safety Education:* The Fire Marshal’s office regularly conducts life safety classes in private and public schools as well as to a number of the local businesses. These classes cover everything from notifying the correct agency in an emergency, evacuation planning, fire extinguisher usage and self inspection techniques.

Opportunities for Future Integration

None identified.

9.9.7 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

In the event that evacuation of the Village is required, the Village of Lake Grove follows the guidance of Suffolk County and would work to coordinate with the Town of Brookhaven. Hawkins Avenue is not an official evacuation route, but is the main roadway to access the Long Island Expressway.

Sheltering

The Village of Lake Grove relies on the American Red Cross for sheltering during disaster events. The Village Recreation Center, located at 980 Hawkins Avenue, could be utilized as a staging area for sheltering. The Recreation Center and the Village Offices have a backup generator but the generator is out of date and needs replacement in order to maintain backup power.

Temporary Housing

The Village of Lake Grove does not have any locations identified for the placement of temporary housing.

Permanent Housing

The Village of Lake Grove does not have homes located in the Special Flood Hazard Area and is built out.

9.9.8 Hazard Event History Specific to the Village of Lake Grove

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 Lake Grove’s history of federally-declared (as presented by FEMA) and significant hazard events (as presented in NOAA-NCEI) is consistent with that of Suffolk County. Table 9.9-11 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 9.9-11. 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 Lake Grove did not report any damages.
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.	Costs incurred for the Village included \$3,000 for overtime of employees, \$13,385 for necessary equipment usage, and \$3,968 for 82 tons of salt and sand.

Notes:

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

9.9.9 Hazard Ranking and Jurisdiction-Specific Vulnerabilities

The hazard profiles in Section 5 (Risk Assessment) of this plan have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes critical facility and community lifeline flood exposure, and the hazards of greatest concern and risk to the Village of Lake Grove. 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 9.9-12. 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			
None Identified	-	-	-	-		

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 Lake Grove. The Village of Lake Grove 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 Lake Grove indicated the following:

- The Village agreed with the calculated hazard rankings.

Table 9.9-13. Hazard Ranking

Coastal Erosion	Cyber Security	Disease Outbreak	Drought	Earthquake	Expansive Soils
Low	Medium	Medium	Low	Medium	Low





Extreme Temperature	Flood	Groundwater Contamination	Hurricane	Infestation and Invasive Species	Nor'Easter
Medium	Medium	Medium	High	Medium	High

Severe Storm	Severe Winter Storm	Shallow Groundwater	Wildfire
Medium	Medium	Low	Low

Identified Issues

The municipality has identified the following vulnerabilities within their community:

- The Village salt and sand barn is degraded and needs replacement/upgrade. Future storm damage could result in the Village being unable to properly keep streets clear in winter storm events.

9.9.10 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 9.9-15). 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

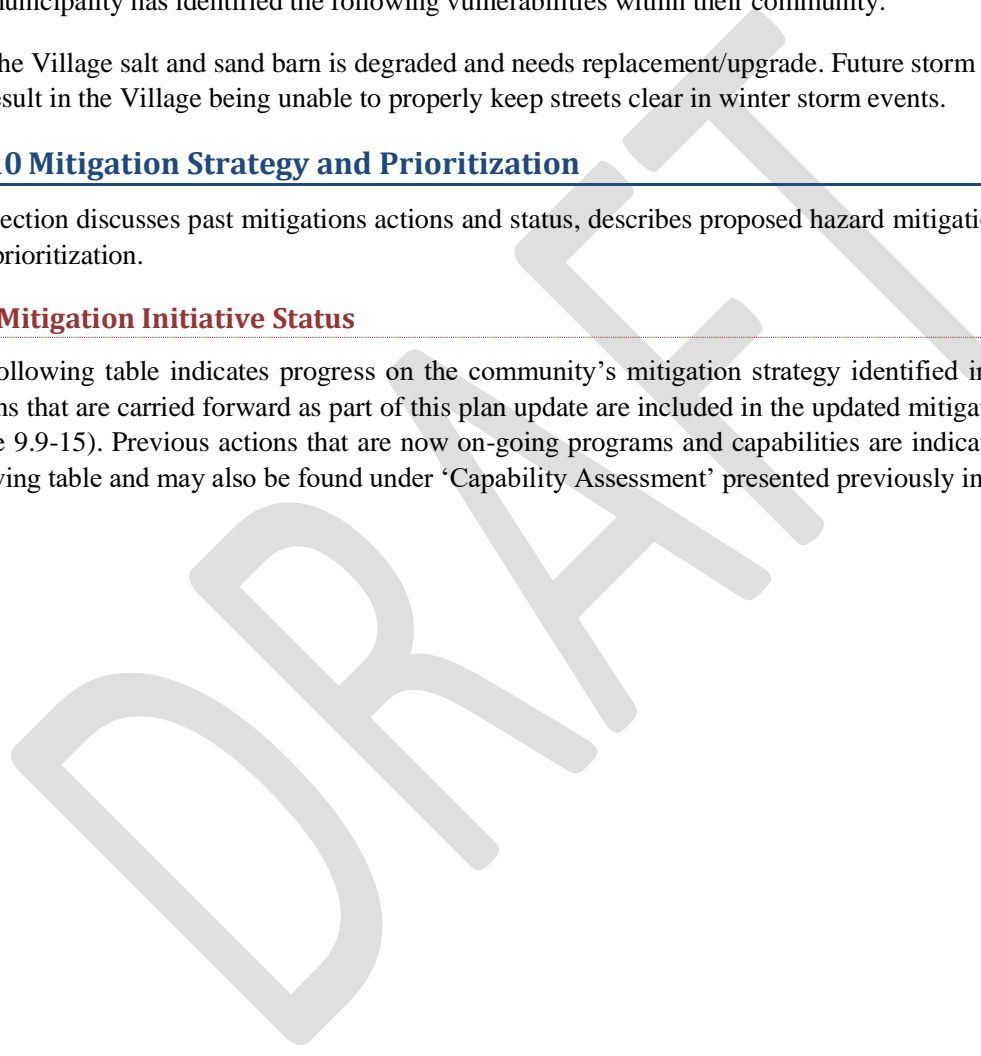




Table 9.9-14. Status of Previous Mitigation Actions

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	
VLG-1 (previously VLG-7, VLG-8)	<p>Support and participate in county led initiatives intended to build local and regional mitigation and risk-reduction capabilities (see Section 9.1), specifically:</p> <ul style="list-style-type: none"> Mitigation Education for Natural Disasters (natural hazard awareness and personal scale risk reduction/mitigation on public education and outreach program) Build Local Floodplain Management and Disaster Recovery Capabilities (enhanced floodplain management, and post-disaster assessment and recovery capabilities) County-Wide Debris Management Plan Jurisdictional 	All Hazards	Suffolk County, as supported by relevant local department leads		Ongoing Capability			<ol style="list-style-type: none"> Discontinue Ongoing Capability



	<p>Knowledge of Mitigation Needs of Property Owners (improved understanding of damages and mitigation interest/activity of private property owners)</p> <ul style="list-style-type: none"> • 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). 												
VLG-2 (previously VLG-1)	Assess and prioritize options to retrofit, acquire, or relocate structures located in hazard-prone areas to protect structures from future damage.	Flood, Nor'Easter, Hurricane, Severe Storm	Village		In Progress	<table border="1"> <tr> <td>Cost</td> <td></td> </tr> <tr> <td>Level of Protection</td> <td></td> </tr> <tr> <td>Damages Avoided; Evidence of Success</td> <td></td> </tr> </table>	Cost		Level of Protection		Damages Avoided; Evidence of Success		<ol style="list-style-type: none"> 1. Include in 2020 HMP 2. Action for Salt Barn and Village Offices backup generator 3.
Cost													
Level of Protection													
Damages Avoided; Evidence of Success													
VLG-3	Work together with the	Flood,	NFIP		Ongoing	Cost	<ol style="list-style-type: none"> 1. Discontinue 						



(previously VLG-2)	County and others to bring CRS training/workshops into the community where appropriate community officials and staff will actively participate	Nor'Easter, Hurricane, Severe Storm	Floodplain Administrator		capability	Level of Protection Damages Avoided; Evidence of Success		2. 3. Ongoing capability
VLG-4 (new)	Work with County and PSEG (formerly LIPA) to identify roads within the municipality that are considered "critical", and to be the first priority for clearing after an event involving downed power lines.	Severe Storm; Severe Winter Storm; Hurricane; Nor'Easter	PSEG, County		Ongoing capability	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3. Ongoing capability

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Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy

The Village of Lake Grove 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 Lake Grove 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 9.9-15 summarizes the comprehensive-range of specific mitigation initiatives the Village of Lake Grove 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 9.9-16 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 9.9-15. 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-Lake Grove-001	Salt and Sand Barn	1, 2, 3, 7	Severe Storm, Winter Storm, Nor'Easter, Groundwater Contamination	<p>Problem: The Village salt and sand barn is degraded and needs replacement/upgrade. Future storm damage could result in the Village being unable to properly keep streets clear in winter storm events. Runoff from salt due to rainfall can lead to groundwater contamination issues.</p> <p>Solution: The Village will replace the salt and sand barn with a structurally sound and weather-proof structure to protect the Village salt and sand supply for winter storm response.</p>	Yes	No	Within 1 year	Building Department, Highway Department	\$200,000	Continuity of road clearing services in winter, reduction in runoff	FEMA HMGP and PDM, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Municipal Budget	High	SIP	PP
2020-Lake Grove-002	Village Offices Generator	1, 2, 7	All hazards	<p>Problem: The Village Offices (980 Hawkins Avenue) are serviced by an outdated backup generator. The generator also services the Recreation Building which is located adjacent to the Village Offices. The Recreation Building could serve as a backup sheltering location and has the space to host medical related events such as blood drives.</p> <p>Solution: The Village will then purchase and install a liquid propane/natural gas automatic standby generator (120VAC/240VAC) at the Village Offices, including a 200 amp panel transfer switch.</p>	Yes	No	1 year	Village Engineer, Building Department	\$7,000	Ensures continuity of operations; provides a shelter for residents	FEMA HMGP and PDM, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Municipal Budget	High	SIP	PP
2020-Lake Grove-003	Temporary Housing Identification	7, 8	All hazards	<p>Problem: The Village lacks the space to host temporary housing in the event of a disaster.</p> <p>Solution: The Village will work with Suffolk County and neighboring municipalities to identify appropriate temporary housing locations outside of the Village boundaries and establish</p>	No	No	Within 1 year	Suffolk County, Village Administration	Staff time	Temporary housing locations identified	Municipal budget	High	LPR	ES



Table 9.9-15. 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
				any necessary memorandums of agreement.										

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
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

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

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.

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*

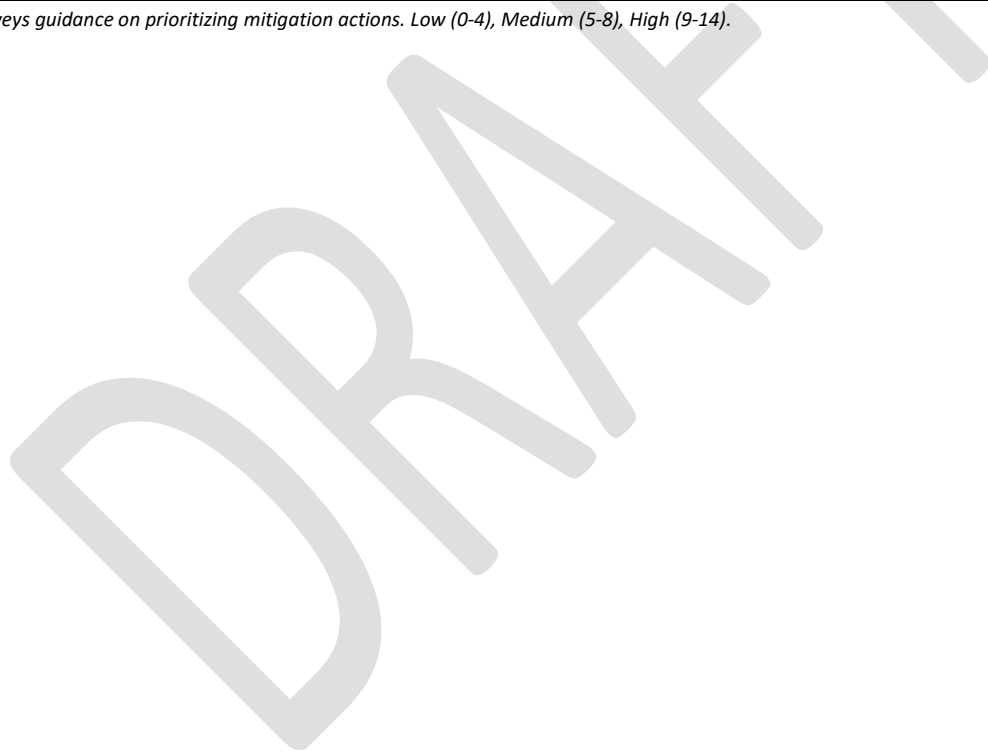
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Table 9.9-16. Summary of Prioritization of Actions

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2020-Lake Grove-001	Salt and Sand Barn	1	0	1	1	1	1	0	1	1	1	1	1	1	1	12	High
2020-Lake Grove-002	Village Offices Generator	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	High
2020-Lake Grove-003	Temporary Housing Identification	1	0	1	1	1	1	1	1	1	1	1	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).





9.9.11 Proposed Mitigation Action Types

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

Table 9.9-17. Analysis of Mitigation Actions by Hazard and Category

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Coastal Erosion	2020-Lake Grove-003	2020-Lake Grove-002				2020-Lake Grove-002				2020-Lake Grove-003
Cyber Security	2020-Lake Grove-003	2020-Lake Grove-002				2020-Lake Grove-002				2020-Lake Grove-003
Disease Outbreak	2020-Lake Grove-003	2020-Lake Grove-002				2020-Lake Grove-002				2020-Lake Grove-003
Drought	2020-Lake Grove-003	2020-Lake Grove-002				2020-Lake Grove-002				2020-Lake Grove-003
Earthquake	2020-Lake Grove-003	2020-Lake Grove-002				2020-Lake Grove-002				2020-Lake Grove-003
Expansive Soils	2020-Lake Grove-003	2020-Lake Grove-002				2020-Lake Grove-002				2020-Lake Grove-003
Extreme Temperature	2020-Lake Grove-003	2020-Lake Grove-002				2020-Lake Grove-002				2020-Lake Grove-003
Flood	2020-Lake Grove-003	2020-Lake Grove-002				2020-Lake Grove-002				2020-Lake Grove-003
Groundwater Contamination	2020-Lake Grove-003	2020-Lake Grove-001, 2020-Lake Grove-002				2020-Lake Grove-001, 2020-Lake Grove-002				2020-Lake Grove-003
Hurricane	2020-Lake Grove-003	2020-Lake Grove-002				2020-Lake Grove-002				2020-Lake Grove-003
Infestation and Invasive Species	2020-Lake Grove-003	2020-Lake Grove-002				2020-Lake Grove-002				2020-Lake Grove-003
Nor'Easter	2020-Lake Grove-003	2020-Lake Grove-001, 2020-				2020-Lake Grove-001, 2020-				2020-Lake Grove-003



Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
		Lake Grove-002				Lake Grove-002				
Severe Storm	2020-Lake Grove-003	2020-Lake Grove-001, 2020-Lake Grove-002				2020-Lake Grove-001, 2020-Lake Grove-002				2020-Lake Grove-003
Severe Winter Storm	2020-Lake Grove-003	2020-Lake Grove-001, 2020-Lake Grove-002				2020-Lake Grove-001, 2020-Lake Grove-002				2020-Lake Grove-003
Shallow Groundwater	2020-Lake Grove-003	2020-Lake Grove-002				, 2020-Lake Grove-002				2020-Lake Grove-003
Wildfire	2020-Lake Grove-003	2020-Lake Grove-002				2020-Lake Grove-002				2020-Lake Grove-003

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

9.9.12 Staff and Local Stakeholder Involvement in Annex Development

The Village of Lake Grove 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: Village Clerk/Assessor, Deputy Village Clerk, Highway Department. The Village Deputy Clerk 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 9.9-18. Contributors to the Annex

Name	Title/Entity	Method of Participation
Lynda Howell	Deputy Village Clerk	Primary point of contact, attended plan participant meetings, provided impact information, contributed to the mitigation strategy
Carmella Constant	Village Clerk/Village Assessor	Attended plan participant meetings, provided impact information, contributed to the mitigation strategy
Anthony Mancuso	Highway Foreman/Building Inspector	Attended plan participant meetings, provided impact information, contributed to the mitigation strategy



9.9.13 Hazard Area Extent and Location

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

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Figure 9.9-1. Village of Lake Grove Hazard Area Extent and Location Map 1

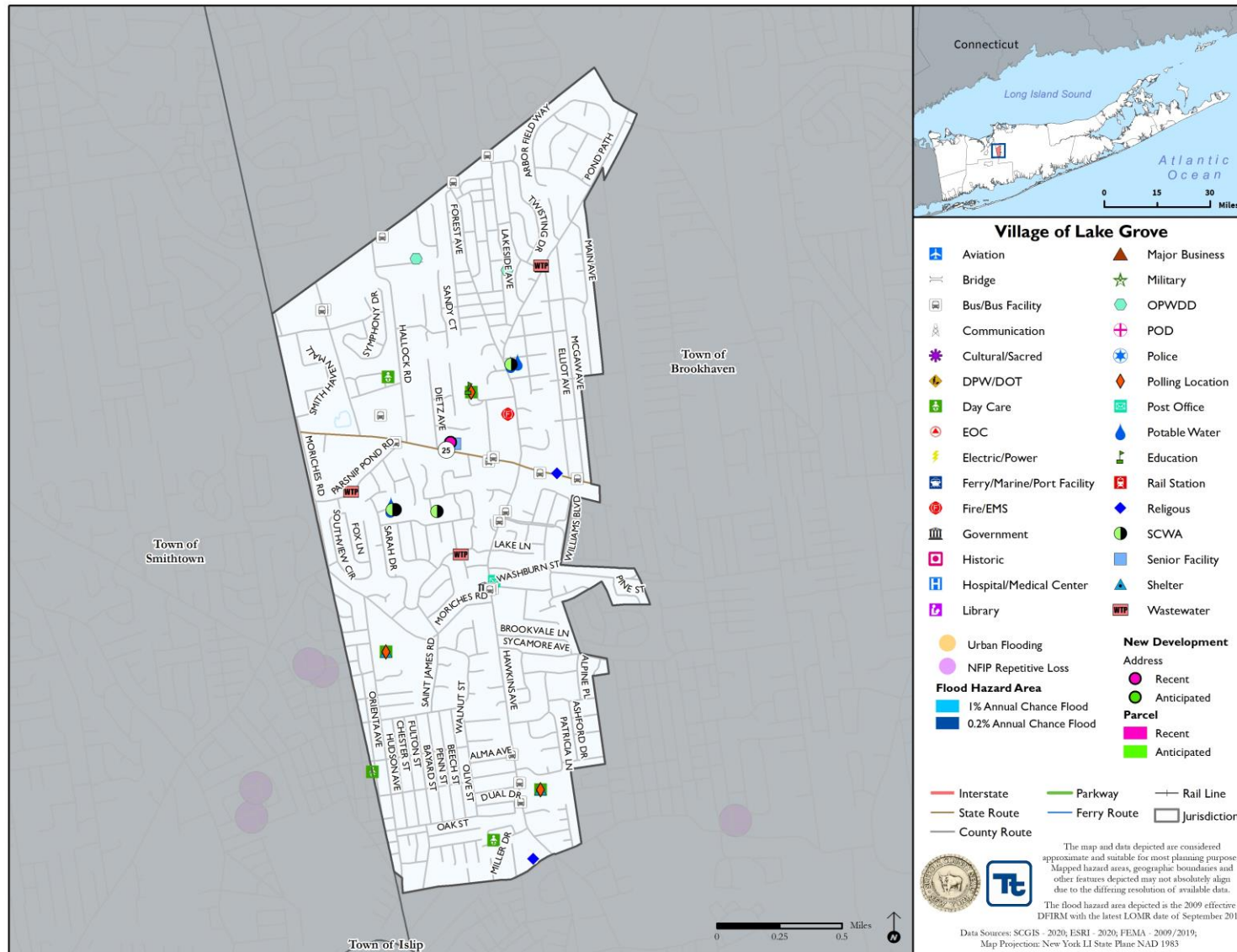




Figure 9.9-2. Village of Lake Grove Hazard Area Extent and Location Map 2

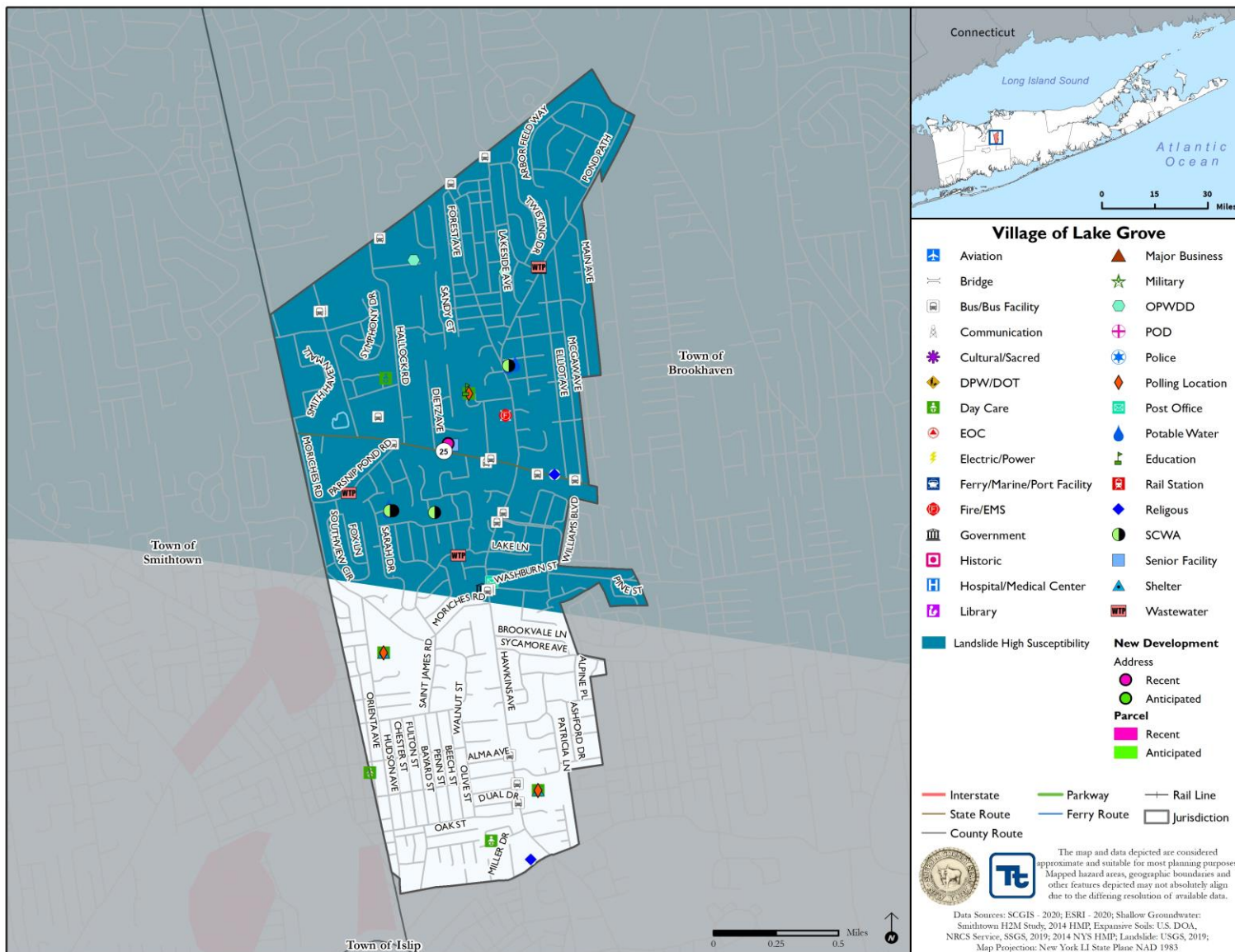




Figure 9.9-3. Village of Lake Grove Hazard Area Extent and Location Map 3

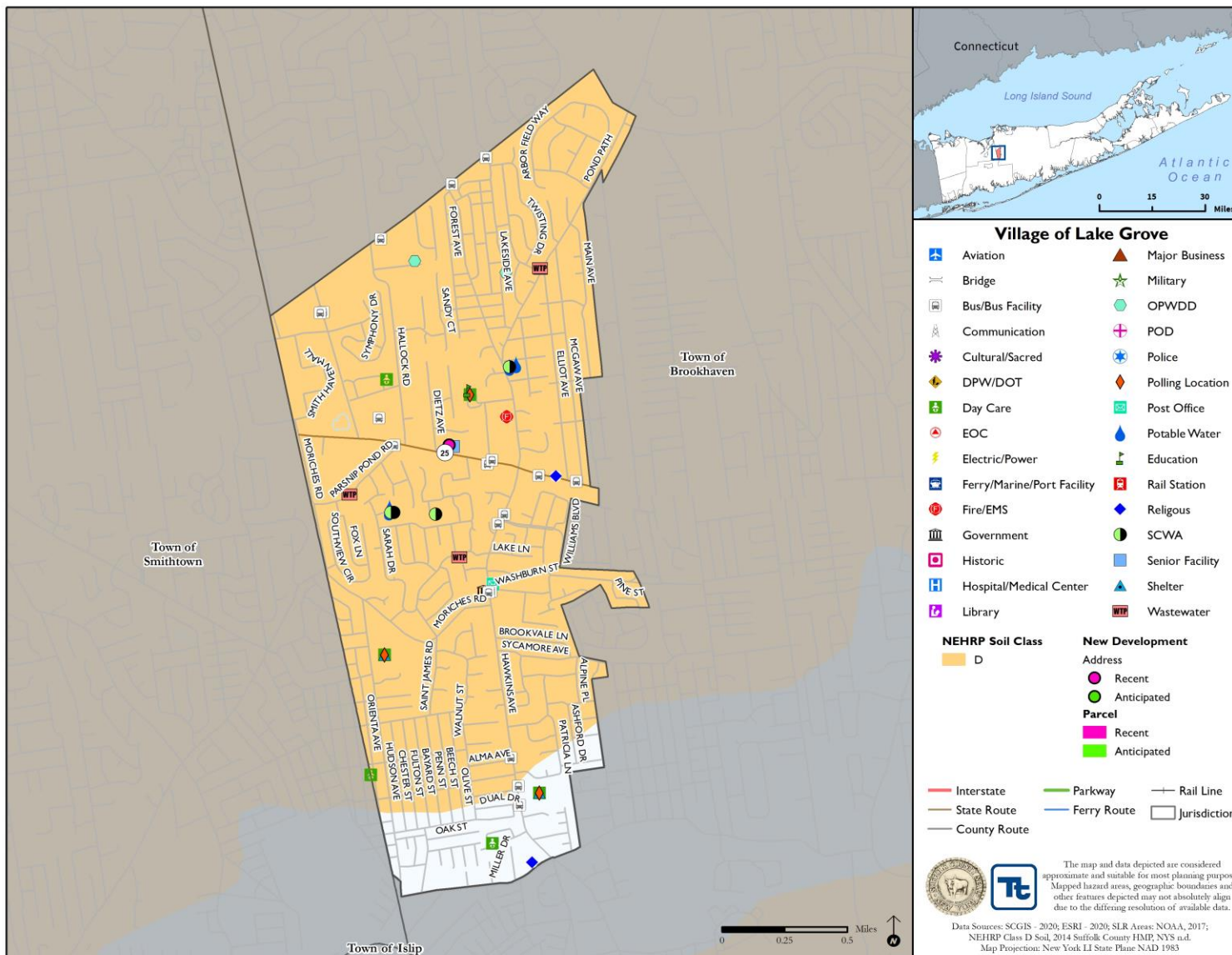
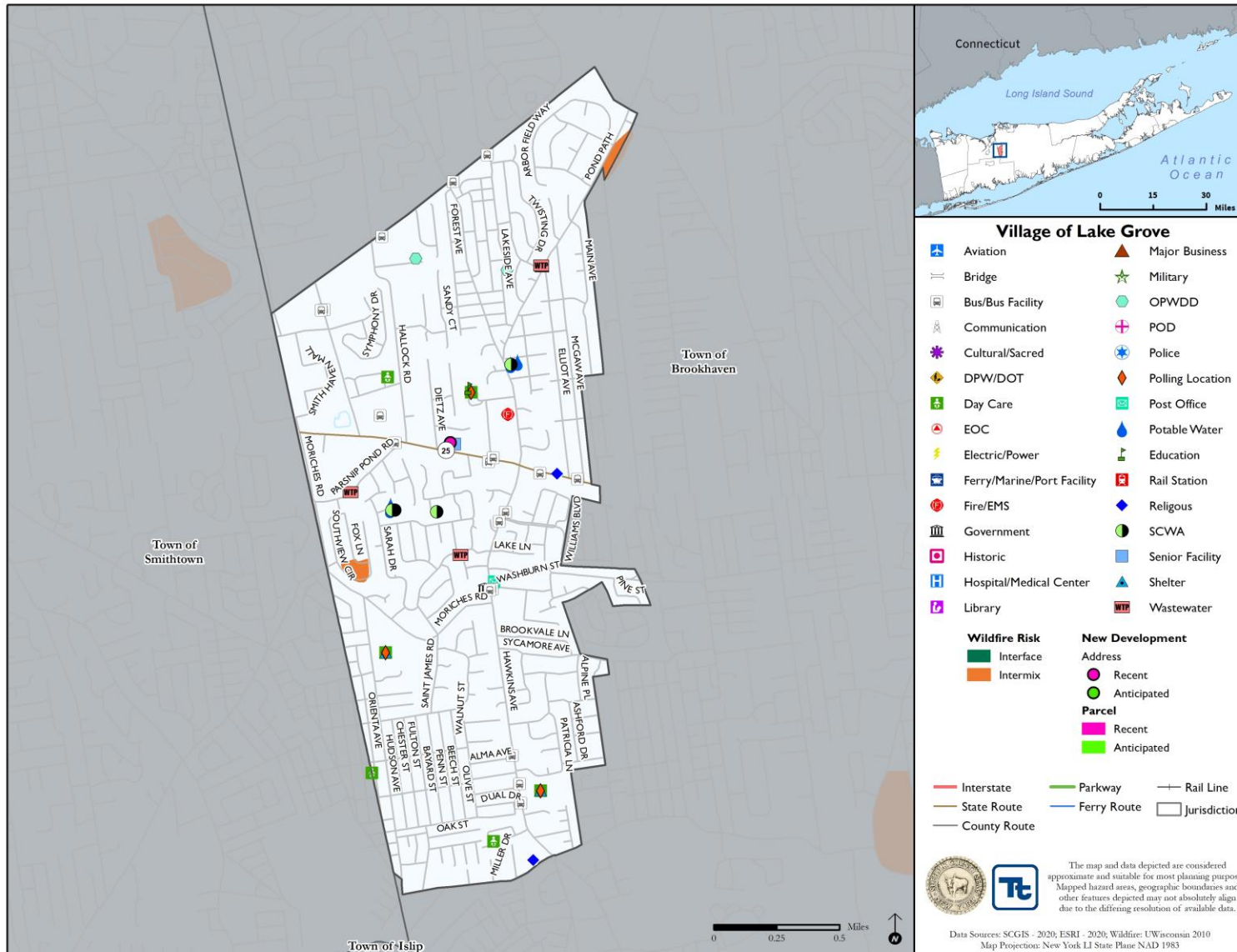




Figure 9.9-4. Village of Lake Grove Hazard Area Extent and Location Map 4





Action Worksheet			
Project Name:	Salt and Sand Barn		
Project Number:	2020-Lake Grove-001		
Risk / Vulnerability			
Hazard(s) of Concern:	Severe Storm, Winter Storm, Nor'Easter, Groundwater Contamination		
Description of the Problem:	The Village salt and sand barn (980 Hawkins Avenue) is degraded and needs replacement/upgrade. Future storm damage could result in the Village being unable to properly keep streets clear in winter storm events. Runoff from salt due to rainfall can lead to groundwater contamination issues.		
Action or Project Intended for Implementation			
Description of the Solution:	The Village will replace the salt and sand barn with a structurally sound and weather-proof structure to protect the Village salt and sand supply for winter storm response. The Building Department will be responsible for construction.		
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 type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect to the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	Structure to meet building code	Estimated Benefits (losses avoided):	Continuity of road clearing services in winter, reduction in runoff
Useful Life:	50 years	Goals Met:	1, 2, 3, 7
Estimated Cost:	\$200,000	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 1 year
Estimated Time Required for Project Implementation:	3 months	Potential Funding Sources:	FEMA HMGP and PDM, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Municipal Budget
Responsible Organization:	Building Department, Highway Department	Local Planning Mechanisms to be Used in Implementation if any:	Capital Improvements, Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Hire contractor for roadway treatment	Variable based on rate and number of applications per year; assumed at \$600 per mile	Costly, most contractors are too small to service the entire village
Contract with Town of Brookhaven for roadway treatment	Variable based on rate and number of applications per year; assumed at \$600 per mile	Costly	
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Evaluation and Prioritization		
Project Name:	Salt and Sand Barn	
Project Number:	2020-Lake Grove-001	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protects continuity of services to keep roadways clear for safe travel and emergency response.
Property Protection	0	
Cost-Effectiveness	1	
Technical	1	The project is technically sound
Political	1	There is public support for the project
Legal	1	The Village has the legal authority to complete the project
Fiscal	0	Project requires funding support
Environmental	1	Project will reduce chance of runoff and groundwater contamination
Social	1	
Administrative	1	
Multi-Hazard	1	Severe Storm, Winter Storm, Nor'Easter, Groundwater Contamination
Timeline	1	Within 2 years
Agency Champion	1	Building Department, Highway Department
Other Community Objectives	1	Continuity of critical services
Total	12	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Village Offices Generator		
Project Number:	2020-Lake Grove-002		
Risk / Vulnerability			
Hazard(s) of Concern:	All hazards		
Description of the Problem:	The Village Offices (980 Hawkins Avenue) are serviced by an outdated backup generator. The generator also services the Recreation Building which is located adjacent to the Village Offices. The Recreation Building could serve as a backup sheltering location and has the space to host medical related events such as blood drives.		
Action or Project Intended for Implementation			
Description of the Solution:	The Village will then purchase and install a liquid propane/natural gas automatic standby generator (120VAC/240VAC) at the Village Offices, including a 200 amp panel transfer switch.		
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 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:	Power loss averted	Estimated Benefits (losses avoided):	Ensures continuity of operations; provides a shelter for residents
Useful Life:	20 years	Goals Met:	1, 2, 7
Estimated Cost:	\$7,000	Mitigation Action Type:	Structure and Infrastructure Projects (SIP)
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Immediately after funding received
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	FEMA HMGP and PDM, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Municipal Budget
Responsible Organization:	Village Engineer, Building 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.
	Install solar panels	\$100,000	Weather dependent; need large amount of space for installation; expensive if repairs needed
	Install wind turbine	\$100,000	Weather dependent; poses a threat to wildlife; expensive repairs if needed
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Village Offices Generator	
Project Number:	2020-Lake Grove-002	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of Village Offices and the potential backup shelter of the Recreation Center
Property Protection	1	Project will protect Village Offices from power loss.
Cost-Effectiveness	1	
Technical	1	The project is technically feasible.
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	1	All hazards
Timeline	1	1 year
Agency Champion	1	Village Engineer, Building Department
Other Community Objectives	1	Protects continuity of operations
Total	13	
Priority (High/Med/Low)	High	