Village of Lake Success Annex

This document presents the Village of Lake Success's annex to the *Nassau County Multi-Jurisdictional Hazard Mitigation Plan*.

Hazard Mitigation Plan Points of Contact

The individuals below have been identified as this jurisdiction's points of contact for the hazard mitigation plan. These individuals are members of the Planning Committee that met regularly for the update of this plan and will continue to meet in the years ahead to implement it.

Primary Point of Contact	Alternate Point of Contact
Patrick Farrell, Administrator &Treasurer Village Of Lake Success 318 Lakeville Road Great Neck, NY 11020 vlsadmin@optonline.net 516-482-4411	Pat McDermott, Superintendent Public Works Village Of Lake Success 318 Lakeville Road Great Neck, NY 11020 vlsadmin@optonline.net 516-482-4411

Profile

The Village of Lake Success covers approximately 1.88 square miles[1] and has a total population of 3,112 according to the American Community Survey 5-Year 2018 Estimates. Some of the demographics of the Village of Lake Success are summarized in Table 1. This information supported the development of mitigation actions that account for the needs of the most vulnerable individuals in the community.

Table 1: Village of Lake Success Demographic Information

Demographic		Demographic	
Below 5 Years Old	2.6%	Black or African American alone	7.5%
Above 65 Years Old	31.0%	American Indian and Alaska Native alone	0.6%
Individuals with Disabilities	Information not provided	Asian alone	39.7%
Persons in Poverty	5.0%	Native Hawaiian and other Pacific Islander alone	0.0%
Renters	3.2%	Two or More Races	15.4%
Without a High School Diploma	9.7%	White alone, not Hispanic or Latino, percent	48.4%
Without Access to Broadband Internet	0.0%	Hispanic or Latino	0.5%

[1] This is inclusive of land area only.

Lake Success has expanded medical and healthcare facility development, including existing office space. In the past few years, Northwell Hospital expanded the current infrastructure (i.e., helicopter landing pad, new lab facilities, cancer center, training center and HQ building). The Village will look to continue to expand existing office space. The jurisdiction continues to maintain zoning and a planning team. By understanding these development trends and how they intersect with hazard-prone areas, this allows for current and future vulnerabilities to be planned for and avoided.

Refer to the **County Profile** section of this plan for additional information related to current and future conditions of the County's vulnerable population and the natural environment. This information provides important context for understanding hazard mitigation planning.

Hazard Vulnerability

This section summarizes how the natural hazards profiled in Section 4 of this plan impact the Village of Lake Success. The jurisdiction identified Flooding, Hurricane, Severe Winter Weather, and Wind as the hazards that most impact the community. Table 2 shows the sectors of the community that are most likely to be impacted by each hazard. The categories that were considered included the community, economy, health and social services, housing, infrastructure, natural and cultural resources, or no impact. No impact indicates that the jurisdiction did not identify a noticeable impact from the hazard over the past five years, even if the hazard occurs. This information was used to develop a relevant and effective mitigation strategy for the jurisdiction. Detailed hazard event histories, critical facility exposure, and additional vulnerability information can be found in each hazard profile in Section 4 of this plan.

The hazards that most impact the Village of Lake Success include: **Flooding, Hurricane, Severe Winter Weather, and Wind.**

Table 2: Village of Lake Success Hazard Impacts

Hazard	Impact Categories
Coastal Hazards	No Impact
Drought	No Impact
Extreme Temperatures	Natural and Cultural Resources
Flooding	Community
Ground Failure	Infrastructure
Hurricane and Tropical Storms	Community
Hail	Community
Lightning	No Impact
Severe Winter Weather	Community
Tornados	No Impact
Wind	Community, Infrastructure

Capability Assessment

This section summarizes the capabilities that the Village of Lake Success has in place that can support hazard mitigation. These capabilities include plans, ordinances, staff, financial resources, and program participation. This Capability Assessment was used to help drive the identification and development of the projects presented in the Mitigation Strategy to make sure that they are appropriate in scope and achievable to implement.

Legal and Regulatory Capability Assessment

Table 3 lists the assessment of existing legal and regulatory tools for the Village of Lake Success. The Village of Lake Success maintains several key administrative and technical capabilities to support mitigation, including building codes, emergency response plans, site plan review requirements, stormwater management plans, and zoning ordinances. These capabilities are critical to consider as tools in developing and implementing mitigation strategies. To further enhance their mitigation capabilities, the Village can consider the capabilities in the table below that the Village currently does not have. These additional capabilities would either support creating a legal framework or strategy for implementing a diversity of mitigation actions.

Table 3: Village of Lake Success Existing Legal and Regulatory Capabilities

Regulatory Tool	Yes / No	Citation (*if applicable*)
Access and Functional Needs Plan	No	
Building Code	Yes	Village Code Book
Capital Improvement Plan	No	
Climate Action Plan	No	
Community Development Plan	No	
Comprehensive Plan / Master Plan	No	
Economic Development Plan(s)	No	
Emergency Response Plan(s)	Yes	Not provided
Floodplain Management Plan(s)	No	
Growth Management Plan(s)	No	
NFIP Flood Damage Prevention Ordinance(s)	No	
Open Space Plan(s)	No	
Post Disaster Recovery Ordinance(s)	No	
Post Disaster Recovery Plan(s)	No	
Real Estate Disclosure Requirements	No	
Resilience Plan(s)	No	
Site Plan Review Requirement(s)	Yes	Village Code Book
Small Area Development Plan(s)	No	

Regulatory Tool	Yes / No	Citation (*if applicable*)
Special Purpose Ordinance(s)	No	
Stormwater Management Plan(s)	Yes	Not provided
Subdivision Ordinance(s)	No	
Transportation Plan(s)	No	
Zoning Ordinance(s)	Yes	Village Code Book

Administrative and Technical Capability Assessment

Table 4 lists the assessment of existing administrative and technical tools for the Village of Lake Success. The Village of Lake Success has a high level of primary administrative and technical capabilities to support mitigation. This includes engineering and planning. Increasing training capacity and expertise of these individuals will support mitigation practice in the Village. Diversifying expertise to be inclusive of management and analyst skills will also support mitigation practice.

Table 4: Village of Lake Success Existing Staff / Personnel Resource

Staff / Personnel Resource	Yes / No	Details
Emergency Manager(s)	Yes	Patrick Farrell - Administrator Treasurer
Engineer(s) trained in construction practices related to buildings/infrastructure	Yes	FPM Engineering
Engineer(s) with an understanding of natural and/or human caused hazards	Yes	FPM Engineering
Engineer(s) with knowledge of land development and land management practices	Yes	FPM Engineering
Grant Writers	No	
Personnel skilled or trained in Geographic Information Systems	Yes	
Personnel trained in construction practices related to buildings/infrastructure	Yes	Supt. Buildings
Planner(s) with an understanding of natural hazards	Yes	FPM Engineering
Planner(s) with knowledge of land development and land management practices	Yes	FDT Law
Scientist(s) familiar with natural hazards	No	
Surveyors	No	

Fiscal Capability Assessment

Table 5 lists the assessment of existing fiscal tools for the Village of Lake Success. Funding is often the biggest barrier when implementing mitigation programs. The Village is primarily able to fund mitigation programs by incurring debt through general obligation and special tax bonds and capital improvements project funding. Village of Lake Success should consider explore additional fiscal capabilities in order to gain access to additional funding for mitigation.

Table 5: Village of Lake Success Existing Fiscal Capabilities

Resources	Yes / No	Additional Details
Ability to incur debt through general obligation bonds	Yes	Village of Lake Success GO Bond
Ability to incur debt through private activity bonds	No	
Ability to incur dept through special tax bonds	Yes	Village of Lake Success Deficiency Bond
Authority to levy taxes for specific purposes	No	
Authority to utilize user fees for utility services	No	
Authority to withhold public expenditures in hazard prone areas	No	
Capital improvements project funding	Yes	
Community Development Block Grants (CDBG)	No	
Impact fees for home buyers and/or developers	No	
State mitigation grant programs	No	

Community Classification Assessment

Table 6 lists the assessment of existing community classifications for the Village of Lake Success. Exploring gaining one or more community classifications will guide the Village's mitigation programs and support capacity building.

Table 6: Village of Lake Success Community Classifications

Classification	Yes/No (or Status)
Building Code Effectiveness Grading Schedule (BCEGS)	No
Public Protection Classification Program	No
Community Rating System (CRS)	No
Other Classifications	No

National Flood Insurance Program Summary

This section provides a summary of the floodplain management capabilities for Village of Lake Success and how the jurisdiction is meeting the requirements of the National Flood Insurance

Program (NFIP). Flood-prone areas in the Village include areas of lower elevation located near Tanners Road and Great Neck South High School.

The Village's Superintendent of Public Works is responsible for floodplain management. The Village did not note any current barriers to running a successful NFIP program. The flood maps for this jurisdiction accurately portray the current flood risk. There are currently no RiskMAP projects ongoing in this jurisdiction.

The Village of Lake Success is in good standing with the NFIP. Based on documentation received from NYSDEC, a compliance audit (e.g., Community Assistance Visit or Community Assistance Contacts) has not been conducted for the municipality but the Village will determine if one is needed in the future and schedule it. There are no NFIP compliance violations that need to be addressed in this jurisdiction.

The Village installs new drainage and dry wells to mitigate flooding. The Flood Damage Prevention Ordinance was last amended 12/08/2008 and can be referenced in Chapter 57, Village Code, L.L. No. 3-2008.

Mitigation Strategy

The following section provides an overview of the mitigation strategy for Village of Lake Success. It provides an overview of the jurisdiction's previous mitigation actions, proposed actions, and the NYS mitigation worksheets.

Previous Mitigation Actions

Action	**Install Natural Gas Generator to power entire Village Hall Office and Community Building facilities. Public Bathrooms and Multi-Purpose Rooms**
Risk Category	Power outages due to extreme weather
Project Status	In Progress
Project Status Description	Portions of this project have been implemented. The Village updated the bathrooms, added a workout facility, and added multi-purpose rooms. However, the generator itself has not yet been replaced.
Carried Forward to 2020 Plan	Yes
Required Changes	Yes, this mitigation action should be revised to focus on the generator upgrade exclusively.

Proposed Mitigation Actions

Project Number	VLS_1	VLS_2
Project Name	Canal Restoration Improvement	Natural Gas Generator
Goal being met	1, 3	1, 2, 3
Hazards to be mitigated	Drought	Loss of power
Priority Ranking	Low	High
Description of the Problem	During drought filtered water must be pumped from plumed aquifer	There is no generator for electricity for the Village Hall and Community Building during blackouts
Description of the Solution	Restoring and improving the depth of the canal connecting Lake Surprise and Lake Success will reduce the need to pump water from the plumed aquifer.	Install a Natural Gas Generator so there will be no interruption of power due to no fuel delivery.
Critical Facility	No	No
EHP Issues	Unknown	Unknown
Estimated Timeline	Two years	Two Years
Lead Agency	Village	Village
Estimated Costs	$600000	80000 - 120,000
Estimated Benefits	Loss of $3,000,000 golf course and Village facilities	The installation of the generator would provide wide ranging benefits, including sustained operations of the Village Hall and continued ability to provide emergency services using the facility as needed.
Potential Funding Sources	HMGP	HMGP

Mitigation Action Worksheets

The following pages contain mitigation action worksheets that provide additional detail some of the jurisdiction's proposed mitigation actions.

Nassau County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction: Village of Lake Success

NYS DHSES Action Worksheet			
Project Name:	Emergency Natural Gas Generator		
Project Number:	VLS_2		
Risk / Vulnerability			
Hazard of Concern:	Loss of Power		
Description of the Problem:	During long extended blackouts, Village Hall will be shut and there will be no emergency shelter to assist emergency services with shelter or medical supply distribution because there is no backup power.		
Action or Project Intended for Implementation			
Description of the Solution:	Install a Natural Gas Generator so there will be no interruption of power due to no fuel delivery.		
Is this project related to a Critical Facility?	Yes		No NO
(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)			
Level of Protection:	This protects against multiple hazards - would provide emergency power protection in the event of outages caused by high winds, winter storms, etc.	Estimated Benefits (losses avoided):	The installation of the generator would provide wide ranging benefits, including sustained operations of the Village Hall and continued ability to provide emergency services using the facility as needed.
Useful Life:	25-30 years		
Estimated Cost:	$80,000-$120,000		
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Two years
Estimated Time Required for Project Implementation:	Two weeks to install gas line and generator	Potential Funding Sources:	HMGP Funds
Responsible Organization:	Village of Lake Success	Local Planning Mechanisms to be Used in Implementation, if any:	N/A

Three Alternatives Considered (including No Action)			
Alternatives:	*Action*	*Estimated Cost*	*Evaluation*
	No Action	$0	
	Install a large generator (over 85kW)	$350,000+	Cost prohibitive; not necessary
	Purchase remote generator	$250,000	Cost prohibitive / no clear justifications for mobile generator over fixed-location generator.

Progress Report (for plan maintenance)	
Date of Status Report:	July 7, 2020
Report of Progress:	Estimates were received to install a 80kW generator. Anything larger increases cost significantly.
Update Evaluation of the Problem and/or Solution:	

Instructions

(Name of Jurisdiction)

NYS DHSES Action Worksheet			
Project Name:	Each action must have a unique project number referenced here and in the Action Tables.		
Project Number:	Each action must have a unique project name referenced here and in the Action Tables.		
Risk / Vulnerability			
Hazard of Concern:	Identify the hazard being addressed with this action.		
Description of the Problem:	Provide a detailed narrative of the problem. Describe the natural hazard you wish to mitigate, its impacts to the jurisdiction, past damages and loss of service, etc. Include the street address of the property/project location (if applicable), adjacent streets, and easily identified landmarks such as water bodies and well-known structures, and end with a brief description of existing conditions (topography, terrain, hydrology) of the site.		
Action or Project Intended for Implementation			
Description of the Solution:	Provide a detailed narrative of the solution. Describe the physical area (project limits) to be affected, both by direct work and by the project's effects; how the action would address the existing conditions previously identified; proposed construction methods, including any excavation and earth-moving activities; where you are in the development process (e.g., are studies and/or drawings complete), etc., the extent of any analyses or studies performed (attach any reports or studies).		
Is this project related to a Critical Facility?	Yes ☐	No	
(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)			
Level of Protection:	Identify the level of protection the proposed project will provide. Ex. 100-year (1%) flood.	Estimated Benefits (losses avoided):	Identify the benefits that implementation of this project will provide. If dollar amounts are known, include them. If dollar amounts are unknown or are unquantifiable, describe the losses that will be avoided.
Useful Life:	Identify the number of years the project will provide protection against the hazard.		
Estimated Cost:	Identify all estimated costs associated with implementation.		
Plan for Implementation			
Prioritization:	Identify the priority based on the prioritization method agreed upon.	Desired Timeframe for Implementation:	Identify the desired start time for this project. Ex. Within 6 months.
Estimated Time Required for Project Implementation:	Provided the estimated time required to complete the project from start to end.	Potential Funding Sources:	Multiple sources of potential funding should be listed when appropriate.
Responsible Organization:	Identify the name of a department or agency responsible for implementation, not the jurisdiction.	Local Planning Mechanisms to be Used in Implementation, if any:	Consider the use of local planning mechanisms that will be used to implement this project.
Three Alternatives Considered (including No Action)			
Alternatives:	*Action*	*Estimated Cost*	*Evaluation*
	No Action	$0	
	Alternative 1 Brief Description		Include a description of pros/cons of Alternative 1.
	Alternative 2 Brief Description		Include a description of pros/cons of Alternative 2.
Progress Report (for plan maintenance)			
Date of Status Report:	This section should be completed during plan maintenance/evaluation.		
Report of Progress:	Describe what progress, if any, has been made on this project. If it has been determined the jurisdiction no longer wishes to pursue implementation, state that here and indicate why.		
Update Evaluation of the Problem and/or Solution:	Provide an updated description of the problem and solution, and what has happened since initial consideration/development.		

Nassau County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction: Village of Lake Success

NYS DHSES Action Worksheet			
Project Name:	Canal Restoration Improvement Project		
Project Number:	VLS_1		
Risk / Vulnerability			
Hazard of Concern:	Drought		
Description of the Problem:	During droughts, Lake Surprise cannot sustain enough water to irrigate the golf course and Village facilities. During drought times, temporary filters are brought in to filter the water that is pumped from the aquifer (a site of groundwater contamination) in the Village to sustain the golf course and Village facilities. The filters have been funded by Lockheed Martin who is responsible for the aquifer cleanup. The DEC approved this plan to improve the connection between Lake Success and Lake Surprise to eliminate pumping water from the aquifer.		
Action or Project Intended for Implementation			
Description of the Solution:	Restoring and improving the depth of the canal connecting Lake Surprise and Lake Success will reduce the need to pump water from the plumed aquifer.		
Is this project related to a Critical Facility?	Yes		No NO
(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)			
Level of Protection:	5 Year Drought	Estimated Benefits (losses avoided):	$3,000,000
Useful Life:	50-75 Years		
Estimated Cost:	$600,000		
Plan for Implementation			
Prioritization:	Low	Desired Timeframe for Implementation:	One to two years
Estimated Time Required for Project Implementation:	One year	Potential Funding Sources:	HMF
Responsible Organization:	Village	Local Planning Mechanisms to be Used in Implementation, if any:	Village

Three Alternatives Considered (including No Action)			
Alternatives:	*Action*	*Estimated Cost*	*Evaluation*
	No Action	$0	
	Install a pump from Lake Success to Lake Surprise	$300,000	Estimated cost and available funds proved insufficient through bid process.
	Study alternatives not yet identified.	TBD	This alternative will help identify potential solutions not currently understood.

Progress Report (for plan maintenance)	
Date of Status Report:	July 7, 2020
Report of Progress:	NYS DEC has approved this project. Bids were sent out in 2018 and came in around $600,000 which was above engineers estimates of $350,000. The Village currently has $200,000 left from a Lockheed Martin Environmental projects Grant available to help fund part of this project.
Update Evaluation of the Problem and/or Solution:	Cheaper alternative fixes are being investigated.

Instructions

(Name of Jurisdiction)

NYS DHSES Action Worksheet			
Project Name:	Each action must have a unique project number referenced here and in the Action Tables.		
Project Number:	Each action must have a unique project name referenced here and in the Action Tables.		
Risk / Vulnerability			
Hazard of Concern:	Identify the hazard being addressed with this action.		
Description of the Problem:	Provide a detailed narrative of the problem. Describe the natural hazard you wish to mitigate, its impacts to the jurisdiction, past damages and loss of service, etc. Include the street address of the property/project location (if applicable), adjacent streets, and easily identified landmarks such as water bodies and well-known structures, and end with a brief description of existing conditions (topography, terrain, hydrology) of the site.		
Action or Project Intended for Implementation			
Description of the Solution:	Provide a detailed narrative of the solution. Describe the physical area (project limits) to be affected, both by direct work and by the project's effects; how the action would address the existing conditions previously identified; proposed construction methods, including any excavation and earth-moving activities; where you are in the development process (e.g., are studies and/or drawings complete), etc., the extent of any analyses or studies performed (attach any reports or studies).		
Is this project related to a Critical Facility?	Yes ☐	No	
(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)			
Level of Protection:	Identify the level of protection the proposed project will provide. Ex. 100-year (1%) flood.	Estimated Benefits (losses avoided):	Identify the benefits that implementation of this project will provide. If dollar amounts are known, include them. If dollar amounts are unknown or are unquantifiable, describe the losses that will be avoided.
Useful Life:	Identify the number of years the project will provide protection against the hazard.		
Estimated Cost:	Identify all estimated costs associated with implementation.		
Plan for Implementation			
Prioritization:	Identify the priority based on the prioritization method agreed upon.	Desired Timeframe for Implementation:	Identify the desired start time for this project. Ex. Within 6 months.
Estimated Time Required for Project Implementation:	Provided the estimated time required to complete the project from start to end.	Potential Funding Sources:	Multiple sources of potential funding should be listed when appropriate.
Responsible Organization:	Identify the name of a department or agency responsible for implementation, not the jurisdiction.	Local Planning Mechanisms to be Used in Implementation, if any:	Consider the use of local planning mechanisms that will be used to implement this project.
Three Alternatives Considered (including No Action)			
Alternatives:	*Action*	*Estimated Cost*	*Evaluation*
	No Action	$0	
	Alternative 1 Brief Description		Include a description of pros/cons of Alternative 1.
	Alternative 2 Brief Description		Include a description of pros/cons of Alternative 2.
Progress Report (for plan maintenance)			
Date of Status Report:	This section should be completed during plan maintenance/evaluation.		
Report of Progress:	Describe what progress, if any, has been made on this project. If it has been determined the jurisdiction no longer wishes to pursue implementation, state that here and indicate why.		
Update Evaluation of the Problem and/or Solution:	Provide an updated description of the problem and solution, and what has happened since initial consideration/development.		