

Village of Massapequa Park Annex

This document presents the Village of Massapequa Park’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
Linda Tuminello, Village Administrator Village of Massapequa Park 151 Front Street Massapequa Park, NY 11762 villadmin@masspk.com 516-798-0244 X133	Robert Macri, Superintendent at Department of Public Works Village of Massapequa Park 151 Front Street Massapequa, NY 11762 superintendent@masspk.com 516-798-0244 X138

Profile

The Village of Massapequa Park covers approximately 2.16 square miles¹ and has a total population of 17,223 according to the American Community Survey 5-Year 2018 Estimates. Some of the demographics of the Village of Massapequa Park 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 Massapequa Park Demographic Information

Demographic	Demographic
Below 5 Years Old	5.2%
Above 65 Years Old	17.1%
Individuals with Disabilities	Not available
Persons in Poverty	1.5%
Renters	2.6%
Without a High School Diploma	3.8%
Without Access to Broadband Internet	0.0%
Black or African American alone	0.3%
American Indian and Alaska Native alone	0.0%
Asian alone	1.7%
Native Hawaiian and other Pacific Islander alone	0.0%
Two or More Races	0.2%
White alone, not Hispanic or Latino, percent	90.6%
Hispanic or Latino	0.8%

¹ This is inclusive of land area only.

The Village of Massapequa has seen residential upgrades and renovations but very little new construction. 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 Massapequa Park. The jurisdiction identified Flooding as the hazard that impacts the community most. 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 hazard that impacts the Village of Massapequa Park most is **Flooding**.

Table 2: Village of Massapequa Park Hazard Impacts

Hazard	Impact Categories
Coastal Hazards	No Impact
Drought	No Impact
Extreme Temperatures	No Impact
Flooding	Housing
Ground Failure	No Impact
Hurricane and Tropical Storms	No Impact
Hail	No Impact
Lightning	No Impact
Severe Winter Weather	No Impact
Tornados	No Impact
Wind	No Impact

Capability Assessment

This section summarizes the capabilities that the Village of Massapequa Park 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 Massapequa Park. The Village of Massapequa Park maintains several key administrative and technical capabilities to support mitigation, including building codes, capital improvement plans, community development plans, comprehensive/master plans, emergency response plans, floodplain management plans, open space plans, post-disaster recovery ordinances, post disaster recovery plans, real estate disclosure requirements, site plan review requirements, small area development plans, special purpose ordinances, stormwater management plans, subdivision ordinances, transportation 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 Massapequa Park Existing Legal and Regulatory Capabilities

Regulatory Tool	Yes / No	Citation (if applicable)
Access and Functional Needs Plan	No	
Building Code	Yes	
Capital Improvement Plan	Yes	
Climate Action Plan	No	
Community Development Plan	Yes	
Comprehensive Plan / Master Plan	Yes	
Economic Development Plan(s)	No	
Emergency Response Plan(s)	Yes	
Floodplain Management Plan(s)	Yes	
Growth Management Plan(s)	No	
NFIP Flood Damage Prevention Ordinance(s)	No	
Open Space Plan(s)	Yes	
Post Disaster Recovery Ordinance(s)	Yes	
Post Disaster Recovery Plan(s)	Yes	
Real Estate Disclosure Requirements	Yes	
Resilience Plan(s)	No	
Site Plan Review Requirement(s)	Yes	
Small Area Development Plan(s)	Yes	
Special Purpose Ordinance(s)	Yes	
Stormwater Management Plan(s)	Yes	
Subdivision Ordinance(s)	Yes	

Regulatory Tool	Yes / No	Citation (if applicable)
Transportation Plan(s)	Yes	
Zoning Ordinance(s)	Yes	

Administrative and Technical Capability Assessment

Table 4 lists the assessment of existing administrative and technical tools for the Village of Massapequa Park. The Village of Massapequa Park's primary administrative and technical capabilities include engineers, a GIS analyst, and a construction practices personnel. The Village can bolster their capabilities in this category by identifying individuals with expertise in land use and natural hazards (specifically related to flooding).

Table 4: Village of Massapequa Park Existing Staff / Personnel Resource

Staff / Personnel Resource	Yes / No	Details
Emergency Manager(s)	Yes	Robert Macri
Engineer(s) trained in construction practices related to buildings/infrastructure	Yes	Garet Lamb
Engineer(s) with an understanding of natural and/or human caused hazards	No	
Engineer(s) with knowledge of land development and land management practices	Yes	Garet Lamb
Grant Writers	No	
Personnel skilled or trained in Geographic Information Systems	Yes	Linda Tuminello
Personnel trained in construction practices related to buildings/infrastructure	Yes	Garet Lamb
Planner(s) with an understanding of natural hazards	No	
Planner(s) with knowledge of land development and land management practices	No	
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 Massapequa Park. 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, capital improvements project funding, and CDBG programs. Village of Massapequa Park should

consider explore additional fiscal capabilities in order to gain access to additional funding for mitigation.

Table 5: Village of Massapequa Park Existing Fiscal Capabilities

Resources	Yes / No	Additional Details
Ability to incur debt through general obligation bonds	Yes	
Ability to incur debt through private activity bonds	No	
Ability to incur debt through special tax bonds	Yes	
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)	Yes	
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 Massapequa Park. Participation in the BCEGS program demonstrates increased capabilities of the Village related to mitigation. Exploring gaining additional community classifications will guide the Village's mitigation programs and support capacity building.

Table 6: Village of Massapequa Park Community Classifications

Classification	Yes/No (or Status)
Building Code Effectiveness Grading Schedule (BCEGS)	Yes
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 Massapequa Park and how the jurisdiction is meeting the requirements of the National Flood Insurance Program (NFIP). There are currently no RiskMAP projects ongoing in this jurisdiction.

The Village of Massapequa Park is in good standing with the NFIP. Based on documentation received from NYSDEC, the Village had its last Community Assistance Contact on 11/27/2012 and its last Community Assistance Visit on 01/09/2019. There are no NFIP compliance violations that need to be addressed in this jurisdiction.

Mitigation Strategy

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

Previous Mitigation Actions

Action	Install Bulkhead along Colleran Park Shoreline
Risk Category	Flooding
Project Status	Completed
Project Status Description	Completed
Carried Forward to 2020 Plan	No
Required Changes	No

Proposed Mitigation Actions

Project Number	VMP_1	VMP_2
Project Name	Massapequa Park Flood Diversion	Park Lane Housing Development
Goal being met	3	3
Hazards to be mitigated	Flooding	Flooding
Priority Ranking	High	High
Description of the Problem	Flooding occurs on Front Street, as well as Ocean Avenue and Philadelphia Avenue, during times of heavy rain. This causes damage to streets, infrastructure, and homes.	New homes are being built in a "Low Area" that is prone to flooding and will need additional storm drains being installed.
Description of the Solution	To alleviate street flooding, raise Philadelphia Avenue, add additional piping, add/or alter storm drains, scrape stumps, and divert water elsewhere.	Build homes higher up with additional on-site storm drains and enhanced piping.
Critical Facility	No	No
EHP Issues	Yes	Yes
Estimated Timeline	1 Year	1 Year
Lead Agency	Town of Oyster Bay and Village Massapequa Park	Village Massapequa Park
Estimated Costs	\$500,000	\$250,000
Estimated Benefits	The proposed solution will avoid property damage to several homes, road deterioration, and sump deterioration.	This project will prevent flooding to new homes and divert storm water
Potential Funding Sources	New York State	Capital Project Funding and NYS Grants

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: Incorporated Village of Massapequa Park ("Village")

NYS DHSES Action Worksheet			
Project Name:	Massapequa Park Flood Diversion		
Project Number:	VMP_1		
Risk / Vulnerability			
Hazard of Concern:	Flooding		
Description of the Problem:	Flooding occurs on Front Street, as well as Ocean Avenue and Philadelphia Avenue during times of heavy rain. This causes damage to streets, infrastructure, and homes.		
Action or Project Intended for Implementation			
Description of the Solution:	To alleviate street flooding, raise Philadelphia Avenue, add additional piping, add/or alter storm drains, scrape stumps, and divert water elsewhere.		
Is this project related to a Critical Facility?		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 worst damage scenario, whichever is greater.)			
Level of Protection:	High	Estimated Benefits (losses avoided):	The proposed solution will avoid property damage to several homes, road deterioration, and sump deterioration.
Useful Life:	20+ Years		
Estimated Cost:	\$500,000		
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	1 Year
Estimated Time Required for Project Implementation:	1 Year	Potential Funding Sources:	NY State
Responsible Organization:	Town of Oyster Bay and Village Massapequa Park	Local Planning Mechanisms to be Used in Implementation, if any:	NYS Review, Town of Oyster Bay and Village Site Plan Review
Three Alternatives Considered (including No Action)			
Alternatives:	<i>Action</i>	<i>Estimated Cost</i>	<i>Evaluation</i>
	No Action	\$0	[]
	Install a Secondary Piping System	\$5,000,000	The install would be too expensive, create railroad/highway issues and some areas can only be accessed through private property.
	Divert water with an additional storm drain piping system.	\$2,000,000	Additional systems would be too expensive and other evaluation concerns were identified.
Progress Report (for plan maintenance)			
Date of Status Report:	August 2016		
Report of Progress:	NY State Has approved the project and funding has been secured. The project is out to bid as of July 28, 2020.		

Update Evaluation of the Problem and/or Solution:

The project has been approved and the village is awaiting successful bidder and for construction to begin. The village has secured a vacuum trailer as a temporary remedy to the flooding until the project commences. |

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 <input type="checkbox"/>	No <input type="checkbox"/>
(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:	<i>Action</i>	<i>Estimated Cost</i>	<i>Evaluation</i>
	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: INC Village of Massapequa Park

NYS DHSES Action Worksheet			
Project Name:	Park Lane Housing Development		
Project Number:	VMP_2		
Risk / Vulnerability			
Hazard of Concern:	Flooding		
Description of the Problem:	New homes are being built in a "Low Area" that is prone to flooding and will need additional storm drains being installed.		
Action or Project Intended for Implementation			
Description of the Solution:	Build homes higher up with additional on-site storm drains and enhanced piping.		
Is this project related to a Critical Facility?		Yes	No <input checked="" type="checkbox"/>
(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:	High	Estimated Benefits (losses avoided):	This project will prevent flooding to new homes and divert stormwater
Useful Life:	20 Years		
Estimated Cost:	\$250,000		
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	6 Months
Estimated Time Required for Project Implementation:	1 Year	Potential Funding Sources:	Capital Project Funding and NYS Grants
Responsible Organization:	INC Village of Massapequa Park	Local Planning Mechanisms to be Used in Implementation, if any:	Site Plan Review, and Design and Development
Three Alternatives Considered (including No Action)			
Alternatives:	<i>Action</i>	<i>Estimated Cost</i>	<i>Evaluation</i>
	No Action	\$0	
	Additional Storm Drainage	\$100,000	This is not desired by the community and would increase the need for additional on-site water storage.
	Diverted Storm Water Piping	\$100,000	Stormwater would be diverted into an underutilized sump.
Progress Report (for plan maintenance)			
Date of Status Report:	January 2020		
Report of Progress:	As of January 2020, The Village was in the planning and design state with heavy involvement from site plan review.		
Update Evaluation of the Problem and/or Solution:	There have been changes/alterations to the initial plans including reducing the number of homes being built on the property.		

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 <input type="checkbox"/>	No <input type="checkbox"/>
(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:	<i>Action</i>	<i>Estimated Cost</i>	<i>Evaluation</i>
	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.		