

Village of Malverne Annex

This document presents the Village of Malverne’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
Keith Corbett, Mayor Village of Malverne 99 Church Street, Malverne, NY 11565 kcorbett@malvernevillage.org	Anthony Marino, Director Office of Emergency Management 99 Church Street Malverne, NY 11565 lihueguy@optonline.net 516-376-9304

Profile

The Village of Malverne covers approximately 1.06 square miles¹ and has a total population of 8,485 according to the American Community Survey 5-year 2018 Estimates. Some of the demographics of the Village of Malverne 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 Malverne Demographic Information

Demographic	Demographic
Below 5 Years Old	6.1%
Above 65 Years Old	21.9%
Individuals with Disabilities	5.5%
Persons in Poverty	2.7%
Renters	3.2%
Without a High School Diploma	4.6%
Without Access to Broadband Internet	10.3%
Black or African American alone	7.0%
American Indian and Alaska Native alone	0.1%
Asian alone	3.9%
Native Hawaiian and other Pacific Islander alone	0.0%
Two or More Races	4.8%
White alone, not Hispanic or Latino, percent	76.4%
Hispanic or Latino	7.4%

¹ This is inclusive of land area only.

Much of the development in Malverne in the past five years has been new residential construction, expansion of existing park areas, and new small businesses, which encompasses the broader spectrum of development. The jurisdiction maintains its zoning maps and 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 Malverne. The jurisdiction identified Extreme Temperatures, Flooding, Lightning, 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 Malverne include:
Extreme Temperatures, Flooding, Lightning, Severe Winter Weather, and Wind.

Table 2: Village of Malverne Hazard Impacts

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

Capability Assessment

This section summarizes the capabilities that the Village of Malverne 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 Malverne. The Village of Malverne maintains several key administrative and technical capabilities to support mitigation, including building codes, community development plans, emergency response plans, post disaster recovery plans, site plan review requirements, small area development plans, stormwater management plans, subdivision ordinances, 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 Malverne Existing Legal and Regulatory Capabilities

Regulatory Tool	Yes / No	Citation (if applicable)
Access and Functional Needs Plan	No	
Building Code	Yes	
Capital Improvement Plan	No	
Climate Action Plan	No	
Community Development Plan	Yes	
Comprehensive Plan / Master Plan	No	
Economic Development Plan(s)	No	
Emergency Response Plan(s)	Yes	
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)	Yes	
Real Estate Disclosure Requirements	No	
Resilience Plan(s)	No	
Site Plan Review Requirement(s)	Yes	
Small Area Development Plan(s)	Yes	

Special Purpose Ordinance(s)	No	
Stormwater Management Plan(s)	Yes	
Subdivision Ordinance(s)	Yes	
Transportation Plan(s)	No	
Zoning Ordinance(s)	Yes	

Administrative and Technical Capability Assessment

Table 4 lists the assessment of existing administrative and technical tools for the Village of Malverne. The Village of Malverne's primary administrative and technical capabilities include an emergency manager, a building and infrastructure engineer, 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 Malverne Existing Staff / Personnel Resource

Staff / Personnel Resource	Yes / No	Details
Emergency Manager(s)	Yes	Director, Deputy Director, members
Engineer(s) trained in construction practices related to buildings/infrastructure	Yes	George Lappin, Lou Santoro
Engineer(s) with an understanding of natural and/or human caused hazards	No	
Engineer(s) with knowledge of land development and land management practices	No	
Grant Writers	No	
Personnel skilled or trained in Geographic Information Systems	No	
Personnel trained in construction practices related to buildings/infrastructure	Yes	George Lappin, Lou Santoro
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 Malverne. 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 bonds and CDBG programs. Village of Malverne should consider explore additional fiscal capabilities in order to gain access to additional funding for mitigation.

Table 5: Village of Malverne 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 dept through special tax bonds	No	
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	No	
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 Malverne. Exploring gaining one or more community classifications will guide the Village's mitigation programs and support capacity building.

Table 6: Village of Malverne 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 Malverne and how the jurisdiction is meeting the requirements of the National Flood Insurance Program (NFIP).

The southwest area of the Village is the most flood-prone. The Village does not currently have a designated floodplain manager. Currently, the Village administers the NFIP through building permit and site plan review. The Village noted that training was a current barrier 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.

No properties in the jurisdiction have been substantially damaged as a result of recent flood events. The Village of Malverne is in good standing with the NFIP. Based on documentation received from NYSDEC, a compliance audit in the form of a Community Assistance Visit was conducted in the Village on 06/15/2010. There are no NFIP compliance violations that need to be addressed in this jurisdiction.

The Village repaves roads to control storm flow. The Flood Damage Prevention Ordinance was last amended 08/05/2009 and can be referenced in Chapter 313, Village Code, L.L. No. 2-2009.

Mitigation Strategy

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

Previous Mitigation Actions

Action	A permanent generator will be installed at the OEM facility. It will have sufficient capacity to allow the OEM to provide continuous service to the community’s needs during a power outage.	The purpose of this project is to completely rebuild the entire paved surface area of the Department of Public Works Facility. The project will include engineering design, removal of the existing pavement, installation of a new storm water management system including new drywells and drainage structures, re-grading of the subsurface to obtain proper water runoff and the repaving of the entire 32,000 square foot area. The completed project will mitigate the problems of storm water flooding, ponding and dangerous ice formation in this busy and critical facility. It will protect workers and volunteers from injuries and provide for improved services and response times to the residents, especially during storm events and emergencies.
Risk Category	Power failure from extreme weather events and emergencies	Flooding and extreme weather events
Project Status	Completed	75% Complete
Project Status Description		75% complete, continuation has been delayed by the Covid-19.
Carried Forward to 2020 Plan	No	No
Required Changes	No	No

Proposed Mitigation Actions

Project Number	VME_1	VME_2
Project Name	Department of Public Works (DPW) Bucket Truck	Flood Reduction
Goal being met	2, 3	1, 2, 3
Hazards to be mitigated	Wind and Snow Storms	Flooding
Description of the Problem	Malverne DPW does not have a bucket truck. Malverne has many large trees and the DPW personnel are unable to access all areas of downed trees in preparation for removal. Exterior structural problems at the second story or higher at Village owned buildings cannot be investigated or assessed properly by the Building Department	Five sites in the Village of Malverne experience localized flooding caused by a lack of or undersized storm infrastructure. The affected areas are near the intersection of Kenilworth St. and Nottingham Rd.; Eimer Ave. and Alnwick Rd.; Cornwell Ave and N. King St.; and Sydney Ave. and Burton St.
Description of the Solution	Buy a bucket truck for the Department of Public Works. This will support the community, health & social services, and infrastructure.	Increased underground storage and percolation of stormwater runoff through subgrade storage and percolation
Critical Facility	No	No
EHP Issues	Unknown	Unknown
Estimated Timeline	5 years	5 years
Lead Agency	Department of Public Works	Department of Public Works
Estimated Costs	\$45000	\$1500000
Estimated Benefits	Protect lives when removing downed trees, quickly remove impediments to reconstruction, prevent additional damage over time to buildings, implement timely building inspections.	Flooding relief for homeowners, reduction of hazardous conditions for traffic and pedestrians.
Potential Funding Sources	Village of Malverne, Capital funding	Village of Malverne, Capital improvement funds, Community improvement funds

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 Malverne]

NYS DHSES Action Worksheet			
Project Name:	Flood Reduction]		
Project Number:	Leave Blank		
Risk / Vulnerability			
Hazard of Concern:	Flooding]		
Description of the Problem:	Five sites in the Village of Malverne experience localized flooding caused by a lack of or undersized storm infrastructure. The affected areas are near the intersection of Kenilworth St. and Nottingham Rd.; Eimer Ave. and Alnwick Rd.; Cornwell Ave and N. King St.; and Sydney Ave. and Burton St.]		
Action or Project Intended for Implementation			
Description of the Solution:	Increased underground storage and percolation of stormwater runoff through subgrade storage and percolation.]		
Is this project related to a Critical Facility?		Yes]	No [X]
(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:	100-Year storm]	Estimated Benefits (losses avoided):	Flooding relief for homeowners, reduction of hazardous conditions for traffic and pedestrians.]
Useful Life:	50 Years]		
Estimated Cost:	\$1,500,000]		
Plan for Implementation			
Prioritization:	Leave Blank	Desired Timeframe for Implementation:	5 years]
Estimated Time Required for Project Implementation:	5 Years]	Potential Funding Sources:	Village of Malverne, Capital improvement funds, Community improvement funds]
Responsible Organization:	Village of Malverne Building Department	Local Planning Mechanisms to be Used in Implementation, if any:	Village designated/hired Engineering firm]
Three Alternatives Considered (including No Action)			
Alternatives:	<i>Action</i>	<i>Estimated Cost</i>	<i>Evaluation</i>
	Add new storm sewer lines at various locations]	,\$5,000,000]	Not cost effective]
	Leave it as it is.]	\$0]	Continued damage to private and public facilities, possible future sinkholes]
	Relocate homes]	Expensive]	Not desirable by the community]
Progress Report (for plan maintenance)			
Date of Status Report:	July 2020]		
Report of Progress:	Not started]		
Update Evaluation of the Problem and/or Solution:]		

Nassau County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction: [Incorporated Village of Malverne]

NYS DHSES Action Worksheet			
Project Name:	Department of Public Works (DPW) Bucket Truck]		
Project Number:	Leave Blank		
Risk / Vulnerability			
Hazard of Concern:	Wind and Snow Storms]		
Description of the Problem:	Malverne DPW does not have a bucket truck. Malverne has many large trees and the DPW personnel are unable to access all areas of downed trees in preparation for removal. Exterior structural problems at the second story or higher at Village owned buildings cannot be investigated or assessed properly by the Building Department]		
Action or Project Intended for Implementation			
Description of the Solution:	Buy a bucket truck for the Department of Public Works. This will support the community, health & social services, and infrastructure.]		
Is this project related to a Critical Facility?		Yes []	No [X]
(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:	Wind & snow storms, 6 +/- times a year]	Estimated Benefits (losses avoided):	Safety of DPW workers, closer inspection of structural problems by the Building department]
Useful Life:	25 Years]		
Estimated Cost:	\$45,000]		
Plan for Implementation			
Prioritization:	Leave Blank	Desired Timeframe for Implementation:	3 years]
Estimated Time Required for Project Implementation:	5 years]	Potential Funding Sources:	Village of Malverne, Capital funding]
Responsible Organization:	Department of Public Works]	Local Planning Mechanisms to be Used in Implementation, if any:	Village personnel, competitive bid process.]
Three Alternatives Considered (including No Action)			
Alternatives:	<i>Action</i>	<i>Estimated Cost</i>	<i>Evaluation</i>
	Use fire department ladder truck]	\$750 per use]	Not feasible because trained firemen are needed to operate the vehicle.]
	Hire outside private firm to do work]	\$1,500 per call]	Not feasible, company must be on call 24/7.]
No Action]	\$0]	Challenge remains with removing downed trees.]	
Progress Report (for plan maintenance)			
Date of Status Report:	July 2020]		
Report of Progress:	Not started]		
Update Evaluation of the Problem and/or Solution:]		