

# Village of Valley Stream Annex

This document presents the Village of Valley Stream’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  |
|--|---|
| Jay Hunter, Deputy Village Clerk<br>Village of Valley Steam<br>123 South Central Avenue<br>Valley Stream, NY 11580<br>vsdpclrk@vsvny.org<br>516-592-5104 | Frank Roca, Emergency Management Coordinator<br>Village of Valley Steam<br>123 South Central Avenue<br>Valley Stream, NY 11580<br>vsfpb@vsvny.org<br>516-592-5147 |

## Profile

The Village of Valley Stream covers approximately 3.48 square miles<sup>1</sup> and has a total population of 37,431 according to the American Community Survey 5-year 2018 Estimates. Some of the demographics of the Village of Valley Stream 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 Valley Stream Demographic Information

| Demographic                                      | Demographic |
|--|-------------|
| Below 5 Years Old                                | 5.0%        |
| Above 65 Years Old                               | 13.7%       |
| Individuals with Disabilities                    | 6.0%        |
| Persons in Poverty                               | 4.4%        |
| Renters  | 18.6%       |
| Without a High School Diploma                    | 9.5%        |
| Without Access to Broadband Internet             | 0.0%        |
| Black or African American alone                  | 27.6%       |
| American Indian and Alaska Native alone          | 0.0%        |
| Asian alone                                      | 15.4%       |
| Native Hawaiian and other Pacific Islander alone | 0.0%        |
| Two or More Races                                | 4.6%        |
| White alone, not Hispanic or Latino, percent     | 31.0%       |
| Hispanic or Latino                               | 22.9%       |

<sup>1</sup> This is inclusive of land area only.

The Village of Valley Stream has experienced a great deal of development in past years and has multiple large projects scheduled in the future. These projects include additions to the Green Acers Commons (i.e., supermarket, restaurant, and strip mall). Additionally, multiple dwellings are being constructed throughout the Village as well as a large self-storage facility. Further, plots of land are being subdivided into single-family dwellings. In the next five years, the Village hopes to develop an outdoor mall, multiple large dwellings, and self-storage facility. Currently, there are single- and multi-family dwellings within the flood plain. The jurisdiction maintains zoning maps and planning teams. 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 Valley Stream. The jurisdiction identified Coastal Hazards, Flooding, and Hurricane as natural hazards that 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 Valley Stream include:  
**Coastal Hazards,  
 Flooding, and  
 Hurricane.**

*Table 2: Village of Valley Stream Hazard Impacts*

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

| Hazard | Impact Categories         |
|--------|---------------------------|
| Wind   | Community, Infrastructure |

## Capability Assessment

This section summarizes the capabilities that the Village of Valley Stream 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 Valley Stream. The Valley Stream maintains several key administrative and technical capabilities to support mitigation, including building codes, capital improvement plans, community development plans, floodplain management plans, NFIP floodplain damage prevention ordinances, site plan review requirements, 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 Valley Stream Existing Legal and Regulatory Capabilities*

| Regulatory Tool                           | Yes / No | Citation (if applicable)   |
|---|----------|--|
| Access and Functional Needs Plan          | No       |  |
| Building Code                             | Yes      | 2020 NYS Fire & Building Code - Valley Stream General Code and Local zoning code |
| Capital Improvement Plan                  | Yes      | Road & Culvert repair  |
| Climate Action Plan                       | No       |  |
| Community Development Plan                | Yes      | CA Zone which permits Multiple Dwellings to be built in commercially zoned areas |
| Comprehensive Plan / Master Plan          | No       |  |
| Economic Development Plan(s)              | No       |  |
| Emergency Response Plan(s)                | No       |  |
| Floodplain Management Plan(s)             | Yes      | Chapter 34 of the Village Code   |
| Growth Management Plan(s)                 | No       |  |
| NFIP Flood Damage Prevention Ordinance(s) | Yes      | Chapter 34 of the Village Code   |
| Open Space Plan(s)                        | No       |  |
| Post Disaster Recovery Ordinance(s)       | No       |  |

| Regulatory Tool                     | Yes / No | Citation (if applicable)   |
|-------------------------------------|----------|--|
| Post Disaster Recovery Plan(s)      | No       |  |
| Real Estate Disclosure Requirements | No       |  |
| Resilience Plan(s)                  | No       |  |
| Site Plan Review Requirement(s)     | Yes      | NYS Building Code and Valley Stream General Code and local zoning code |
| Small Area Development Plan(s)      | No       |  |
| Special Purpose Ordinance(s)        | No       |  |
| Stormwater Management Plan(s)       | Yes      | Chapter 76 of the Village Code   |
| Subdivision Ordinance(s)            | Yes      | Chapter 99 of Village Zoning Code                                      |
| Transportation Plan(s)              | No       |  |
| Zoning Ordinance(s)                 | Yes      | Valley Stream General Code and Zoning Code                             |

## Administrative and Technical Capability Assessment

Table 4 lists the assessment of existing administrative and technical tools for the Village of Valley Stream. The Village of Valley Stream's primary administrative and technical capabilities include an emergency manager, a NFIP floodplain administration, construction practices personnel, and natural hazards and land development planners. The Village can bolster their capabilities in this category by identifying individuals with expertise in engineering and analysis.

Table 4: Village of Valley Stream Existing Staff / Personnel Resource

| Staff / Personnel Resource  | Yes / No | Details  |
|---|----------|--|
| Emergency Manager(s)  | Yes      | Emergency Manager - Emergency Management Coordinator |
| Engineer(s) trained in construction practices related to buildings/infrastructure | No       |  |
| 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      | Village Building Inspectors                          |
| Planner(s) with an understanding of natural hazards                               | Yes      | Village Building Inspectors                          |

| Staff / Personnel Resource  | Yes / No | Details                            |
|---|----------|------------------------------------|
| Planner(s) with knowledge of land development and land management practices | Yes      | Department of Economic Development |
| 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 Valley Stream. 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, levying taxes for specific purposes, capital improvements project funding, and CDBG programs. Village of Valley Stream should consider explore additional fiscal capabilities in order to gain access to additional funding for mitigation.

*Table 5: Village of Valley Stream 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                 | Yes      | Anticipation notes       |
| Authority to levy taxes for specific purposes                   | Yes      | Library Fund             |
| Authority to utilize user fees for utility services             | No       |                          |
| Authority to withhold public expenditures in hazard prone areas | No       |                          |
| Capital improvements project funding                            | Yes      | Road & Culvert repair    |
| Community Development Block Grants (CDBG)                       | Yes      | Nassau County Consortium |
| 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 Valley Stream. 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 Valley Stream Community Classifications

| Classification                                       | Yes/No (or Status) |
|--|--------------------|
| Building Code Effectiveness Grading Schedule (BCEGS) | Updating           |
| 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 Valley Stream and how the jurisdiction is meeting the requirements of the National Flood Insurance Program (NFIP). Flood-prone areas in the Village include stormwater streams and ponds, AE zones designated on FEMA flood insurance rate maps, regulatory floodways, and other areas of flood hazard.

The Village's Engineer is responsible for floodplain management. FEMA Floodplain Management Training will further support the growth of the floodplain management program. All structures in special flood hazard areas within the Village of Valley Stream are required to secure a floodplain permit before any new construction, renovations, or repair work is permitted, whether due to flooding or any other type of damage. 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.

After flood events, substantial damage determinations are made in accordance with provisions listed in Village Code Chapter 34 and current adopted NYS Uniform Fire Prevention and Building Code.

The Village of Valley Stream is in good standing with the NFIP. Based on documentation received from NYSDEC, the Village had its last Community Assistance Contact on 05/20/2013 and its last Community Assistance Visit on 10/19/2011. There are no NFIP compliance violations that need to be addressed in this jurisdiction.

All structures in special flood hazard areas within the Village of Valley Stream are required to secure a floodplain permit before any new construction, renovations, or repair work whether due to flooding or any other type of damage, is permitted. The Flood Damage Prevention Ordinance for the Village of Valley Stream meets minimum requirements. The ordinance was last amended 08/17/2009 and can be referenced in Chapter 34 of Village Code.

## Mitigation Strategy

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

### Previous Mitigation Actions

|                                     |  |
|-------------------------------------|--|
| <b>Action</b>                       | A permanent natural gas generator will be installed at 70 McKeon Ave. Valley Stream, NY 11580. It will have sufficient capacity to allow the facility to maintain all necessary patient needs. |
| <b>Risk Category</b>                | Loss of Electric Power   |
| <b>Project Status</b>               | Completed  |
| <b>Project Status Description</b>   | In HMGP Grant Process  |
| <b>Carried Forward to 2020 Plan</b> | No   |
| <b>Required Changes</b>             | Officially the generator has not been signed off by the Village of Valley Stream Building Department.  |

## Proposed Mitigation Actions

| Project Number                     | VVS_1  | VVS_2  | VVS_3  | VVS_4  |
|------------------------------------|--|--|--|--|
| <b>Project Name</b>                | Generator Replacement at All Village Firehouses  | Hendrickson Park - Erosion/shoreline restoration   | Management Plan of Storm Drains, Culverts, and Streams   | Mill Pond - Erosion/shoreline restoration  |
| <b>Goal being met</b>              | 2,3  | 1,5  | 1  | 1,5  |
| <b>Hazards to be mitigated</b>     | Hurricanes, high wind events, nor'easters, severe winter weather   | Erosion & Flooding   | Flooding   | Erosion & Flooding   |
| <b>Description of the Problem</b>  | The generators in all the firehouses are at least 30 years old. Firehouses are a critical facility that provide lifesaving services to the village, in addition to providing a safe place for village residents to go in a time of disaster. Power outages threaten the capacity of these firehouses to continue to provide services in a time of emergency. | Overtime the stream erodes the shoreline and flooding begins to affect the upstream facilities | During heavy rainstorms, catch basins, culverts, and sewers become backed up due to debris. Small streams overflow their banks flooding some areas.  | Overtime the stream erodes the shoreline and flooding begins to affect the upstream facilities |
| <b>Description of the Solution</b> | The Village is going to replace and upgrade all generators at Firehouses. These upgrades will increase our capacity to power the entire facility in times of disaster when the power grid is damaged.  | Continue the erosion control program   | The maintenance plan will include regular clearing and cleaning of basins, erosion management, partnering with Nassau County to investigate opportunities to expand the capacity of the stormwater management system, and increasing culvert capacity. | Continue the erosion control program   |
| <b>Critical Facility</b>           | Yes  | Yes  | No   | Yes  |
| <b>EHP Issues</b>                  | No   | DEC permits  | Yes  | DEC permits  |
| <b>Estimated Timeline</b>          | One to two   | Two to three years   | Five years   | Two to three years   |
| <b>Lead Agency</b>                 | Village of Valley Stream Maintenance Department  | Village of Valley Stream Department of Public Works  | Village of Valley Stream Department of Public Works  | Village of Valley Stream Department of Public Works  |
| <b>Estimated Costs</b>             | 41,8000  | 100,000  | 50,000 - 1,000,000   | 75,000   |
| <b>Estimated Benefits</b>          | The increase in capacity will help the First Responders operate better due to the entire building being on back-up power instead of just a few circuits. This will also benefit the public who may utilize the building for charging electronics cooling/heating rooms and possibly storing refrigerated medicine in time of power loss                      | Could be in the Millions if bridges and roadways are washed out                                | Reducing flooding events saves damage to the infrastructure and buildings along with reducing risk to the public.  | Could be in the Millions if bridges and roadways are washed out                                |
| <b>Potential Funding Sources</b>   | Municipal Fiscal Budget  | Nassau County DPW  | Fiscal Budget  | Nassau County DPW  |





## 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 Valley Stream

| NYS DHSES Action Worksheet   |   |   |   |
|--|---|---|---|
| Project Name:  | Stormwater Management Plan of Storm Drains, Culverts, and Streams   |   |   |
| Project Number:  | Leave Blank   |   |   |
| Risk / Vulnerability   |   |   |   |
| Hazard of Concern:   | Flooding  |   |   |
| Description of the Problem:  | During heavy rainstorms, catch basins, culverts, and sewers become backed up due to debris over time. Small streams overflow their banks flooding some areas.   |   |   |
| Action or Project Intended for Implementation  |   |   |   |
| Description of the Solution:   | Through the Stormwater Management Plan, the Village Department of Public Works (DPW) will continue to perform routine maintenance of clearing and cleaning out basins. The village will also continue to engage in an erosion plan to make sure the streams and waterways flow smoothly. The village will explore opportunities to partner with Nassau County and NYS DEC to determine how the Village's stormwater runoff can be managed and improved to decrease flooding potential. Some possible solutions may include increasing catch basin sizes and expanding the capacity of the culverts. |   |   |
| 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:   | Medium  | Estimated Benefits (losses avoided):                            | Reducing flooding events saves damage to the infrastructure and buildings along with reducing risk to the public. |
| Useful Life:   | Eight to ten years  |   |   |
| Estimated Cost:  | \$50,000 up to over \$1,000,000 if culverts need to be increased  |   |   |
| Plan for Implementation  |   |   |   |
| Prioritization:  | Leave Blank   | Desired Timeframe for Implementation:                           | Immediate   |
| Estimated Time Required for Project Implementation:  | Five years  | Potential Funding Sources:                                      | Fiscal Budget   |
| Responsible Organization:  | Village of Valley Stream Department of Public Works   | Local Planning Mechanisms to be Used in Implementation, if any: |   |
| Three Alternatives Considered (including No Action)  |   |   |   |
| Alternatives:  | <i>Action</i>   | <i>Estimated Cost</i>   | <i>Evaluation</i>   |
|  | No Action   | \$0   |   |
|  | Divert water flow to different streams  | \$100,000 - \$200,000 depending on scope of project             | May not be feasible due to limited land use   |
|  | Construct some sort of Dam system to limit water flow   | \$1,000,000 - \$2,000,000                                       | Could complicate flooding up above the dam and endanger other areas   |
| Progress Report (for plan maintenance)   |   |   |   |
| Date of Status Report:   | 6/22/2020   |   |   |
| Report of Progress:  | On-going  |   |   |
| Update Evaluation of the Problem and/or Solution:  | The program has alleviated some flooding, but the system can only accommodate a certain amount of run-off at a time   |   |   |

## Nassau County Multi-Jurisdictional Hazard Mitigation Plan

**Name of Jurisdiction:** Village of Valley Stream

| NYS DHSES Action Worksheet   |  |   |  |
|--|--|---|--|
| Project Name:  | Generator Replacement at All Village Firehouses  |   |  |
| Project Number:  | Leave Blank  |   |  |
| Risk / Vulnerability   |  |   |  |
| Hazard of Concern:   | Power Loss due to Hurricanes, High Wind events, Nor'easters, Severe Weather Events and Blackouts.  |   |  |
| Description of the Problem:  | The generators in all the firehouses are at least 30 years old. Firehouses are a critical facility that provide lifesaving services to the village, in addition to providing a safe place for Village residents to go in a time of disaster. Power outages threaten the capacity of these firehouses to continue to provide services in a time of emergency. |   |  |
| Action or Project Intended for Implementation  |  |   |  |
| Description of the Solution:   | The Village is going to replace and upgrade all generators at Firehouses. These upgrades will increase our capacity to power the entire facility in times of disaster when the power grid is damaged.  |   |  |
| Is this project related to a Critical Facility?  |  | Yes   | <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.) |  | No  | <input type="checkbox"/>   |
| Level of Protection:   | Power outages  | Estimated Benefits (losses avoided):                            | The increase in capacity will help the First Responders operate better due to the entire building being on back-up power instead of just a few circuits. This will also benefit the public who may utilize the building for charging electronics cooling/heating rooms and possibly storing refrigerated medicine in time of power loss. |
| Useful Life:   | 25-30 years  |   |  |
| Estimated Cost:  | \$418,000  |   |  |
| Plan for Implementation  |  |   |  |
| Prioritization:  | Leave Blank  | Desired Timeframe for Implementation:                           | 2021   |
| Estimated Time Required for Project Implementation:  | One to two years   | Potential Funding Sources:                                      | Municipal Fiscal Budget  |
| Responsible Organization:  | Village of Valley Stream Maintenance Department  | Local Planning Mechanisms to be Used in Implementation, if any: |  |
| Three Alternatives Considered (including No Action)  |  |   |  |
| Alternatives:  | <i>Action</i>  | <i>Estimated Cost</i>   | <i>Evaluation</i>  |
|  | Could rent a full size generator or use portable units   | \$20,000-\$40,000 depending on length of outage                 | Would take time to set up in a sudden power loss or unable to obtain units   |
|  | Use solar panels system and battery storage  | \$50,000-\$150,000 depending on size and number of panels       | Could possibly work in short term but for extend operations or weather conditions might not be feasible  |
|  | No action  | \$0   | None   |
| Progress Report (for plan maintenance)   |  |   |  |
| Date of Status Report:   | 6/22/2020  |   |  |

|   |   |
|---|---|
| Report of Progress:                               | Three of the six are complete.  |
| Update Evaluation of the Problem and/or Solution: | The program has had a positive impact on the usability of the Fire houses. Apparatus doors open now on back-up power and all usable parts of the firehouse have electric, heat and A/C. |

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