# 9.30 Village of Dering Harbor

This section presents the jurisdictional annex for the Village of Dering Harbor. It includes resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions that can be implemented prior to a disaster to reduce or eliminate damage to property and people. This annex includes a general overview of the municipality and who in the Village participated in the planning process; an assessment of the Village of Dering Harbor's risk and vulnerability; the different capabilities utilized in the Village; and an action plan that will be implemented to achieve a more resilient community.

## 9.30.1 Hazard Mitigation Planning Team

The following individuals have been identified as the Village of Dering Harbor's hazard mitigation plan primary and alternate points of contact.

**Table 9.30-1. Hazard Mitigation Planning Team**

| Primary Point of Contact | Alternate Point of Contact |
|---|---|
| Name/Title: Vicki Weslek, Clerk<br>Address: 23 Locust Point Road Shelter Island Heights, NY 11965<br>Phone Number: 631-749-0020<br>Email: clerk@deringharborvillage.org | Name/Title: Karen Kelsey, Deputy Mayor<br>Address: 23 Locust Point Road Shelter Island Heights, NY 11965<br>Phone Number: 631-749-0020<br>Email: kkelsey@deringharborvillage.org |
| **NFIP Floodplain Administrator** | |
| Name/Title: George Butts III, Building Inspector<br>Address: 335 Ferry Road Sag Harbor, New York 11963<br>Phone Number: 631-725-1378 | |

## 9.30.2 Municipal Profile

Village of Dering Harbor was incorporated in 1916. It is the smallest Incorporated Village in the State of New York.

The Village of Dering Harbor is located at the northwest corner of the Town of Shelter Island; which is in between the Towns of Southold and East Hampton. The Village is residential, consisting of 33 homes. Ingress/egress from the island is only by ferry.

The Village is managed by a Mayor and four (4) Trustees.

According to the U.S. Census, the 2010 population for the Village of Dering Harbor was 11. The estimated 2017 population was 0, a 100 percent decrease from the 2010 Census. However, this number is likely due to changes in permanent population. Seasonal population remains similar to the 2010 population. Data from the 2017 U.S. Census American Community Survey indicate that 0 percent of the population is 5 years of age or younger and 0 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

## 9.30.3 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to understanding a jurisdiction's overall risk to its hazards of concern. Table 9.31-2 summarizes recent and expected future development trends, including major

residential/commercial development and major infrastructure development. The figures at the end of this annex illustrate the geographically-delineated hazard areas and the location of potential new development, where available. The recent and anticipated development depicted on these figures excludes the Suffolk County wastewater upgrades; refer to Section 4 (County Profile) for additional information on this development.

**Table 9.30-2. Recent and Expected Future Development**

| Type of Development | 2014 | | 2015 | | 2016 | | 2017 | | 2018 | | 2019 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)** | | | | | | | | | | | | |
| | Total | Within SFHA | Total | Within SFHA | Total | Within SFHA | Total | Within SFHA | Total | Within SFHA | Total | Within SFHA |
| Single Family | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Multi-Family | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other (commercial, mixed-use, etc.) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total Permits Issued** | **0** | **0** | **0** | **0** | **1** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

| Property or Development Name | Type of Development | # of Units / Structures | Location (address and/or block and lot) | Known Hazard Zone(s)* | Description / Status of Development |
|---|---|---|---|---|---|
| **Recent Major Development and Infrastructure from 2015 to Present** | | | | | |
| None identified | | | | | |
| **Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years** | | | | | |
| None anticipated | | | | | |

*SFHA Special Flood Hazard Area (1% flood event)*

** Only location-specific hazard zones or vulnerabilities identified.*

## 9.30.4 Capability Assessment

The Village of Dering Harbor performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Section 5 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. This section summarizes the following findings of the assessment:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Information on National Flood Insurance Program (NFIP) compliance.
- Classification under various community mitigation programs.
- The community's adaptive capacity for the impacts of climate change.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of this planning effort, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress in plan integration. Areas with current mitigation integration are summarized in Capability Assessment (Section 9.31.4). The Village of Dering Harbor identified specific integration activities that will be incorporated into municipal procedures are included

in the updated mitigation strategy. Appendix G provides the results of the planning/policy document review and the answers to integration survey questions.

## Planning, Legal, and Regulatory Capability

The table below summarizes the regulatory tools that are available to the Village of Dering Harbor and where hazard mitigation has been integrated.

### Table 9.30-3. Planning, Legal, and Regulatory Capability

| | Do you have this? (Yes/No) | Code Citation and Date (code chapter, name of plan, date of plan) | Authority (local, county, state, federal) | Department / Agency Responsible | State Mandated | Has this been integrated? | If no - can it be a mitigation action? |
|---|---|---|---|---|---|---|---|
| **Codes, Ordinances, & Requirements** | | | | | | | |
| Building Code | Yes | Article III-VI pg. 10-20 | Local | Building Department | Yes | Yes | - |
| Comment: | | | | | | | |
| Zoning Code | Yes | Zoning Code, Local Law No. 4 1970 | Local | Zoning Board | No | Yes | - |
| Comment: The Zoning Law was adopted in order to:<br>a. To guide the future growth and development of the village in accordance with a comprehensive plan that represents the most beneficial and convenient relationships among the areas within the village, considering the suitability of a potential for the uses and regulations applicable, having regard for existing conditions and trends both within the village and adjoining areas.<br>b. To provide adequate light, air and privacy; to secure safety from fire and other danger and to prevent overcrowding of the land and undue congestion of population.<br>c. To protect the established character and social and economic stability of the village, ensure that all development shall be orderly and beneficial, balance public and private interests, conserve land value, facilitate the adequate provision of transportation, water, sewerage and other public requirement and services by limiting (sic) development to a degree commensurate with the availability and capacity of such public facilities and services, prevent the pollution of the land, water and environment, safeguard water resources and encourage the wise use and sound management of natural resources throughout the village to preserve the beauty of the community and value of the land. | | | | | | | |
| Subdivisions | Yes | Subdivision Moratorium, Local Law No 1 of 2002 | Local | Village Board | No | Yes | - |
| Comment: The purpose and intent of this Local Law is to enact a moratorium on the subdivision of property and on applications and approvals of subdivisions in the Village of Dering Harbor in accordance with the findings and determinations of the Board of Trustees and in order to protect the well-being of the Village, its residents and property owners. | | | | | | | |
| Stormwater Management | Yes | Stormwater Management and Erosion and Sedimentation Control, Local Law No. 1 of the Year 2011 | Local | Stormwater Management Officer | Yes | Yes | - |
| Comment: The purpose of this chapter is to establish minimum storm water management requirements and controls to protect and safeguard the general health, safety, and welfare of the public residing within this jurisdiction and to address the findings of fact in § 1 hereof. This chapter seeks to meet those purposes by achieving the following objectives:<br>A. Meet the requirements of minimum measures 4 and. 5 of the SPDES General Permit for Stormwater Discharges from Municipal Separate Stormwater Sewer Systems (MS4s), Permit no. GP-0-08-002 or as amended or revised;<br>B. Require land development activities to conform to the substantive requirements of the NYS Department of Environmental Conservation State Pollutant Discharge Elimination System (SPDES) General Permit for Construction Activities GP-0-08-002or as amended or revised;<br>C. Minimize increases in storm water runoff from land development activities in order to reduce flooding, siltation, increases in stream temperature, and streambank erosion and maintain the integrity of stream channels;<br>D. Minimize increases in pollution caused by stormwater runoff from land development activities which would otherwise degrade local water quality; | | | | | | | |

| | Do you have this? (Yes/No) | Code Citation and Date (code chapter, name of plan, date of plan) | Authority (local, county, state, federal) | Department / Agency Responsible | State Mandated | Has this been integrated? If no - can it be a mitigation action? | |
|---|---|---|---|---|---|---|---|
| E. Minimize the total annual volume of storm water runoff which flows from any specific site during and following development to the maximum extent practicable; and Reduce stormwater runoff rates and volumes, soil erosion and nonpoint source pollution, wherever possible, through stormwater management practices and to ensure that these management practices are properly maintained and eliminate threats to public safety. | | | | | | | |
| Post-Disaster Recovery | No | - | - | - | No | - | - |
| Comment: | | | | | | | |
| Real Estate Disclosure | Yes | Property Condition Disclosure Act, NY Code - Article 14 §460-467 | State | NYS Department of State, Real Estate Agent | Yes | No | - |
| Comment: | | | | | | | |
| Growth Management | Yes | Article III pg. 10-11 | Local | Zoning Board | No | Yes | - |
| Comment: | | | | | | | |
| Site Plan Review | Yes | Article X pg. 37 | Local | Zoning Board | No | Yes | - |
| Comment: | | | | | | | |
| Environmental Protection | Yes | Regulations Regarding the Cutting and Clearing of Trees and Vegetation, Local Law No. 1 of the Year 2004 | Local | Village of Dering Harbor | Yes | Yes | - |
| Comment: The purpose and intent of this Local Law is to adopt regulations regarding the clearing and cutting of trees and natural vegetation in order to protect and ensure the aesthetic qualities of the character and quality of life in the Village, the environment of the Village and the aquifer and public water supply in the Village. | | | | | | | |
| Flood Damage Prevention | Yes | Regulations Regarding Floodplain Development, Local Law No. 1 of 2009 | Local | Building Inspector | Yes - BFE+2 feet for all construction in the SFHA (residential and non-residential) | Yes | - |
| Comment: The Village's Regulations Regarding Flood Plain Development were adopted in order to:<br>(1) To protect human life and health;<br>(2) To minimize expenditure of public money for costly flood control projects;<br>(3) To minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public;<br>(4) To minimize prolonged business interruptions;<br>(5) To minimize damage to public facilities and utilities such as water and gas mains, electric, telephone, sewer lines, streets and bridges located in areas of special flood hazard;<br>(8) To help maintain a stable tax base by providing for the sound use and development of areas of special flood hazard so as to minimize future flood blight areas;<br>(9) To provide that developers are notified that property is in an area of special flood hazard; and, relatively steep seaward and landward slopes immediately landward and adjacent to the beach and subject to erosion and overtopping from high tides and waves during major coastal storms. The inland limit of the primary frontal dune occurs at the point where there is a distinct change from a relatively steep slope to a relatively mild slope. | | | | | | | |
| Municipal Separate Storm Sewer System (MS4) | Yes | Regulations Prohibiting Illicit Discharges, Activities and | Local | Stormwater Management Officer | Yes | Yes | - |

| | Do you have this? (Yes/No) | Code Citation and Date (code chapter, name of plan, date of plan) | Authority (local, county, state, federal) | Department / Agency Responsible | State Mandated | Has this been integrated? If no - can it be a mitigation action? | |
|---|---|---|---|---|---|---|---|
| | | Connections to Separate Storm Sewer Systems, Local Law No. 2 of the Year 2011 | | | | | |
| Comment: The purpose of this chapter is to provide for the health, safety, and general welfare of the citizens of the Village of Dering Harbor through the regulation of non-storm water discharges to the municipal separate storm sewer system (MS4) to the maximum extent practicable as required by federal and state law. This chapter establishes methods for controlling the introduction of pollutants into the MS4 in order to comply with requirements of the SPDES General Permit for Municipal Separate Storm Sewer Systems. The objectives of this chapter are:<br>A. To meet the requirements of the SP DES General Permit for Stormwater Discharges from MS4s, Permit no. GP-0-08-002 or as amended or revised;<br>B. To regulate the contribution of pollutants to the MS4 since such systems are not designed to accept, process or discharge non-stormwater wastes;<br>C. To prohibit Illicit Connections, Activities and Discharges to the MS4;<br>D. To establish legal authority to carry out all inspection, surveillance and monitoring procedures necessary to ensure compliance with this chapter; and<br>E. To promote public awareness of the hazards involved in the improper discharge of trash, yard waste, lawn chemicals, pet waste, wastewater, grease, oil, petroleum products, cleaning products, paint products, hazardous waste, sediment and other pollutants into the MS4. | | | | | | | |
| Emergency Management | No | - | - | - | Yes | - | - |
| Comment: | | | | | | | |
| Climate Change | No | - | - | - | Yes | - | - |
| Comment: | | | | | | | |
| Disaster Recovery Ordinance | No | - | - | - | No | - | - |
| Comment: | | | | | | | |
| Disaster Reconstruction Ordinance | No | - | - | - | No | - | - |
| Comment: | | | | | | | |
| Other | No | - | - | - | No | - | - |
| Comment: | | | | | | | |
| **Planning Documents** | | | | | | | |
| Comprehensive Plan | Yes | Article I-II ph. 1-10 | Local | Administration | No | No | - |
| Comment: | | | | | | | |
| Capital Improvement Plan | No | - | - | - | No | - | - |
| Comment: Projects funded as they present themselves | | | | | | | |
| Disaster Debris Management Plan | Yes | Suffolk County Multi-Jurisdictional Debris Management Plan | County, Local | Suffolk County FRES | No | Yes | - |
| Comment: This NYS and FEMA approved comprehensive Multi-Jurisdictional Debris Management Plan was developed through the cooperative efforts of Suffolk County and each of the ten (10) Towns, working together in conjunction with partners from private, state and federal agencies. | | | | | | | |
| Floodplain or Watershed Plan | No | - | - | - | No | - | - |

| | Do you have this? (Yes/No) | Code Citation and Date (code chapter, name of plan, date of plan) | Authority (local, county, state, federal) | Department / Agency Responsible | State Mandated | Has this been integrated? If no - can it be a mitigation action? | |
|---|---|---|---|---|---|---|---|
| Comment: | | | | | | | |
| Stormwater Plan | No | - | - | - | No | - | - |
| Comment: | | | | | | | |
| Open Space Plan | No | - | - | - | Yes | - | - |
| Comment: | | | | | | | |
| Urban Water Management Plan | No | - | - | - | No | - | - |
| Comment: SCWA is responsible for water. | | | | | | | |
| Habitat Conservation Plan | Yes | Local Law I-2007 | Local | Administration | No | Yes | - |
| Comment: | | | | | | | |
| Economic Development Plan | No | - | - | - | No | - | - |
| Comment: | | | | | | | |
| Shoreline Management Plan | No | - | - | - | Yes | - | - |
| Comment: | | | | | | | |
| Community Wildfire Protection Plan | No | - | - | - | No | - | - |
| Comment: | | | | | | | |
| Forest Management Plan | No | - | - | - | No | - | - |
| Comment: | | | | | | | |
| Transportation Plan | No | - | - | - | No | - | - |
| Comment: | | | | | | | |
| Agriculture Plan | No | - | - | - | Yes | - | - |
| Comment: | | | | | | | |
| Other (this could include a climate action plan, tourism plan, business development plan, etc.) | No | - | - | - | No | - | - |
| Comment: | | | | | | | |
| **Response/Recovery Planning** | | | | | | | |
| Comprehensive Emergency Management Plan | Yes | Suffolk County Comprehensive Emergency Management Plan (2018) | Suffolk County and Associated Jurisdictions | Suffolk FRES | Yes | Yes | - |
| Comment: The County Comprehensive Emergency Management Plan (CEMP) describes the emergency obligations of County government and its capability and capacity to undertake emergency assignments or acquire those resources necessary to support its emergency mission. The Concept of Operations of the CEMP describes the management of emergencies within the National Incident Management System (NIMS) and details emergency management programmatic efforts to accommodate present standards. | | | | | | | |

| | Do you have this? (Yes/No) | Code Citation and Date (code chapter, name of plan, date of plan) | Authority (local, county, state, federal) | Department / Agency Responsible | State Mandated | Has this been integrated? If no - can it be a mitigation action? | |
|---|---|---|---|---|---|---|---|
| Strategic Recovery Planning Report | No | - | - | - | No | - | - |
| Comment: | | | | | | | |
| Threat & Hazard Identification & Risk Assessment (THIRA) | No | - | - | - | Yes | - | - |
| Comment: | | | | | | | |
| Post-Disaster Recovery Plan | No | - | - | - | No | - | - |
| Comment: | | | | | | | |
| Continuity of Operations Plan | No | - | - | - | No | - | - |
| Comment: | | | | | | | |
| Public Health Plan | No | - | - | - | No | - | - |
| Comment: | | | | | | | |
| Other | No | - | - | - | No | - | - |
| Comment: | | | | | | | |

### Table 9.30-4. Development and Permitting Capability

| Indicate if your jurisdiction implements the following | Response Yes/No; Provide further detail |
|---|---|
| Development Permits. If yes, what department? | Yes, Building Department |
| Permits are tracked by hazard area. For example, floodplain development permits. | Yes |
| Buildable land inventory<br>If yes, please describe<br>If no, please quantitatively describe the level of buildout in the jurisdiction. | Yes, the Building Department tracks the number of lots available for development |

## Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Village of Dering Harbor.

### Table 9.30-5. Administrative and Technical Capabilities

| Resources | Available? (Yes or No) | Department/ Agency/Position |
|---|---|---|
| **Administrative Capability** | | |
| Planning Board | Yes | Planning Board |
| Mitigation Planning Committee | Yes | Village Board |
| Environmental Board/Commission | Yes | Village Board |
| Open Space Board/Committee | Yes | Village Board |
| Economic Development Commission/Committee | Yes | Village Board |
| Warning Systems / Services | Yes | The Village runs a group email |

| Resources | Available? (Yes or No) | Department/ Agency/Position |
|---|---|---|
| (reverse 911, outdoor warning signals) | | |
| Maintenance programs to reduce risk | Yes | Tree trimming |
| Mutual aid agreements | Yes | County, Town of Shelter Island |
| **Technical/Staffing Capability** | | |
| Planners or engineers with knowledge of land development and land management practices | Yes | Village Engineer, by contract |
| Engineers or professionals trained in building or infrastructure construction practices | Yes | Village Engineer, by contract |
| Planners or engineers with an understanding of natural hazards | Yes | Village Engineer, by contract |
| Staff with expertise or training in benefit/cost analysis | Yes | Contracted Service if necessary |
| Professionals trained in conducting damage assessments | Yes | Contracted Service if necessary |
| Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications | Yes | Village Engineer, by contract |
| Scientist familiar with natural hazards | Yes | Contracted Service if necessary |
| NFIP Floodplain Administrator (FPA) | Yes | Code Enforcement Officer (currently Al Daniels, shared service with Village of North Haven) |
| Surveyor(s) | Yes | Contracted Service if necessary |
| Emergency Manager | Yes | Mayor |
| Grant writer(s) | Yes | Contracted Service if necessary |
| Resilience Officer | No | - |
| Other (this could include stormwater engineer, environmental specialist, etc.) | No | - |

## Fiscal Capability

The table below summarizes financial resources available to the Village of Dering Harbor.

### Table 9.30-6. Fiscal Capabilities

| Financial Resources | Accessible or Eligible to Use (Yes/No) |
|---|---|
| Community development Block Grants (CDBG, CDBG-DR) | No |
| Capital improvements project funding | Yes |
| Authority to levy taxes for specific purposes | Yes |
| User fees for water, sewer, gas or electric service | No |
| Impact fees for homebuyers or developers of new development/homes | Yes |
| Stormwater utility fee | No |
| Incur debt through general obligation bonds | Yes |
| Incur debt through special tax bonds | No |
| Incur debt through private activity bonds | No |
| Withhold public expenditures in hazard-prone areas | No |
| Other federal or state Funding Programs | Yes |
| Open Space Acquisition funding programs | No |
| Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution]) | No |

## Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Village of Dering Harbor.

### Table 9.30-7. Education and Outreach Capabilities

| Indicate if your jurisdiction has the following resources | Yes/No; Please describe |
|---|---|
| Public information officer or communications office? | Mayor and Clerk |
| Personnel skilled or trained in website development? | Yes |
| Hazard mitigation information available on your website; if yes, describe | No |
| Social media for hazard mitigation education and outreach; if yes, briefly describe. | No |
| Citizen boards or commissions that address issues related to hazard mitigation; if yes, briefly describe. | Architectural Board of Review |
| Other programs already in place that could be used to communicate hazard-related information; if yes, briefly describe. | No |
| Warning systems for hazard events; if yes, briefly describe. | Group email |
| Natural disaster/safety programs in place for schools; if yes, briefly describe. | County completes a safety program in area schools. |
| Other | No |

## Community Classifications

The table below summarizes classifications for community programs available to the Village of Dering Harbor.

### Table 9.30-8. Community Classifications

| Program | Participating? (Yes/No) | Classification (if applicable) | Date Classified (if applicable) |
|---|---|---|---|
| Community Rating System (CRS) | NP | - | - |
| Building Code Effectiveness Grading Schedule (BCEGS) | NP | - | - |
| Public Protection (ISO Fire Protection Classes 1 to 10) | NP | - | - |
| NYSDEC Climate Smart Community | NP | - | - |
| Storm Ready Certification | NP | - | - |
| Firewise Communities classification | NP | - | - |
| Other | No | - | - |

*Note:*
*N/A* *Not applicable*
*NP* *Not participating*
*-* *Unavailable*

## Adaptive Capacity

Adaptive capacity is defined as "the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences" (IPCC 2014). In other words, it describes a jurisdiction's current ability to adjust to, protect from, or withstand a hazard event. This term is often discussed in reference to climate change; however, adaptive capacity also includes an understanding of local capacity for adapting to current and future risks and changing conditions. The table below summarizes the adaptive capacity for each hazard and the jurisdiction's rating.

### Table 9.30-9. Adaptive Capacity

| Hazard | Adaptive Capacity (Capabilities) - High/Medium/Low* |
|---|---|
| Coastal Erosion | Medium |
| Cyber Security | Medium |
| Disease Outbreak | Medium |
| Drought | Medium |
| Earthquake | Medium |
| Expansive Soils | Medium |
| Extreme Temperature | Medium |
| Flood | Medium |
| Groundwater Contamination | Medium |
| Hurricane | Medium |
| Infestation and Invasive Species | Medium |
| Nor'Easter | Medium |
| Severe Storm | Medium |
| Severe Winter Storm | High |
| Shallow Groundwater | Medium |
| Wildfire | Medium |

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

The Village works with the Town of Shelter Island to determine the possible impacts of climate change upon the island. Both administrations are supportive of integrating climate change in policies or actions.

## 9.30.5 National Flood Insurance Program

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

### NFIP Floodplain Administrator (FPA)

George Butts III, Building Inspector

### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Village of Dering Harbor.

### Table 9.30-10. NFIP Summary

| Municipality | # Policies | # Claims (Losses) | Total Loss Payments | # RL Properties |
|---|---|---|---|---|
| Village of Dering Harbor | 11 | 2 | $0 | 0 |

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

### Flood Vulnerability Summary

The Village of Dering Harbor has limited properties exposed to flooding along the coastline.

### Resources

Due to the Village's small size, there is limited need for floodplain management assistance. However, Village staff are available to assist through permit review.

### Compliance History

Village of Dering Harbor joined the NFIP on August 11, 1978, and is currently an active member of the NFIP. The current effective Flood Insurance Rate Maps are dated September 25, 2009. The Village's last Community Assistance Visit (CAV) took place on August 9, 1995.

### Regulatory

Floodplain activities are guided by the Regulations Regarding Floodplain Development, Local Law No. 1 of 2009.

### Community Rating System

Due to the Village of Dering Harbor's small size, the Village does not participate in the Community Rating System program.

## 9.30.6 Integration with Other Planning Initiatives

As this HMP update is implemented, the Village of Dering Harbor will use information from the plan as the best available science and data for natural hazards. The capability assessment presented in this annex identifies codes, plans, and programs that provide opportunities for integration. The Suffolk County and local action plans developed for this HMP update actions related to plan integration, as well as progress on these actions, will be reported through the progress reporting process described in Volume I. New opportunities for integration also will be identified as part of the annual progress report.

### Existing Integration

- The Village has a Planning Board, Zoning Board of Appeals and Architectural Review Board.

### Opportunities for Future Integration

- None identified.

## 9.30.7 Evacuation, Sheltering, Temporary Housing, and Permanent Housing

Evacuation routes, sheltering measures, temporary housing, and permanent housing must all be in place and available for public awareness to protect residents, mitigate risk, and relocate residents, if necessary, to maintain post-disaster social and economic stability.

### Evacuation Routes

The Village of Dering Harbor follows State, County, and Town guidance for evacuation decisions. The Village utilizes County and State established evacuation routes.

### Sheltering

As the Village relies on the America Red Cross for sheltering. If necessary, Village Hall could be used as a staging area for those seeking shelter before being transferred to established shelters outside of the Village's boundaries.

### Temporary Housing

In the event that temporary housing is needed following a disaster event, the Village Green adjacent to Village Hall at 23 Locust Point Road could be used.

### Permanent Housing

If residents are interested in rebuilding homes or transferring their structures out of floodprone areas, the Village has one Village owned open lot and several open lots for sale by private owners.

## 9.30.8 Hazard Event History Specific to the Village of Dering Harbor

Suffolk County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5 (Risk Assessment) of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities. The Village of Dering Harbor's history of federally-declared (as presented by FEMA) and significant hazard events (as presented in NOAA-NCEI) is consistent with that of Suffolk County. Table 9.31-11 provides details regarding municipal-specific loss and damages the Village experienced during hazard events. Information provided in the table below is based on reference material or local sources. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

**Table 9.30-11. Hazard Event History**

| Dates of Event | Event Type (Disaster Declaration if applicable) | County Designated? | Summary of Event | Municipal Summary of Damages and Losses |
|---|---|---|---|---|
| February 8 – 9, 2013 | Severe Winter Storm and Snowstorm (FEMA DR-4111) | Yes | Low pressure that formed along the northern Gulf coast by the morning of Thursday, February 7, 2013 moved northeast to near Cape Hatteras by the morning of Friday, February 8, 2013. The low then rapidly intensified while moving northeast to a position east of Cape Cod by the morning of Saturday, February 9, 2013, producing very heavy snowfall and blizzard conditions across central and eastern Long Island on February 8th and 9th, and winter storm conditions across the rest of southeast New York. | Although the County was impacted, the Village of Dering Harbor did not report any damages. |
| March 14 – 15, 2017 | Severe Winter Storm and Snowstorm (FEMA DR-4322) | Yes | On Tuesday, March 14th, rapidly deepening low pressure tracked up the eastern seaboard resulting in damaging winds in Suffolk County. | The Village incurred costs for storm cleanup (contractor cost of $1,550) |

*Notes:*

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

## 9.30.9 Hazard Ranking and Jurisdiction-Specific Vulnerabilities

The hazard profiles in Section 5 (Risk Assessment) of this plan have detailed information regarding each plan participant's vulnerability to the identified hazards. The following summarizes critical facility and community lifeline flood exposure, and the hazards of greatest concern and risk to the Village of Dering Harbor. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.

A gradient of certainty was developed to summarize the confidence level regarding the input used to populate the hazard ranking. A certainty factor of high, medium or low was selected and assigned to each hazard to provide a level of transparency and create increased understanding of the data used to support the resulting ranking. The following scale was used to assign a certainty factor to each hazard:

- High—Defined scenario/event to evaluate; probability calculated; evidenced-based/quantitative assessment to estimate potential impacts through hazard modeling.
- Moderate—Defined scenario/event or only a hazard area to evaluate; estimated probability; combination of quantitative (exposure analysis, no hazard modeling) and qualitative data to estimate potential impacts.
- Low—Scenario or hazard area is undefined; there is a degree of uncertainty regarding event probability; majority of potential impacts are qualitative.

## Critical Facilities

New York Department of Environmental Conservation (DEC) Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a Special Flood Hazard Area (SFHA) unless constructed according to specific mitigation specifications, including being raised 2′ above the Base Flood Elevation (BFE). This statute is outlined at http://tinyurl.com/6-CRR-NY-502-4. While all vulnerabilities should be assessed and documented, the State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 500-year flood event, or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities and community lifelines located in the 1-percent and 0.2-percent floodplain. It also summarizes if the facility is already mitigated in compliance with NYS standards (i.e., to the 0.2-percent annual chance event or worse-case scenario), or if a new mitigation action is proposed in the plan update.

**Table 9.30-12. Potential Flood Losses to Critical Facilities**

| *Name* | *Type* | *Exposure* | | | *Complies with NYS Standards* | *Addressed by Proposed Action* |
|---|---|---|---|---|---|---|
| | | *1% Event* | | *0.2% Event* | | |
| | | *A-Zone* | *V-Zone* | | | |
| None identified at this time | | | | | | |

Source: Suffolk County 2020; FEMA 2009
Notes: x = Facility is located in the floodplain boundary. *Community Lifeline

## Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Section 5 (Risk Assessment) of the plan. The ranking process involves an assessment of the likelihood of occurrence for each hazard, along with its potential impacts on people, property, and the economy as well as community capability and changing future climate conditions. This input supports the mitigation action development to target those hazards with highest level of concern.

As discussed in Section 5.3 (Hazard Ranking), each participating jurisdiction may have differing degrees of risk exposure and vulnerability compared to Suffolk County as a whole. Therefore, each municipality ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential hazards for the Village of Dering Harbor. The Village of Dering Harbor has reviewed the county hazard risk/vulnerability risk ranking table and provided input to its individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Village of Dering Harbor indicated the following:

- The Village changed the hazard ranking of coastal erosion from medium to high due to risk along Shore Road.
- The Village changed the hazard ranking of flood from medium to high due to stormwater flooding that can occur within the Village.
- The Village agreed with the remainder of the calculated hazard rankings.

**Table 9.30-13. Hazard Ranking**

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

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

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

## Identified Issues

The municipality has identified the following vulnerabilities within their community:

- Due to the elevated location of the Village, there is little flood risk however coastal bluff erosion is considered a great risk to the coastal properties in the Village.
- The Village water system was found to be vulnerable and fragile during the last hurricane. The system supplies potable water to the 34 homes and supplies water to fire hydrants. If the power goes out a generator is needed to keep the system running. The cost of such generator has been determined to be between $25-30k. During Sandy the Shelter Island Fire Department was able to bring over a portable generator long enough to fill the water tank. The Department of Health is now requiring a generator as soon as possible. As many residents on the island only have well water in the event of a power outage our supply could help them as well as our own residents.
- The Village is in the process of installing a second well as required by the Department of Health. This was a bonded project for over $70k.

## 9.30.10 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and their prioritization.

## Past Mitigation Initiative Status

The following table indicates progress on the community's mitigation strategy identified in the 2014 HMP. Actions that are carried forward as part of this plan update are included in the updated mitigation strategy table (Table 9.31-15). Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under 'Capability Assessment' presented previously in this annex.

## Table 9.30-14. Status of Previous Mitigation Actions

| Project # | Project Name | Hazard(s) Addressed | Responsible Party | Brief Summary of the Original Problem and the Solution (Project) | Status (In Progress, Ongoing, No Progress, Complete) | Evaluation of Success (if complete) | | Next Steps<br>1. Project to be included in 2020 HMP or Discontinue<br>2. If including action in the 2020 HMP, revise/reword to be more specific (as appropriate).<br>3. If discontinue, explain why. |
|---|---|---|---|---|---|---|---|---|
| VDH-1 | Install a backup generator for the village's water well. | All Hazards | Village | | In Progress; Waiting for Board of Health to clear the project. | Cost<br>Level of Protection<br>Damages Avoided; Evidence of Success | | 1. Include in 2020 HMP<br>2.<br>3. |
| VDH-2 | Install a second well for potable water, with backup generator | All Hazards | Village | | In Progress; Hired and contracted with SCWA for future water services. Have 2 wells, and are installed | Cost<br>Level of Protection<br>Damages Avoided; Evidence of Success | | 1. Include in 2020 HMP<br>2.<br>3. |
| VDH-3<br><br>(previous VDH-3 through VDH -9) | Support and participate in county-led initiatives intended to build local and regional mitigation and risk-reduction capabilities (see Section 9.1), specifically:<br>• Mitigation Education for Natural Disasters (natural hazard awareness and personal scale risk reduction/mitigation public education and outreach program)<br>• Build Local Floodplain Management and Disaster Recovery Capabilities (enhanced floodplain management, and post-disaster assessment and recovery capabilities)<br>• Jurisdictional Knowledge of Mitigation Needs of Property Owners (improved understanding of damages and mitigation interest/activity of private property owners)<br>• Create a Multi-Jurisdictional Seismic Safety Committee in Suffolk County (build regional, county and local capabilities to manage seismic risk, both pre- and post-disaster)<br>Alignment of Mitigation Initiatives through all levels of Government (effort to build State and Federal level recognition and support of the County and local hazard mitigation planning strategies identified in this plan). | | | | | | | |
| | See above | All Hazards | Suffolk County, as supported by relevant local department leads, | | Ongoing Capability | Cost<br>Level of Protection<br>Damages Avoided; Evidence of Success | | 1. Discontinue<br>2.<br>3. Ongoing Capability |
| VDH-4<br><br>(previous VDH-1) | Assess and prioritize actions to retrofit, acquire, or relocate structures located in hazard-prone areas, and | Flood, Nor'Easter, Hurricane, Severe Storm | Town/Village | | Complete | Cost<br>Level of Protection | | 1. Discontinue<br>2.<br>3. Complete |

| Project # | Project Name | Hazard(s) Addressed | Responsible Party | Brief Summary of the Original Problem and the Solution (Project) | Status (In Progress, Ongoing, No Progress, Complete) | Evaluation of Success (if complete) | | Next Steps<br>1. Project to be included in 2020 HMP or Discontinue<br>2. If including action in the 2020 HMP, revise/reword to be more specific (as appropriate).<br>3. If discontinue, explain why. |
|---|---|---|---|---|---|---|---|---|
| | implement as funding becomes available | | | | | Damages Avoided; Evidence of Success | | |
| VDH-5<br><br>(previous VDH-2) | Work together with the County and others to bring CRS training/workshops into the community where appropriate community officials and staff will actively participate | Flood, Nor'Easter, Hurricane, Severe Storm | NFIP Floodplain Administrator | | Ongoing Capability | Cost | | 1. Discontinue<br>2.<br>3. Ongoing Capability |
| | | | | | | Level of Protection | | |
| | | | | | | Damages Avoided; Evidence of Success | | |
| VDH-6 | Work with County and PSEG (formerly LIPA) to identify roads within the municipality that are considered "critical", and to be the first priority for clearing after an event involving downed power lines. | Severe Storm; Severe Winter Storm; Hurricane; Nor'Easter | PSEG, County | | Ongoing Capability | Cost | | 1. Discontinue<br>2.<br>3. Ongoing Capability |
| | | | | | | Level of Protection | | |
| | | | | | | Damages Avoided; Evidence of Success | | |

## Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy

The Village of Dering Harbor has identified the following mitigation projects/activities that have also been completed but were not identified in the previous mitigation strategy in the 2014 HMP:

- None identified

## Proposed Hazard Mitigation Initiatives for the HMP Update

The Village of Dering Harbor participated in a mitigation action workshop in June 2020 and was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 'Selecting Appropriate Mitigation Measures for Floodprone Structures' (March 2007) and FEMA 'Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards' (January 2013).

Table 9.31-15 summarizes the comprehensive-range of specific mitigation initiatives the Village of Dering Harbor would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below to further demonstrate the wide-range of activities and mitigation measures selected.

As discussed in Section 6 (Mitigation Strategy), fourteen criteria are used to evaluate and prioritize each proposed mitigation action. A numeric factor is assigned (-1, 0, or 1) to each criterion to provide a relative indication of the opportunities and constraints of each action. A numerical sum of the input provides the basis of the prioritization of actions wherein each action is assigned a category of Low, Medium, or High to indicate an implementation hierarchy. A High priority action indicates the jurisdiction will prioritize its implementation and apply for funding, if needed, as opportunities become available during the plan period of performance. This does not prevent the jurisdiction from implementing other ranked actions; however, this provides a snapshot of implementation priority at the time of this plan update.

Table 9.31-16 provides a summary of the evaluation and prioritization for each proposed mitigation initiative. Refer to the action worksheets at the end of this annex for more details on the high-ranked hazards identified first for implementation.

## Table 9.30-15. Proposed Hazard Mitigation Initiatives

| Project Number | Project Name | Goals Met | Hazard(s) to be Mitigated | Description of Problem and Solution | Critical Facility (Yes/No) | EHP Issues | Estimated Timeline | Lead Agency | Estimated Costs | Estimated Benefits | Potential Funding Sources | Priority | Mitigation Category | CRS Category |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2020-Dering Harbor-001 | Stormwater Upgrades for Harbor Road, Menhansett Road | 1, 2 | Flood, Severe Storm | **Problem**: The Village experiences stormwater flooding on Harbor Road, Menhansett Road, and the side streets off of each.<br>**Solution**: The Village will conduct a stormwater feasibility study to determine what stormwater upgrades are possible along Harbor Road, Menhansett Road, and the side streets. The Village will then seek funding support and implement the selected cost effective stormwater upgrades. | No | None | Within 5 years | Village Administration | TBD by stormwater study | Reduction in stormwater flooding | HMGP, BRIC, Village budget | High | SIP | SP |
| 2020-Dering Harbor-002 | Backup Power for Wells | 1, 2 | All Hazards | **Problem**: The Village of Dering Harbor, working with the SCWA, is finishing installation of additional wells to provide secure drinking water for the Village. Not all of the wells have backup power established yet.<br>**Solution**: The Village of Dering Harbor and the SCWA will purchase and install backup power generators and necessary electrical components for the remaining wells. | Yes | No | Within 1 year | Village of Dering Harbor Administration, SCWA | $25,000 per generator | Continuity of water service | FEMA HMGP and PDM, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, SCWA, Municipal Budget | High | SIP | PP |
| 2020-Dering Harbor -003 | Coastal Erosion Monitoring | 1, 2, 3, 5 | Coastal Erosion, Hurricane, Nor'Easter | **Problem**: The Village has shoreline which could be exposed to coastal erosion.<br>**Solution**: The Village will participate in a county led erosion monitoring program. | No | None | Within 1 year | SCWD, Village Administration | Staff time | Identification of coastal erosion | County budget | High | NSP | NR |

*Notes:*

*Not all acronyms and abbreviations defined below are included in the table.*

*Acronyms and Abbreviations:*

| | |
|---|---|
| *CAV* | *Community Assistance Visit* |
| *CRS* | *Community Rating System* |
| *DPW* | *Department of Public Works* |
| *EHP* | *Environmental Planning and Historic Preservation* |
| *FEMA* | *Federal Emergency Management Agency* |
| *FPA* | *Floodplain Administrator* |
| *HMA* | *Hazard Mitigation Assistance* |
| *N/A* | *Not applicable* |
| *NFIP* | *National Flood Insurance Program* |
| *OEM* | *Office of Emergency Management* |

*Potential FEMA HMA Funding Sources:*

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

*Timeline:*

*The time required for completion of the project upon implementation*

*Cost:*

*The estimated cost for implementation.*

*Benefits:*

*A description of the estimated benefits, either quantitative and/or qualitative.*

*Critical Facility:*

*Yes* *Critical Facility located in 1% floodplain*

*Mitigation Category:*

- *Local Plans and Regulations (LPR) – These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.*
- *Structure and Infrastructure Project (SIP) - These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.*
- *Natural Systems Protection (NSP) – These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.*
- *Education and Awareness Programs (EAP) – These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities*

*CRS Category:*

- *Preventative Measures (PR) - Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.*
- *Property Protection (PP) - These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.*
- *Public Information (PI) - Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.*
- *Natural Resource Protection (NR) - Actions that minimize hazard loss and also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.*
- *Structural Flood Control Projects (SP) - Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.*
- *Emergency Services (ES) - Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities*

### Table 9.30-16. Summary of Prioritization of Actions

| Project Number | Project Name | Life Safety | Property Protection | Cost-Effectiveness | Technical | Political | Legal | Fiscal | Environmental | Social | Administrative | Multi-Hazard | Timeline | Agency Champion | Other Community | Total | High / Medium / Low |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2020-Dering Harbor-001 | Stormwater Upgrades for Harbor Road, Menhansett Road | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 11 | High |
| 2020-Dering Harbor-002 | Backup Power for Wells | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 13 | High |
| 2020- Dering Harbor -003 | Coastal Erosion Monitoring | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 11 | High |

*Note: Refer to Section 6, which conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).*

## 9.30.11 Proposed Mitigation Action Types

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

**Table 9.30-17. Analysis of Mitigation Actions by Hazard and Category**

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

| Hazard | FEMA | | | | CRS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | LPR | SIP | NSP | EAP | PR | PP | PI | NR | SP | ES |
| Severe Winter Storm | | 2020-Dering Harbor-002 | | | | 2020-Dering Harbor-002 | | | | |
| Shallow Groundwater | | 2020-Dering Harbor-002 | | | | 2020-Dering Harbor-002 | | | | |
| Wildfire | | 2020-Dering Harbor-002 | | | | 2020-Dering Harbor-002 | | | | |

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

## 9.30.12 Staff and Local Stakeholder Involvement in Annex Development

The Village of Dering Harbor followed the planning process described in Section 3 (Planning Process) in Volume I of this plan update. This annex was developed over the course of several months with input from many Village departments, including: the Village Clerk and Mayor. The Village Clerk represented the community on the Suffolk County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes who participated and in what capacity. Additional documentation on the municipality's planning process through Planning Partnership meetings is included in Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.30-18. Contributors to the Annex**

| Name | Title/Entity | Method of Participation |
|---|---|---|
| Rob Ferris | Volunteer | Attended plan participant meetings, provided impact data, contributed to mitigation strategy |
| Vicki Weslek | Clerk | Primary Point of Contact, attended plan participant meetings, provided impact data, contributed to mitigation strategy |
| Karen Kelsey | Deputy Mayor | Alternate Point of Contact, attended plan participant meetings, provided impact data, contributed to mitigation strategy |

## 9.30.13 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Village of Dering Harbor that illustrate the probable areas that may be impacted within the municipality. These maps are based on the best available data at the time of the preparation of this plan and are considered to be adequate for planning purposes. The maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Village of Dering Harbor has significant exposure.

## Figure 9.30-1. Village of Dering Harbor Hazard Area Extent and Location Map 1

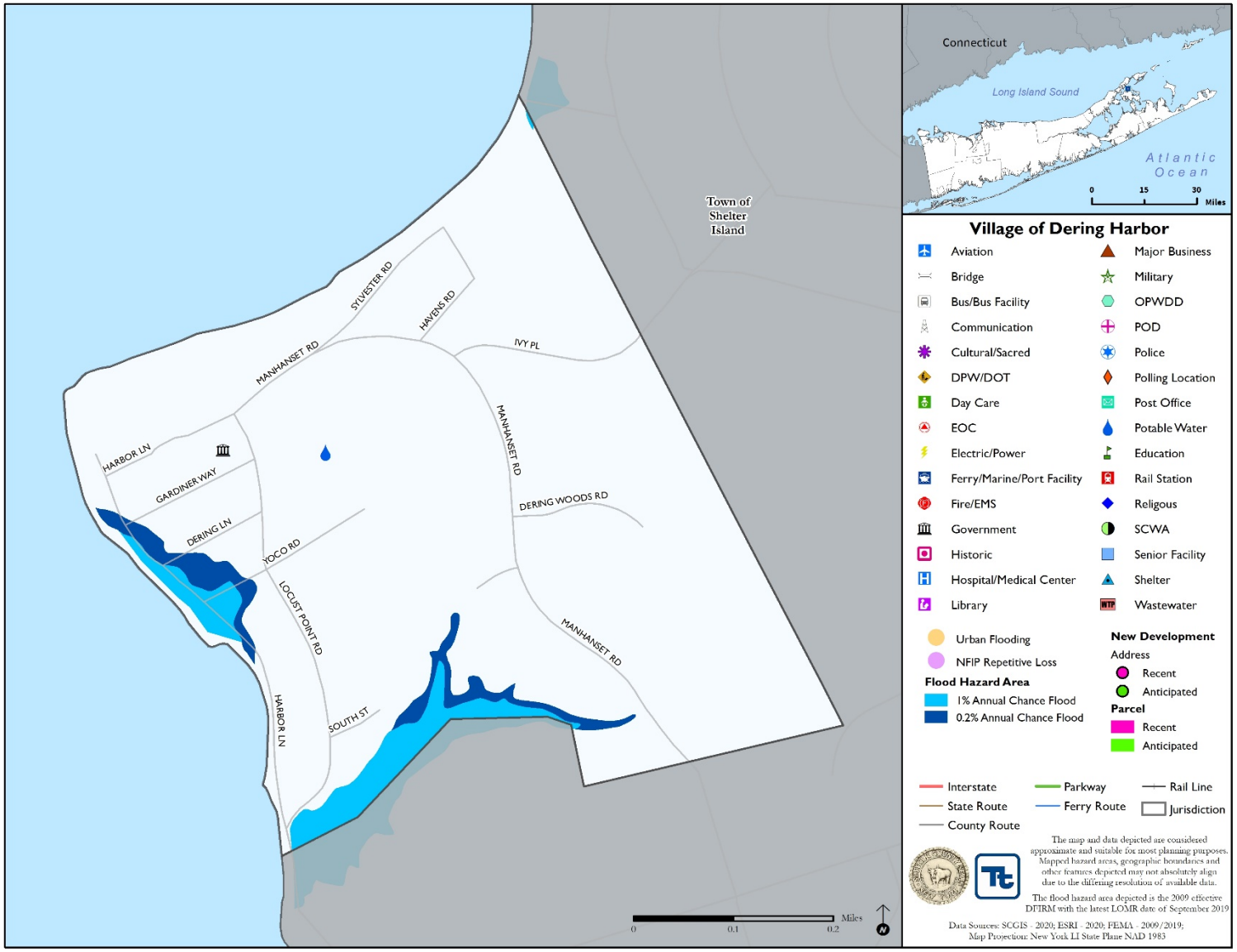


**Figure 9.30-2. Village of Dering Harbor Hazard Area Extent and Location Map 2**

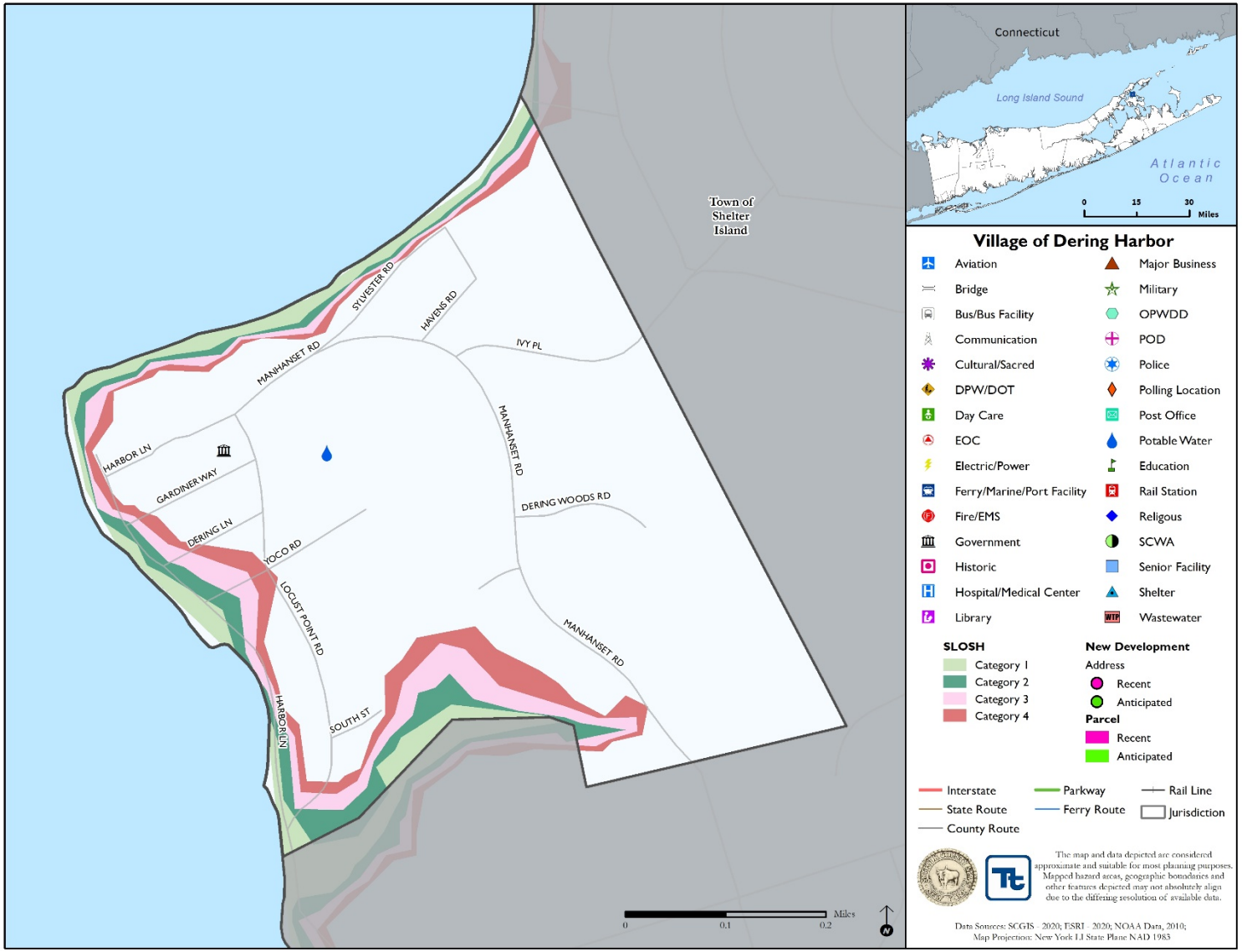
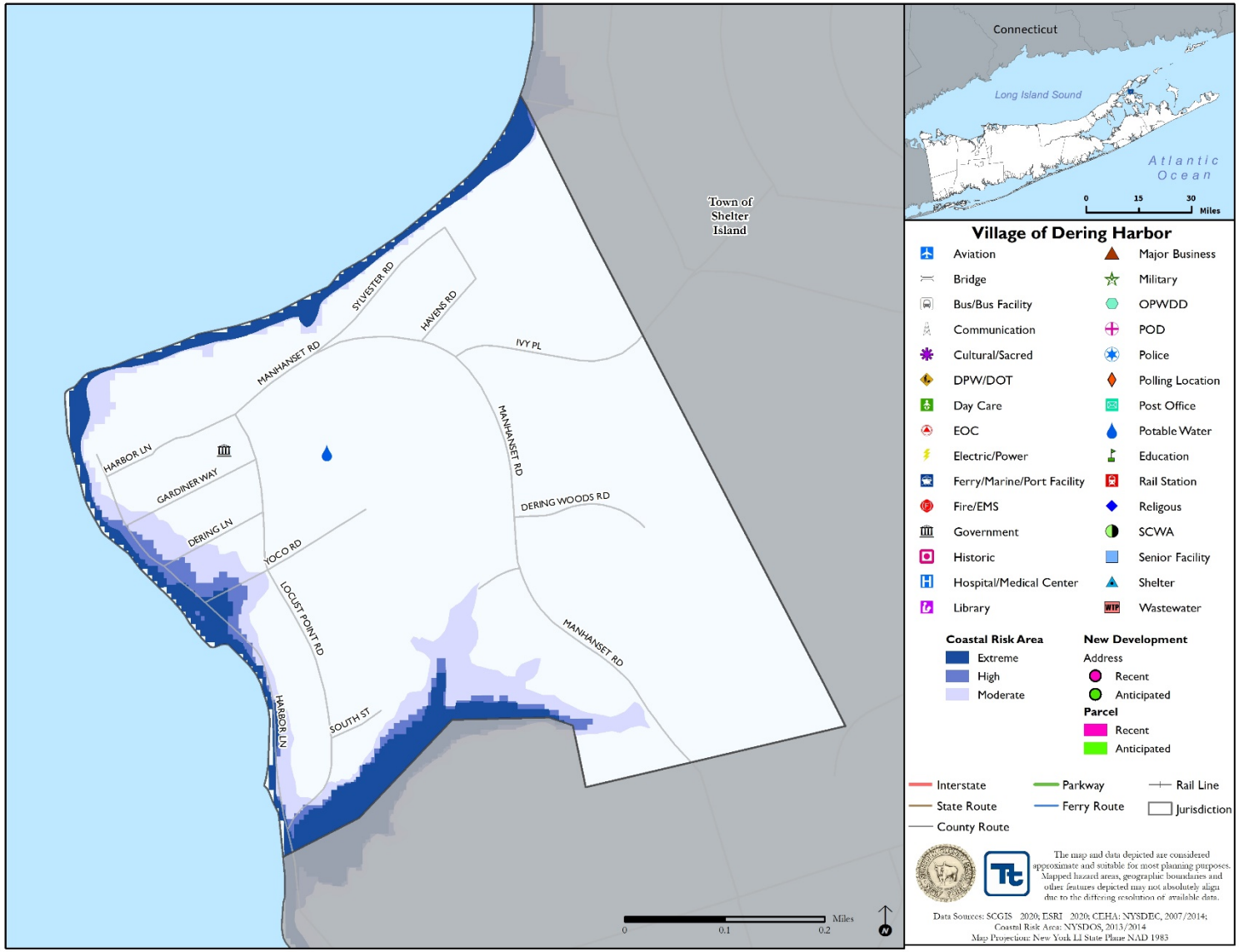
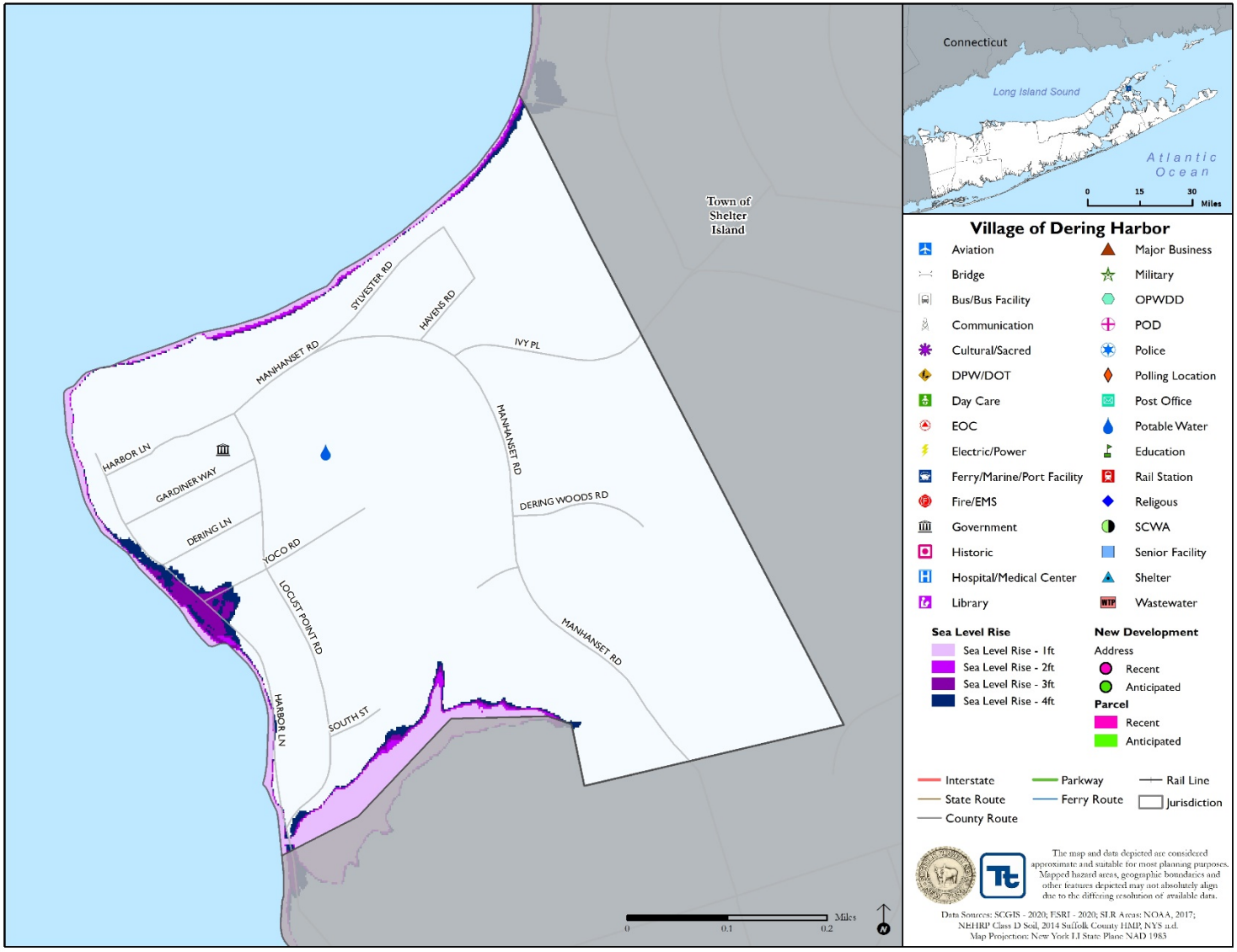


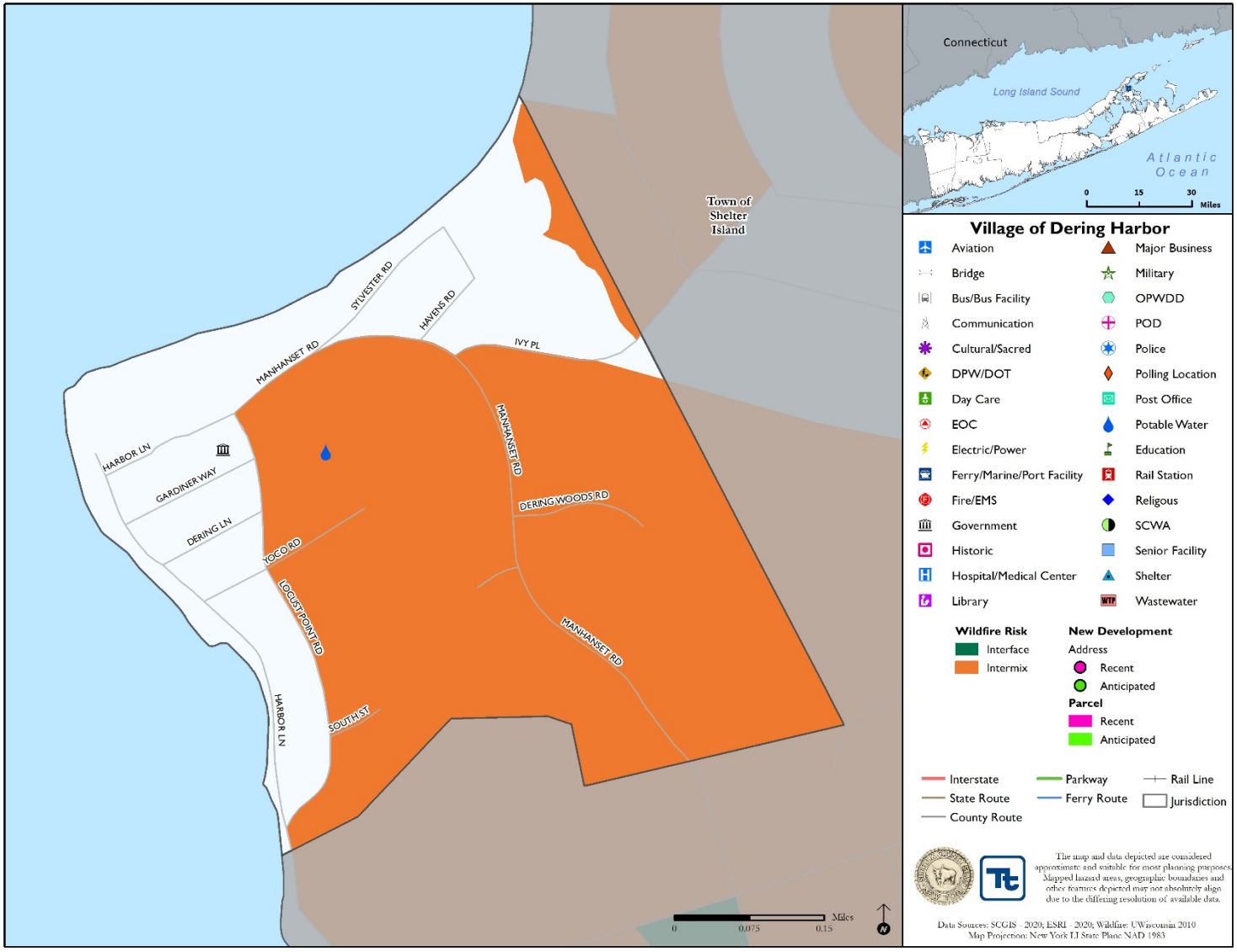
**Figure 9.30-3. Village of Dering Harbor Hazard Area Extent and Location Map 3**



## Figure 9.30-4. Village of Dering Harbor Hazard Area Extent and Location Map 4



## Figure 9.30-5. Village of Dering Harbor Hazard Area Extent and Location Map 5



| Action Worksheet | | | |
|---|---|---|---|
| **Project Name:** | Stormwater Upgrades for Harbor Road, Menhansett Road | | |
| **Project Number:** | 2020-Dering Harbor-001 | | |
| **Risk / Vulnerability** | | | |
| **Hazard(s) of Concern:** | Flood, Severe Storm | | |
| **Description of the Problem:** | The Village experiences stormwater flooding on Harbor Road, Menhansett Road, and the side streets off of each. | | |
| **Action or Project Intended for Implementation** | | | |
| **Description of the Solution:** | The Village will conduct a stormwater feasibility study to determine what stormwater upgrades are possible along Harbor Road, Menhansett Road, and the side streets. The Village will then seek funding support and implement the selected cost effective stormwater upgrades. | | |
| **Is this project related to a Critical Facility?** | Yes ☐ | No ☒ | |
| **Is this project related to a Critical Facility located within the 100-year floodplain?** | Yes ☐ | No ☒ | |
| (If yes, this project must intend to protect to the 500-year flood event or the actual worse case damage scenario, whichever is greater) | | | |
| **Level of Protection:** | TBD by selected upgrades | **Estimated Benefits (losses avoided):** | Reduction in stormwater flooding |
| **Useful Life:** | 50 years | **Goals Met:** | 1, 2 |
| **Estimated Cost:** | High | **Mitigation Action Type:** | Structure and Infrastructure Project |
| **Plan for Implementation** | | | |
| **Prioritization:** | High | **Desired Timeframe for Implementation:** | Within 5 years |
| **Estimated Time Required for Project Implementation:** | 2 years | **Potential Funding Sources:** | HMGP, BRIC, Village budget |
| **Responsible Organization:** | Village Administration | **Local Planning Mechanisms to be Used in Implementation if any:** | Hazard mitigation, Stormwater management |

| Three Alternatives Considered (including No Action) | | | |
|---|---|---|---|
| **Alternatives:** | **Action** | **Estimated Cost** | **Evaluation** |
| | No Action | $0 | Problem continues. |
| | Abandon roadways | N/A | Roadway cannot be abandoned |
| | Buyout houses impacted by flooding | $7 million | Roadway still floods |

| Progress Report (for plan maintenance) | |
|---|---|
| **Date of Status Report:** | |
| **Report of Progress:** | |
| **Update Evaluation of the Problem and/or Solution:** | |

| Evaluation and Prioritization | | |
|---|---|---|
| **Project Name:** | Stormwater Upgrades for Harbor Road, Menhansett Road | |
| **Project Number:** | 2020-Dering Harbor-001 | |
| **Criteria** | **Numeric Rank (-1, 0, 1)** | **Provide brief rationale for numeric rank when appropriate** |
| **Life Safety** | 0 | |
| **Property Protection** | 1 | Project protects roadways and properties from stormwater flooding |
| **Cost-Effectiveness** | 1 | |
| **Technical** | 1 | |
| **Political** | 1 | There is public support for the project |
| **Legal** | 1 | The Village has the legal authority to complete the project |
| **Fiscal** | 0 | Project requires funding support |
| **Environmental** | 1 | |
| **Social** | 1 | |
| **Administrative** | 1 | |
| **Multi-Hazard** | 1 | Flood, Severe Storm |
| **Timeline** | 0 | Within 5 years |
| **Agency Champion** | 1 | Village Administration |
| **Other Community Objectives** | 1 | |
| **Total** | 11 | |
| **Priority (High/Med/Low)** | High | |

| Action Worksheet | | | |
|---|---|---|---|
| **Project Name:** | Backup Power for Wells | | |
| **Project Number:** | 2020-Dering Harbor-002 | | |
| **Risk / Vulnerability** | | | |
| **Hazard(s) of Concern:** | All hazards | | |
| **Description of the Problem:** | The Village of Dering Harbor, working with the SCWA, is finishing installation of additional wells to provide secure drinking water for the Village. Not all of the wells have backup power established yet. | | |
| **Action or Project Intended for Implementation** | | | |
| **Description of the Solution:** | The Village of Dering Harbor and the SCWA will purchase and install backup power generators and necessary electrical components for the remaining wells. | | |
| **Is this project related to a Critical Facility?** | Yes ☒ | No ☐ | |
| **Is this project related to a Critical Facility located within the 100-year floodplain?** | Yes ☐ | No ☒ | |
| (If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater) | | | |
| **Level of Protection:** | N/A | **Estimated Benefits (losses avoided):** | Ensures continuity of water service |
| **Useful Life:** | 20 years | **Goals Met:** | 1, 2 |
| **Estimated Cost:** | $25,000 per generator | **Mitigation Action Type:** | Structure and Infrastructure Projects (SIP) |
| **Plan for Implementation** | | | |
| **Prioritization:** | High | **Desired Timeframe for Implementation:** | Immediately after funding received |
| **Estimated Time Required for Project Implementation:** | 1 year | **Potential Funding Sources:** | FEMA HMGP and PDM, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Municipal Budget |
| **Responsible Organization:** | Village of Dering Harbor Administration, SCWA | **Local Planning Mechanisms to be Used in Implementation if any:** | Hazard Mitigation |

| Three Alternatives Considered (including No Action) | | | |
|---|---|---|---|
| **Alternatives:** | **Action** | **Estimated Cost** | **Evaluation** |
| | No Action | $0 | Problem continues. |
| | Install solar panels | $100,000 | Weather dependent; need large amount of space for installation; expensive if repairs needed |
| | Install wind turbine | $100,000 | Weather dependent; poses a threat to wildlife; expensive repairs if needed |

| Progress Report (for plan maintenance) | |
|---|---|
| **Date of Status Report:** | |
| **Report of Progress:** | |
| **Update Evaluation of the Problem and/or Solution:** | |

| Action Worksheet | | |
|---|---|---|
| **Project Name:** | Backup Power for Wells | |
| **Project Number:** | 2020-Dering Harbor-002 | |
| **Criteria** | **Numeric Rank (-1, 0, 1)** | **Provide brief rationale for numeric rank when appropriate** |
| **Life Safety** | 1 | Project will protect critical services of wells |
| **Property Protection** | 1 | Project will protect wells from power loss. |
| **Cost-Effectiveness** | 1 | |
| **Technical** | 1 | |
| **Political** | 1 | |
| **Legal** | 1 | The Village has the legal authority to complete the project. |
| **Fiscal** | 0 | Project requires funding support. |
| **Environmental** | 1 | |
| **Social** | 1 | |
| **Administrative** | 1 | |
| **Multi-Hazard** | 1 | All hazards |
| **Timeline** | 1 | 1 year |
| **Agency Champion** | 1 | Village of Dering Harbor Administration, SCWA |
| **Other Community Objectives** | 1 | Continuity of water service |
| **Total** | 13 | |
| **Priority (High/Med/Low)** | High | |