



## 9.19 TOWN OF PENFIELD

This section presents the jurisdictional annex for the Town of Penfield.

### 9.19.1 Hazard Mitigation Plan Point of Contact

The following individuals have been identified as the hazard mitigation plan’s (HMP) primary and alternate points of contact.

Primary Point of Contact	Alternate Point of Contact
Tom Tette, Director, Building, Fire Marshal, Code Enforcement Department Safety Officer 3100 Atlantic Avenue, Penfield, New York 14526 (585) 340-8637 tette@penfield.org	Mark Valentine, Department Head 3100 Atlantic Avenue, Penfield, New York 14526 585-340-8645 valentine@penfield.org

### 9.19.2 Municipal Profile

The Town of Penfield, established in 1810, is in the eastern portion of Monroe County. A suburb of the City of Rochester, the Town is bordered by the Town of Webster to the north, Walworth (Wayne County) to the east, the Town of Fairport to the south, and the towns of Irondequoit and Brighton to the west. According to the 2010 U.S. Census, the Town of Penfield has a population of 36,242. The Town encompasses 37.5 square miles of land and 0.4 square mile of water.

Named waterbodies in the Town include Allen Creek, Irondequoit Creek, Fourmile Creek, Tufa Glen Stream, Commission Ditch, and more. Some of these waterbodies originate in the Town of Penfield and others terminate there by emptying into the southeastern end of Irondequoit Bay, also within the town.

### Growth/Development Trends

The Town of Penfield did not note any recent residential/commercial development since 2010 or any major residential, commercial, or infrastructure development planned for the next 5 years in the municipality.

### 9.19.3 Natural Hazard Event History Specific to the Municipality

Monroe County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5.0 of this plan. A summary of historical events appears in each hazard profile, and includes a chronology of events that have affected the County and its municipalities. For the purpose of this Plan update, to the extent possible, all events that have occurred in the County were summarized to indicate the range and impact of hazard events in the community. Information regarding specific damages is included, if available, based on reference material or local sources. This information appears in Table 9.19-1 below. For details of these and additional events, refer to Volume I, Section 5.0 of this Plan.

Table 9.19-1. Hazard Event History

Dates of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
October 27 – November 8, 2012	Hurricane Sandy	EM-3351	Yes	Some damage from downed trees.





### 9.19.4 Hazard Vulnerabilities and Ranking

The hazard profiles in Section 5.0 of this Plan convey detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the hazard vulnerabilities and their ranking in the Town of Penfield. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.0.

#### Hazard Risk/Vulnerability Risk Ranking

Table 9.19-2 below summarizes hazard risk/vulnerability rankings of potential hazards for the Town of Penfield. The hazards of concern for the Town are those with a High hazard ranking.

**Table 9.19-2. Hazard Risk/Vulnerability Risk Ranking**

Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard <sup>1,3</sup>	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking <sup>2</sup>
Landslide	Exposed: \$6,067,163,605	Frequent	48	High
Severe Storm	Expected Losses from Wind Alone: \$0	Frequent	48	High
Extreme Temperature	Damage Estimate Not Available	Frequent	36	High
Infestation	Damage Estimate Not Available	Frequent	36	High
Severe Winter Storm	1% Damage Loss Estimate: \$87,373,969 5% Damage Loss Estimate: \$436,869,847 10% Damage Loss Estimate: \$873,739,695	Frequent	36	High
Utility Failure	Damage Estimate Not Available	Frequent	36	High
Earthquake	100-year Mean Return Period (MRP) General Building Stock (GBS): \$504,988 500-year MRP GBS: \$9,600,010 2,500-year MRP GBS: \$107,209,283 Annualized: \$131,139	Frequent	30	Medium
Civil Unrest	Damage Estimate Not Available	Frequent	18	Medium
Flood	1% annual chance: \$74,844,795	Frequent	18	Medium
Hazardous Materials	Damage Estimate Not Available	Frequent	18	Medium
Terrorism	Damage Estimate Not Available	Frequent	18	Medium
Wildfire	Exposed Value in the Wildland-Urban Interface (WUI): \$1,627,622,730	Frequent	18	Medium
Drought	Damage Estimate Not Available	Frequent	12	Low

Notes:

- 1 Building damage ratio estimates were based on Federal Emergency Management Agency (FEMA) 386-2 (August 2001).
- 2 The valuation of general building stock and loss estimates was based on custom inventory for the municipality.  
High = Total hazard priority risk ranking score of 31 and above  
Medium = Total hazard priority risk ranking of 15-30  
Low = Total hazard risk ranking below 15
- 3 Loss estimates for the severe storm and severe winter storm hazards are structural values only, and do not include the value of contents. Loss estimates for the flood and earthquake hazards represent both structure and contents.  
The Hazards United States – Multi-Hazards (HAZUS-MH) earthquake model results are reported by Census Tract.

#### National Flood Insurance Program (NFIP) Summary

Table 9.19-3 below summarizes NFIP statistics for the Town of Penfield.





**Table 9.19-3. NFIP Summary**

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in the 1% Flood Boundary (3)
Penfield (T)	62	21	\$444,541	1	0	26

Source: FEMA Region 2 2015

Notes:

(1) Policies, claims, repetitive loss, and severe repetitive loss statistics provided by FEMA Region 2, and are current as of June 30, 2015. Total number of repetitive loss properties includes severe repetitive loss properties. Number of claims represents claims closed by June 30, 2015.

(2) Total building and content losses from the claims file provided by FEMA Region 2.

(3) Number of policies inside and outside of flood zones is based on latitude and longitude provided by FEMA Region 2 in the policy file.

FEMA noted that for a property with more than one entry, more than one policy may have been in force or more than one Geographic Information System (GIS) specification was possible.

Numbers of policies and claims, and claims total, exclude properties outside Monroe County boundary, based on provided latitude and longitude coordinates.

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### Critical Facilities

Table 9.19-4 below presents Hazards United States (HAZUS) – Multi-Hazards (MH) estimates of damage and loss of use to critical facilities in the community as a result of 1- and 0.2-percent annual chance flood events.

**Table 9.19-4. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Potential Loss from 1% Flood Event		
		1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage	Days to 100-Percent <sup>(2)</sup>
Panorama Branch PO	Post Office	X	X	9.9	64.8	-
Plank Road South Elementary School	School	X	X	9	58.3	-

Source: Monroe County; HAZUS-MH 2.2; FEMA 2015

HAZUS-MH 2.2 provides a general indication of the maximum restoration time for 100% operations. Clearly, a great deal of effort is needed to quickly restore essential facilities to full functionality; therefore, this will be an indication of the maximum downtime (HAZUS-MH 2.2 User Manual).

Some facilities may be within the Digital Flood Insurance Rate Map (DFIRM) flood hazard boundary; however, HAZUS did not calculate potential loss, perhaps because depth of flooding would not cause any damages to these structures according to the depth damage function used in HAZUS for that facility type. Further, HAZUS-MH may estimate potential damage to a facility outside the DFIRM if the model generates a depth grid beyond DFIRM boundaries.

X Facility within the DFIRM boundary

- Not calculated by HAZUS-MH 2.2

### Other Vulnerabilities Identified

The municipality has identified the following vulnerabilities within the community:

Named waterbodies in the Town include Allen Creek, Irondequoit Creek, Fourmile Creek, Tufa Glen Stream, Commission Ditch, and more. Some of these waterbodies originate in the Town of Penfield, and others terminate there by emptying into the southeastern end of Irondequoit Bay, also within the Town. Fourmile Creek, which empties directly into Lake Ontario in the Town of Webster, and Commission Ditch, a tributary to Thomas Creek and Irondequoit Creek, both originate at the same point in the Town of Penfield. Mill Creek 1





originates in the Town of Penfield near the Town of Webster border, and flows north to empty at Lake Ontario. Allen Creek, a major tributary of Irondequoit Creek, begins in the Town of Henrietta just southwest of Penfield, and flows northeasterly through Penfield to its confluence with Irondequoit Creek.

All of these waterways increase flood vulnerability in the Town.

### 9.19.5 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Community classification
- NFIP
- Integration of Mitigation Planning into Existing and Future Planning Mechanisms.

#### Planning and Regulatory Capability

Table 9.19-5 below summarizes regulatory tools available to the Town of Penfield.

**Table 9.19-5. Planning and Regulatory Tools**

Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
<b>Planning Capability</b>				
Master Plan	Yes – 2011 update	Local	Planning	Town of Penfield 2010 Comprehensive Plan, 2011
Capital Improvements Plan	No	-	-	-
Floodplain Management / Basin Plan	No	-	-	-
Stormwater Management Plan	Yes	Local	Engineering	Local laws
Open Space Plan	Yes	Local	Planning	Open Space Plan, 2001
Stream Corridor Management Plan	Yes	Local	Planning	Environmental Protection Overlay Districts (EPOD)
Watershed Management or Protection Plan	Yes	Local	Engineering	Watershed Management Committee (WMC)
Economic Development Plan	Yes	Local	Planning	Study
Comprehensive Emergency Management Plan	No	-	-	-
Emergency Response Plan	Yes			
Post-Disaster Recovery Plan	No	-	-	-
Transportation Plan	No	-	-	-
Strategic Recovery	No	-	-	-



Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Planning Report				
Other Plans:	Yes	Local	Planning	Town of Penfield Local Waterfront Revitalization Program (LWRP), 1991/2015; Town of Penfield Recreation Master Plan, 2012
<b>Regulatory Capability</b>				
Building Code	Yes	Local	Building/Planning	Building Construction Chapter 94
Zoning Ordinance	Yes	Local	Building/Planning	Zoning and Land Use Chapter 250
Subdivision Ordinance	Yes	Local	Planning	Town Code
NFIP Flood Damage Prevention Ordinance	Yes	Local	Planning/Building	Flood Damage Prevention Chapter 120
NFIP: Cumulative Substantial Damages	No	-	-	-
NFIP: Freeboard	Yes	State, Local	Building	State mandated Base Flood Elevation (BFE)+2 for single and two-family residential construction, BFE+1 for all other construction types
Growth Management Ordinances	No	-	-	-
Site Plan Review Requirements	Yes	Local	Planning/ Planning Board, Town Board	Town Code
Stormwater Management Ordinance	Yes	Local	Engineer	Stormwater Management and Erosion and Sediment Control Chapter 198
Municipal Separate Storm Sewer System (MS4)	Yes	Local	Engineer	Storm Sewers Chapter 194
Natural Hazard Ordinance	No	-	-	-
Post-Disaster Recovery Ordinance	No	-	-	-
Real Estate Disclosure Requirement	Yes	State	-	New York State (NYS) mandate, Property Condition Disclosure Act, <i>NY Code – Article 14 §460-467</i>
Other (Special Purpose Ordinances [i.e., sensitive areas, steep slope])	Yes	Local	Planning	EPOD local ordinance; Steep Slopes; Waterways Chapter 232

**Administrative and Technical Capability**

Table 9.19-6 below summarizes potential staff and personnel resources available to the Town of Penfield.





**Table 9.19-6. Administrative and Technical Capabilities**

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
<b>Administrative Capability</b>		
Planning Board	Yes	Planning
Mitigation Planning Committee	No	-
Environmental Board/Commission	Yes	Town Supervisor; Watershed Committee
Open Space Board/Committee	Yes	Planning
Economic Development Commission/Committee	No	-
Maintenance Programs to Reduce Risk	Yes	Risk Management Committee
Mutual Aid Agreements	No	-
<b>Technical/Staffing Capability</b>		
Planner(s) or engineer(s) with knowledge of land development and land management practices	Yes	Director of Planning and Engineering – Town Planner works with Engineering Department to review development applications, facilitating the Board review process.
Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	Director of Planning; Town Engineer
Planners or engineers with an understanding of natural hazards	Yes	NFIP Floodplain Administrator (FPA); Director of Planning and Engineering – Planning Board reviews plans and impacts on EPODs to provide feedback to applicants.
NFIP FPA	Yes	Building Inspector
Surveyor(s)	No	-
Personnel skilled or trained in GIS and/or HAZUS-MH applications	Yes	Planning – GIS mapping identifies EPOD areas
Scientist familiar with natural hazards	No	-
Emergency Manager	No	-
Grant writer(s)	Yes	Staff and Consultants
Staff with expertise or training in benefit/cost analysis	Yes	Staff
Professionals trained in conducting damage assessments	No	-

**Fiscal Capability**

Table 9.19-7 below summarizes financial resources available to the Town of Penfield.

**Table 9.19-7. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use (Yes/No)
Community Development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvements project funding	No
Authority to levy taxes for specific purposes	No
User fees for water, sewer, gas, or electric service	Yes
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	Yes





Financial Resources	Accessible or Eligible to Use (Yes/No)
Incur debt through general obligation bonds	No
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	No
Open space acquisition funding programs	No
Other	No

### Community Classifications

Table 9.19-8 below summarizes classifications of community programs available to the Town of Penfield.

**Table 9.19-8. Community Classifications**

Program	Do you have this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (Insurance Services Office [ISO] Fire Protection Classes 1 to 10)	No	-	-
Storm Ready	Yes	StormReady County	-
Firewise	No	-	-
Disaster/safety programs in/for Schools	No	-	-
Organizations with mitigation focus (advocacy group, non-government)	No	-	-
Public education program/outreach (through website, social media)	No	-	-
Public-private partnerships	No	-	-

The classifications listed above relate to the community’s ability to provide effective services to lessen its vulnerability to the hazards identified. These classifications can be viewed as a gauge of the community’s capabilities in all phases of emergency management (preparedness, response, recovery, and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. The Community Rating System (CRS) class applies to flood insurance, while the Building Code Effectiveness Grading Schedule (BCEGS) and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10, with class 1 being the best possible classification, and class 10 representing no classification benefit. Firewise classification is higher if the subject property is more than 1000 feet from a creditable fire hydrant and is within 5 road miles of a recognized Fire Station.

Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual
- The Building Code Effectiveness Grading Schedule
- The International Organization for Standardization (ISO) Mitigation online Public Protection website at <https://www.isomitigation.com/ppc/>
- The National Weather Service Storm Ready website at <http://www.stormready.noaa.gov/index.html>





- The National Firewise Communities website at <http://firewise.org/>

### Self-Assessment of Capability

Table 9.19-9 below provides an approximate measure of the Town of Penfield’s capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.

**Table 9.19-9. Self-Assessment Capability for the Municipality**

Area	Degree of Hazard Mitigation Capability		
	Limited (If limited, what are your obstacles?)*	Moderate	High
Planning and Regulatory Capability			X
Administrative and Technical Capability			X
Fiscal Capability		X	
Community Political Capability		X	
Community Resiliency Capability		X	
Capability to Integrate Mitigation into Municipal Processes and Activities.			X

### National Flood Insurance Program

#### NFIP Floodplain Administrator (FPA)

Building and Zoning Administrator

#### Flood Vulnerability Summary

The municipality does not maintain lists/inventories of properties that have undergone flood damage from past events; nor does it make substantial damage estimates. The Town is unaware of any structures damaged by past significant storm events, and of any constituents interested in mitigation (elevation or acquisition). The Town does not believe that any constituents are currently in the process of mitigation.

#### Resources

The Town FPA is the sole individual assuming the responsibilities of floodplain administration. The Town FPA performs plan review, inspection, damage assessment, GIS, and record keeping. The FPA provides FEMA flood map information brochures to the community as education regarding flood hazards/risk, flood risk reduction through NFIP insurance, and mitigation.

The Town FPA does not encounter any barriers to running an effective floodplain management program in the Town of Penfield, and feels that he is adequately supported and trained to fulfill the responsibilities of municipal FPA, although he has not received any formal training from the Federal Emergency Management Agency (FEMA). The Town FPA expressed interest in attending continuing education and/or certification training on floodplain management if offered in the County for all local FPAs.

#### Compliance History

As of June 30, 2015, 62 policies were in force in the Town of Penfield, 26 of which were within the 1% flood boundary. One repetitive loss property and no severe repetitive loss properties are in the Town. Between 1978 and June 30, 21 claims have been paid within the Town totaling \$444,541. According to the NFIP Policy







Statistics report available at the time of this Plan, policies in the Town of Penfield insure roughly \$12.8 million of property with total annual insurance premiums of \$143,623.

The FPA reports that the community is in good standing in the NFIP, with no outstanding NFIP compliance issues in the community. The FPA is unaware of when the most recent Community Assistance Visit (CAV) occurred.

### **Regulatory**

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The Town's Flood Damage Prevention Ordinance (FDPO) was adopted in July, 2008, last revised in June 2015, and appears in Chapter 120 of the local code. Floodplain management regulations and ordinances meet FEMA and New York State (NYS) minimum requirements, and do not exceed these requirements.

Other local ordinances, plans, and programs support floodplain management and meet NFIP requirements in the Town of Penfield.

### **Community Rating System**

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The Town of Penfield does not participate in the Community Rating System (CRS) program, but has considered joining, and the Town FPA would be happy to attend an informative seminar if offered.

### **Other Capabilities Identified**

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Previous actions that are now ongoing programs and capabilities are described below. Refer to Table 9.19-10 presented later in this annex.

- The Town of Penfield Department of Public Works (DPW) has the following capabilities integrated into its normal operations:
  - Maintains public infrastructure
  - “Disaster-proofs” public facilities
  - Implements an annual “Waterway/Drainage Maintenance” program
  - Implements an annual de-silting program in the Town of Penfield, to increase storage capacity for stormwater detention and retention ponds
  - Develops DPW / Department of Transportation (DOT) plans for debris clearance, removal, and disposal.
- The Town of Penfield Building Department has the following capabilities integrated into its normal operations:
  - Establishes an active Recruitment and Retention (of providers) program
  - Identifies “special hazard” areas
  - Enforces Building Code as required for existing and new infrastructure
  - Complies with applicable federal and state regulations
  - Promotes understanding and use of (telephone number) 811, “Call before You Dig”
  - Reviews emergency plans for public facilities to ensure that appropriate measures are considered and referenced.
- The Town Engineer and Building Department provide comprehensive inspection services.
- The Town DPW and Building Department solicit “Mutual Aid” agreements.
- The Town of Penfield Office of Code Enforcement has the following capabilities integrated into its normal operations:
  - Enacts local laws that require property owners to demolish and remove unsafe structures from their property(ies)
  - Enforces government permit processes.



- The Town of Penfield Engineering Department has the following capabilities integrated into its normal operations:
  - Enacts local laws to restrict development on steep slopes, and to require property owners and/or mine operators to rehabilitate open mines at closing
  - Implements an “Annual, Tree/Stream Maintenance Program”
  - Conducts local projects with the U.S. Army Corps of Engineers (USACE) “Risk Management Program,” including levy inspection, safety analysis, and maintenance requirements (SEMO Region V meeting, 7.29.08)
  - Implements mitigation measures for Irondequoit Creek, as identified by USACE’s 2003 proposal, and as agreed by local parties
  - Implements municipal mitigation measures identified by U.S. Geological Survey (USGS) modeling, proposed by the Storm Water Coalition and agreed by local parties.
- The Town of Penfield Floodplain Manager administers a Floodplain Management program.
- According to the Town of Penfield, the Monroe County Fire Department is developing a Special Operations Unit for Confined Space Rescue, Low and High-Angle Rescue, Water Rescue, and Trench Rescue.
  - Penfield Community TV, on local cable channels 12 and 15, has expanded information available on its website, and capability to provide more public outreach during an emergency.
- The Penfield Volunteer Fire Department (PVFD) has the following capabilities integrated into its normal operations:
  - Develops and schedules an annual campaign for Fire Prevention at schools, community functions, and public facilities using its interactive displays
  - Encourages residential use of smoke detectors through public education and “give away” programs
  - Develops and schedules an annual campaign for Fire Prevention using its mobile Fire Safety Trailer and a portable interactive kiosk at schools, community functions, and public facilities.
- The Penfield Volunteer Ambulance (PVA) provides Emergency Medical Services to the community, and is the first responder agency to all medical emergencies in our community.
- The Town of Penfield Planning Board maintains urban forests.
- The Town Supervisor solicits inter-municipal and interagency cooperation.
- The Town Clerk conducts regular reviews of local laws

### **Integration of Hazard Mitigation into Existing and Future Planning Mechanisms**

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, each community was surveyed to obtain a better understanding of the community’s progress in plan integration. A summary appears below. In addition, the community identified specific integration activities to be incorporated into municipal procedures.

#### **Planning**

**Land Use Planning:** The Town of Penfield has a Planning Board and Zoning Board of Appeals that review all applications for development and consider natural hazard risk areas in their review. Many development activities require additional levels of environmental review, specifically NYS State Environment Quality Review (SEQR) and Federal National Environmental Protection Act (NEPA) requirements.

**Watershed Management:** The Watershed Management Committee (WMC) in the Town oversees continued functioning and maintenance of watercourses within town limits. The WMC offers appropriate recommendations to the Town Board for updates to watershed studies and drainage needs. It also assists the



Engineering Department in site walks of drainage courses and in documentation of obstructions, excessive erosion areas, and deterioration of watercourses.

**Thousand Acre Swamp:** The Town established a Thousand Acre Swamp Preservation Committee to ensure that the Thousand Acre Swamp continues to serve residents as an educational, recreational, and environmental asset. The swamp is one of Monroe County's largest wetland systems. It acts as a buffer against flooding and purifies groundwater and surface water. It serves as the headwaters of Hipp Brook, which drains into Irondequoit Bay, and of Four Mile Creek, which drains into Lake Ontario.

**Town of Penfield 2010 Comprehensive Plan, 2011:** The Town of Penfield has a long history of planning, and it has been developing comprehensive/master plans since 1966. Its most recent version was published in 2011 and includes identification of natural hazard risk areas (e.g., wetlands and floodplains), as well as land use and zoning recommendations for managing risks and directing growth. Some of the recommendations included the following:

1. Inventory and map steep slopes and woodlands, and revise the ordinance as required.
2. Promote awareness about role and importance of steep slopes and woodlands.
3. Ensure compliance with federal, state, and local stormwater regulations.
4. Inventory and map all watercourses, and revise the ordinance as required.
5. Educate stakeholders on hazards, regulations, and resources for property within floodplains and floodways.
6. Plan, remediate, and redevelop brownfield sites utilizing state and federal programs such as the Brownfield Opportunity Areas Program.

The Town of Penfield 2010 Comprehensive Plan does not explicitly refer to a local or county-wide HMP.

**Open Space Plan, 2001:** The Town of Penfield recognized that it needed to maintain its open spaces to preserve those features that make the Town a unique and desirable community for residents. The plan works to preserve natural and farmed lands. As a result of this plan, the Town has Purchase of Development Rights on 18 parcels. This plan includes recommendations to help the Town make appropriate land use planning decisions, including for protection of natural resources against hazards. Relevant goals pertaining to hazard mitigation include:

1. Promote land use development patterns that respect environmentally sensitive areas.
2. Enhance, preserve, and protect overall functions and benefits of wetlands, including the role of wetlands in treatment and management of stormwater runoff throughout the Town.
3. Preserve and protect steep slope areas in the Town by ensuring that all development is consistent and compatible with capabilities and limitations of the natural terrain, and retain the natural character of unique and significant topographic features.
4. Preserve and protect natural wooded areas in the Town for the benefits they provide as natural habitats, recreation lands, and water management areas, and for their aesthetic effects.
5. Protect the health, safety, and welfare of inhabitants of the Town from hazards due to periodic flooding, and prevent loss of property and potential loss of life in flood-prone areas.
6. Protect rate and quality of runoff, and minimize impact of development on important natural resources that support wildlife, agriculture, recreation, and aquatic habitat within an overall watershed approach.

**Route 250 Corridor Land Use Analysis, 2008:** The Towns of Penfield, Webster, Perinton, and Victor, and the Villages of Webster and Fairport participated in a study of the Route 250 corridor to investigate both transportation elements and land use trends. This plan demonstrates the Town's ability to successfully participate in regional initiatives to enhance and secure overall quality of the region. As part of this plan, the participating jurisdictions identified several environmental goals, including provision of flood storage and design of stormwater management facilities.



**Town of Penfield Local Waterfront Revitalization Program (LWRP), 1991/2015:** The Town amended its 1991 LWRP in 2015 to address changes in development, goals, and community features for the waterfronts within the Town limits. The Town's waterfront revitalization areas primarily focus on Irondequoit Bay and Irondequoit Creek. In this LWRP, the Town highlights progress in accomplishing its mission since issuance of the first plan. It also identifies ways to continue preserving natural functions of its waterways while allowing for appropriate development.

**Biological Study of Irondequoit Bay, 2002:** The New York State Department of State, the County of Monroe, the Town of Irondequoit, the Town of Penfield, and the Town of Webster were all identified as beneficiaries of this plan, which focuses on scientific data to support recommendations for land and water use in the Irondequoit Bay Harbor Management Plan. It also serves as a benchmark for future studies on development and natural resource management in the local area. The study was considered necessary because of Irondequoit Bay's role as a major ecological resource in the region.

**Town of Penfield Recreation Master Plan, 2012:** The Town of Penfield has recognized in several planning initiatives the importance of preserving open spaces, such as recreational areas and parks systems, for both community enjoyment and natural systems protection. In 2012, the Town developed a Recreation Master Plan to act as an attainable and realistic instrument to guide recreation and wellness goals in the Town over the ensuing 5 years. Part of this process includes maintaining inventories for both parks and programs.

### Regulatory and Enforcement

The Town of Penfield has recently updated its Town Code. Regulations and enforcement guidelines supported by the Town accord with the final draft of the Code, which was reviewed during a public hearing in September 2015 and approved later in the year.

**Building Construction Chapter 94:** The building codes are strictly enforced to prepare new and renovated buildings as well as possible for hazard-related incidents. The Town complies with New York State Uniform Fire Prevention and Building Code (the Uniform Code) and the State Energy Conservation Construction Code (the Energy Code). Pertinent aspects of the building code include requiring underground installation of all new electric.

**Flood Damage Prevention Chapter 120:** This article promotes public health, safety, and general welfare of residents, and seeks to minimize public and private losses due to flood conditions and erosion. The chapter regulates development to promote flood-resistant structures, and controls alteration of floodplains to prevent increased vulnerability.

**Storm Sewers Chapter 194:** The Town promotes health and safety of its residents by protecting and enhancing the water quality of its waterways, consistent with the Federal Clean Water Act. Under this determination, the Town seeks to reduce the following: pollutants in stormwater discharge, non-stormwater discharges to the storm drain system, and stormwater discharges to sanitary sewers.

**Stormwater Management and Erosion and Sediment Control Chapter 198:** The Town's stormwater management chapter seeks to mediate adverse impacts of stormwater runoff rates, sediment transport, and erosion caused by existing drainage systems. It also serves to control degradation of water quality in the Town. Under the ordinance, all new developments must reduce their discharge flow rate by 20% below existing conditions.

**Waterways Chapter 232:** The Town of Penfield has developed and incorporated policies consistent with its LWRP so that the Town can most effectively and efficiently preserve, enhance, and utilize the unique



waterfront area within its boundaries. This most specifically applies to management of Irondequoit Bay Harbor.

**Zoning and Land Use Chapter 250:** The Town of Penfield zoning code includes districts and standards pertaining to mitigation of hazards. The district of most note for hazard mitigation is the EPOD. The EPOD district is further divided into environmental areas of concern (wetland protection, steep slope protection, woodland protection, floodplain protection, and watercourse protection). These and other zones are referenced in all Planning Board Approval Resolutions.

### Fiscal

**Operating Budget:** The Town’s operating budget includes minimal provisions for expected repairs like snow removal and infrastructure repair after a storm or natural disaster. The Town also funds community development and special districts, including the drainage district and sewers.

**Capital Projects:** The Department of Public Works has identified several projects to enhance Town resiliency and overall capability. These include the following:

- Baird Road Reconstruction
- Oil and Stone Projects (surface treatments and oil and stone applications)
- Sanitary Sewer Extension 52 Collingsworth Drive
- Sanitary Sewer Extension
- 19 Forcemain (Penfield/Perinton town line)
- Sanitary Sewer Parkview Drive/White Village Drive.

The Town also supports appropriate state and county projects, such as the New York Department of Transportation (DOT) Route 441 Project, the County’s Jackson Road Paving Project, Monroe County Water Authority Projects, and more.

### Education and Outreach

As able and to meet all professional requirements, Town of Penfield staff attend trainings and classes sponsored by Monroe County Department of Planning and Development, Monroe County Office of Emergency Management, or by state and federal agencies. Town emergency responders also have the option to attend courses at the Monroe County Public Safety Training Facility.

The Town of Penfield can also provide information and alerts to residents through a variety of media. The Town maintains several social media sites, including:

- Facebook
  - Town of Penfield: <https://www.facebook.com/pages/Town-of-Penfield-New-York/256453921013?ref=ts>
  - Penfield Television: <https://www.facebook.com/PenfieldTV.org>
- Google+
  - Town of Penfield: <https://plus.google.com/u/0/+townofpenfield/posts>
  - Penfield Television: <https://plus.google.com/u/0/117617353906981278048/posts>
- Twitter
  - Town of Penfield: <http://www.twitter.com/TownOfPenfield>
  - Penfield Television: <http://www.twitter.com/PenfieldTV>
- Livestreaming (Penfield Television Only)
  - YouTube: <https://www.youtube.com/user/PenfieldTV?feature=mhum>



- Live Web Stream: [http://www.penfieldtv.org/Video\\_On\\_Demand.php](http://www.penfieldtv.org/Video_On_Demand.php)
- Video: <https://vimeo.com/penfieldtv/videos>
- Government Access Cable 12: [http://www.penfieldtv.org/Government\\_Access\\_Channel.php](http://www.penfieldtv.org/Government_Access_Channel.php)
- Public Access Cable 15: [http://www.penfieldtv.org/Public\\_Access\\_Channel.php](http://www.penfieldtv.org/Public_Access_Channel.php)

The Town also takes advantage of more traditional communication tools including press releases, public notices, and e-newsletters. In addition, residents can sign up for reverse 911 cell phone notifications of emergency situations through the Monroe County Emergency Communications Department.

Although the Town does not have a page on its website specifically dedicated to hazard awareness, it does provide a significant amount of resources and information to residents. On the Department of Public Works page, residents can also access a New York State Emerald Ash Borer Community Preparedness Plan Development Workbook.

The Town of Penfield also supports educational outreach and community information opportunities, such as those provided by the Thousand Acre Swamp Preservation Committee.

### **9.19.6 Mitigation Strategy and Prioritization**

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

#### **Past Mitigation Initiative Status**

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Table 9.19-10 below indicates progress on the community's mitigation strategy identified in the 2011 Plan. Previous actions that are now ongoing programs and capabilities are indicated as such in Table 9.19-10, and may also appear under "Capability Assessment" presented previously in this annex. Actions carried forward as part of this Plan update are included and prioritized in the following subsection (in Table 9.19-11).



Table 9.19-1. Past Mitigation Initiative Status

2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP or Discontinue)	Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
ES-3: Establish an active Recruitment and Retention (of providers) Program.	Building Department	In Progress	N/A	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
ES-4: Stockpile emergency supplies.	N/A	No Progress	N/A	Discontinue	Not applicable to Town.
ES-5: Solicit "Mutual Aid" agreements.	DPW; Building Department	In Progress	N/A	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
ES-6: Engage emergency service jurisdictions in local municipal government processes.	DPW	In Progress	N/A	Discontinue	County-wide
NRP-1: Ensure proper disposal of Hazardous Waste.	DPW	In Progress	N/A	Discontinue	County-wide
NRP-2: Enforce government permit processes. This may pertain to existing and/or new infrastructure.	Engineer/ Code Enforcement Officer	In Progress	N/A	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
NRP-3: Provide comprehensive inspection services. This may pertain to existing and/or new infrastructure.	Engineer/ Building Dept.	In Progress	100%	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
NRP-4: Administer a Floodplain Management Program. This may pertain to existing and/or new infrastructure.	Floodplain Administrator/ FEMA	In Progress	100%	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
NRP-5: Maintain "Urban Forests."	Planning Board	In Progress	N/A	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
PEA-3: Review Utility Service & restoration plans.	Engineer	In Progress	N/A	Discontinue	Integrated into the Town's normal operations. Moved to ongoing





2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP or Discontinue)	Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
					operational capability.
PEA-4: Identify and utilize a "Speakers Bureau."	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
PP-1: Identify "special hazard" areas.	Building Department	In Progress	N/A	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
PP-2: Maintain public infrastructure. This may pertain to existing and/or new infrastructure.	DPW	In Progress	100%	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
PP-3: Solicit inter-municipal and interagency cooperation.	Town Supervisor	In Progress	N/A	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
PP-4: Promote purchase of appropriate hazard insurance policies. This may pertain to existing and/or new infrastructure.	Building Department	Unknown	N/A	Discontinue	No longer applicable to the Town.
PP-5: Property acquisition	Town Board	In Progress	Ongoing	Include in 2017 HMP	Assess and prioritize acquisition / relocation for at risk properties within the floodplain, including those that have been identified as repetitive loss. Specifically identified are properties are to be determined.
PR-1: Enforce Building Code as required for existing and new infrastructure.	Building Department	In Progress	100%	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
PR-2: Comply with applicable federal and state regulations.	Building Department	In Progress	100%	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
PR-5: Regular review of Local Laws	Town Clerk	In Progress	N/A	Discontinue	Integrated into the Town's normal operations. Moved to ongoing







2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP or Discontinue)	Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
					operational capability.
SP-1: Disaster “proof” public facilities. This may pertain to existing and/or new infrastructure.	DPW	In Progress	N/A	Discontinue	Integrated into the Town’s normal operations. Moved to ongoing operational capability.
SP-2: Secure and provide redundant critical systems and facilities. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
SP-3: “Target Harden” facilities. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
SP-4: Expand fiber telecommunications networks.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
EPI-PR-2: Local Project. Provide HIV screening and public education (Democrat & Chronicle, 7-21-03).	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Fire-ES-1: Local Project. The Henrietta Fire District is developing a Special Operations Unit for Confined Space Rescue, Low and High-Angle Rescue, Water Rescue, and Trench Rescue.	Monroe County Fire	Unknown Progress	N/A	Discontinued	Not applicable to Town.
Fire-ES-2: Local Project. Continue to provide Emergency Medical Services to the community. The Churchville Volunteer Fire Department is the first responder agency to all medical emergencies in our	Penfield Volunteer Ambulance (PVA)	Unknown Progress	N/A	Discontinued	Not applicable to Town.



2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP or Discontinue)	Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
community.					
Fire-PEA-1: Local Project. Henrietta Fire District develops and schedules an annual campaign for Fire Prevention using its mobile Fire Safety Trailer and a portable interactive kiosk at schools, community functions, and public facilities.	Penfield Volunteer Fire Department (PVFD)	Unknown Progress	N/A	Discontinued	Not applicable to Town.
Fire-PEA-2: Local Project. Churchville Volunteer Fire Department develops and schedules an annual campaign for Fire Prevention at schools, community functions, and public facilities using its interactive displays.	Penfield Fire Department (PFD)	Unknown Progress	N/A	Discontinued	Not applicable to Town.
Fire-PP-1: Encourage residential use of smoke detectors through public education, and “give away” programs. This may pertain to existing and/or new infrastructure.	Penfield Fire Department (PFD)	Unknown Progress	N/A	Discontinued	Not applicable to Town.
Fire-SP-1: Local Project. Plan, design and develop enhanced, local facilities for on-site specialized emergency training.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
FI-ES-1: Provide Special Operations and Tactical Rescue training including water rescue training	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
FI-PEA-1: Provide information about the Erie Canal and its	N/A	No Progress	N/A	Discontinued	Not applicable to Town.



2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP or Discontinue)	Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
spillway locations					
FI-PP-1: Encourage affected property owners to purchase Flood Insurance. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
FI-PP-2: Participate in the federal Community Rating System. This may pertain to existing and/or new infrastructure.	Floodplain Manager	In Progress	N/A	Include in 2017 HMP	TPF-3: Participate in the federal Community Rating System.
FI-PP-5: Local Projects with the U.S. Army Corps of Engineers, "Risk Management Program." Levy inspection, safety analysis and maintenance requirements (SEMO Region V meeting, 7.29.08).	Town Engineer	In Progress	N/A	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
FI-PR-1: Implement an annual, "Waterway/Drainage Maintenance" Program	DPW	In Progress	N/A	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
FI-PR-5: Local Project. Implement an annual de-silting program in the Town of Penfield, to increase the storage capacity for storm water detention and retention ponds. This may pertain to existing and/or new infrastructure.	DPW	In Progress	N/A	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
FI-SP-1: Local Project. Implement mitigation measures for Irondequoit Creek, as identified by the U.S. Army	Town Engineer	In Progress	N/A	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.





2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP or Discontinue)	Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
Corps of Engineer's 2003 proposal, and as agreed by local parties. (reference – Democrat & Chronicle, 3-2-03). This may pertain to existing and/or new infrastructure.					
FI-SP-2: Local Project. Implement municipal mitigation measures identified by USGS modeling, proposed by the Storm Water Coalition and agreed by local parties. This may pertain to existing and/or new infrastructure.	Town Engineer	In Progress	N/A	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
Ice-ES-1: Develop a strategy to reduce the time it takes to clear streets (Rights-of-Way) of debris	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-ES-2: Regularly review restoration priorities	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-ES-3: Enhance utility "Town Liaison" Program	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-PEA-2: Develop alternate communications plan	PCTV/ Communications	Unknown	Ongoing	Include in 2017 HMP	TPF-4: Develop alternate communications plan.
Ice-PEA-3: Provide automated utility restoration schedule to the public	Integrated Property Systems	In Progress	N/A	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
Ice-PEA-4: Provide more public outreach during an emergency	PCTV	In Progress	N/A	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
Ice-PEA-5: Expand utility Customer Service capacity	Town Engineer	In Progress	N/A	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.





2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP or Discontinue)	Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
Ice-PEA-6: Expand information available on websites	PCTV	In Progress	N/A	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
Ice-PP-1: Encourage installation of backup power supply. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-PR-1: Implement an "Annual, Tree/Stream Maintenance Program"	Engineering/DPW	In Progress	N/A	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
Ice-PR-2: Relocate vulnerable utilities. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-PR-3: Develop DPW/DOT Plans for debris clearance, removal, and disposal	DPW	In Progress	100%	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
Ice-PR-4: Lobby state and federal officials to require permanent installation of emergency generators on-site at health care facilities and elderly housing facilities. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-SP-1: Install permanent backup power supply at public facilities. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Land-PEA-1: Local Project. Promote understanding and use of (telephone number) 811,	Building Department	In Progress	N/A	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.



2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP or Discontinue)	Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
"Call Before You Dig."					
Land-PR-1: Local Project. Enact Local Laws: to restrict development on steep slopes; to require property owners and/or mine operators to rehabilitate open mines at closing. This may pertain to existing and/or new infrastructure.	Engineering Department	In Progress	N/A	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
SC-PR-1: Local Project. Enact Local Laws that require property owners to demolish and remove unsafe structures from their property(ies). This may pertain to existing and/or new infrastructure.	Code Enforcement	In Progress	N/A	Discontinue	Integrated into the Town's normal operations. Moved to ongoing operational capability.
Terr-PP-1: Implement a strategy to "target harden" critical and public facilities. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Terr-PR-1: Provide intelligence to local authorities about legal surveillance and threat assessment activities.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Terr-PR-2: Review emergency plans for public facilities to ensure that appropriate measures are considered and referenced	Safety/ Building Department	In Progress	Ongoing	Include in 2017 HMP	TPF-5: Review emergency plans for public facilities to ensure that appropriate measures are considered and referenced
Terr-PR-3: Schools Project. Comply with Project Save regulations for plan review and revision cycles.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.



2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2017 HMP or Discontinue)	Describe Next Step 1. If including action in the 2017 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
Trans-PEA-1: Local Project. Provide traffic reports through the local broadcasters	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Trans-PEA-2: Local Project. Provide construction information and project status on sites that impact traffic	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Util-ES-1: Local Projects. Provide power back-up supply for municipal fueling stations. This may pertain to existing and/or new infrastructure.	DPW	In Progress	Ongoing	Include in 2017 HMP	TPF-6: Provide power backup supply for municipal fueling stations.
Util-PP-1: Local Utilities Project. Preserve capacity to generate local power and enhance the ability to segregate local supply from the national power grid during major failures, e.g. August 14, 2003. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
WSC-PR-1: Provide redundant back-up power supply for public supply treatment facilities and system pump stations. This may pertain to existing and/or new infrastructure.	DPW	In Progress	Ongoing	Include in 2017 HMP	TPF-7: Provide redundant backup power supply for public supply treatment facilities and system pump stations.



### **Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy**

The Town of Penfield did not identify any additional mitigation projects/activities other than those identified in the previous mitigation strategy in the 2011 Plan.

### **Proposed Hazard Mitigation Initiatives for the Plan Update**

FEMA Region II led a meeting of all Monroe County municipalities in November 2015 to discuss the purpose, goals, and long-term benefits of identifying mitigation actions to include in the updated HMP. FEMA provided handouts on creating a functionally diverse jurisdictional planning team, guidance for identifying integration actions, and guidelines for completing an action worksheet for jurisdictions to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards.

Additionally, Monroe County hosted two Annex Workshops in December 2015 to assist municipalities in completing their jurisdictional annexes, including identifying mitigation projects and developing Action Worksheets. All jurisdictions were provided with a set of sample mitigation actions that satisfied County goals of addressing all hazards and representing all six CRS categories, along with a refresher instruction sheet on how to complete an action worksheet, and an example of a completed action worksheet.

In January 2016, Monroe County jurisdictions were provided results of the municipal risk assessment to further assist with development of their mitigation strategies. Throughout the planning process, jurisdictions had access to mitigation planners who were available to assist with development of the jurisdictional annexes, including the mitigation strategy and action worksheets, as necessary.

Table 9.19-11 summarizes the comprehensive range of specific mitigation initiatives the Town of Penfield would like to pursue in the future to reduce effects of hazards. Some of these initiatives may be previous actions carried forward for this Plan update. Implementation of these initiatives will depend on available funding (grants and local match availability), and some of these initiatives may be modified or omitted at any time based on 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 Table 9.19-11 below to further demonstrate the wide range of activities and mitigation measures selected.

As discussed in Section 6, 14 evaluation/prioritization criteria are used to complete prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as High, Medium, or Low. Table 9.19-11 below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.19-12 summarizes prioritization of all proposed mitigation initiatives for the Plan update.





Table 9.19-2. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
TPF-1	Evaluate the flood vulnerability of the Panorama Branch Post Office and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.	Existing	Flood	1, 3	FPA; Engineer	High	Low	General fund (staff time)	1 year	High	SIP	PP
TPF-2	Assess and prioritize acquisition/relocation for at-risk properties within the floodplain, including those that have been identified as repetitive loss and/or severe repetitive loss.	Existing	Flood	1, 3	Town Board, Floodplain Manager	High	High	FEMA (HMGP, FMA, PDM), CDBG, NYS DHSES, County	DOF	Medium	SIP	PP
TPF-3	Participate in the federal Community Rating System.	Both	Flood	1, 4, 5	Floodplain Manager	Medium	Medium	Town Budget, County	Short-Term	High	LPR	PR
TPF-4	Develop alternate communications plan.	N/A	All Hazards	1, 2	PCTV, Fire Department, Town Board	High	Low	Town Budget, County OEM	Short-Term	High	LPR, EAP	PI
TPF-5	Review emergency plans for public facilities to ensure that appropriate measures are considered and referenced	Existing	All Hazards	1, 2	Safety/ Building Department	High	Low	Town Budget, County OEM	Short-Term	High	LPR, EAP	ES
TPF-6	Provide power backup supply for municipal fueling stations.	Existing	Utility Failure	2, 3	DPW	High	Medium	Town Budget, County OEM	Short-Term	High	SIP	PP, ES
TPF-7	Provide redundant backup power supply for public supply treatment facilities and system pump stations.	Existing	Utility Failure	2, 3	DPW	High	Medium	Town Budget, County OEM	Short-Term	High	SIP	PP, ES
TPF-8	Conduct education and outreach to residents and business owners to inform them if their properties are in known hazard areas, and actions they can take to protect their properties.	Existing	Earthquake, Extreme Temperatures, Flood, Infestation, Landslide, Severe Storms, Severe Winter Storms, Wildfire, HazMat, Utility Failure	1, 3, 4	Town Clerk	High	Low	Operating budget	OG	High	EAP	PI





**Table 9.19-2. Proposed Hazard Mitigation Initiatives**

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
TPF-9	Evaluate the flood vulnerability of the Plank Road South Elementary School and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.	Existing	Flood	1, 3	FPA; Engineer	High	Low	General fund (staff time)	1 year	High	SIP	PP

*Notes:*

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

\*Does this mitigation initiative reduce effects of hazards on new and/or existing buildings and/or infrastructure? Not applicable (N/A) is inserted if this does not apply.

Acronyms and Abbreviations:

CAV Community Assistance Visit  
 CRS Community Rating System  
 DPW Department of Public Works  
 FEMA Federal Emergency Management Agency  
 FPA Floodplain Administrator  
 HMA Hazard Mitigation Assistance  
 N/A Not applicable  
 NFIP National Flood Insurance Program  
 NYS DHSES New York State Division of Homeland Security and Emergency Services  
 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  
 RFC Repetitive Flood Claims Grant Program (discontinued)  
 SRL Severe Repetitive Loss Grant Program (discontinued)

Timeline:

Short 1 to 5 years  
 Long Term 5 years or greater  
 OG On-going program  
 DOF Depending on funding

Costs:

Where actual project costs have been reasonably estimated:

Low < \$10,000  
 Medium \$10,000 to \$100,000  
 High > \$100,000

Where actual project costs cannot reasonably be established at this time:

Low Possible to fund under existing budget. Project is part of, or can be part of, an existing ongoing program.  
 Medium Could budget for under existing work plan, but would require a reapportionment of the budget or a budget amendment, or cost of the project would have to be spread over multiple years.  
 High Would require an increase in revenue via an alternative source (i.e., bonds,

Benefits:

Where possible, an estimate of project benefits (per FEMA's benefit calculation methodology) has been evaluated against the project costs, and is presented as:

Low < \$10,000  
 Medium \$10,000 to \$100,000  
 High > \$100,000

Where numerical project benefits cannot reasonably be established at this time:

Low Long-term benefits of the project are difficult to quantify in the short term.  
 Medium Project will have a long-term impact on reduction of risk exposure to life and property, or project will provide an immediate reduction in risk exposure to property.  
 High Project will have an immediate impact on reduction of risk exposure to life





Costs:

grants, fee increases) to implement. Existing funding levels are not adequate to cover costs of the proposed project.

Benefits:

and property.

Mitigation Category:

- *Local Plans and Regulations (LPR) – Actions that include government authorities, policies, or codes that influence the way land and buildings are developed and built.*
- *Structure and Infrastructure Project (SIP) – Actions that 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 impacts of hazards.*
- *Natural Systems Protection (NSP) – Actions that minimize damage and losses, and also preserve or restore the functions of natural systems.*
- *Education and Awareness Programs (EAP) – 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 stormwater management regulations.*
- *Property Protection (PP) – 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 construction of structures to reduce impacts 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 protection of essential facilities*



Table 9.19-3. Summary of Prioritization of Actions

Mitigation Action / Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
TPF-1	Evaluate the flood vulnerability of the Panorama Branch Post Office and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.	1	1	1	0	1	1	0	1	1	1	0	1	0	1	10	High
TPF-2	Assess and prioritize acquisition/relocation for at-risk properties within the floodplain, including those that have been identified as repetitive loss and/or severe repetitive loss.	1	1	1	1	0	0	0	1	0	1	0	0	0	0	6	Medium
TPF-3	Participate in the federal Community Rating System.	1	1	1	1	0	1	1	1	0	1	1	1	0	0	10	High
TPF-4	Develop alternate communications plan.	1	1	1	1	0	1	1	0	0	1	1	1	0	0	9	High
TPF-5	Review emergency plans for public facilities to ensure appropriate measures are considered and referenced.	1	1	1	1	0	1	1	0	0	1	1	1	0	0	9	High
TPF-6	Provide power backup supply for municipal fueling stations.	1	0	1	1	0	1	0	0	1	1	0	1	1	1	9	High
TPF-7	Provide redundant backup power supply for public supply treatment facilities and system pump stations.	1	0	1	1	0	1	0	0	1	1	0	1	1	1	9	High
TPF-8	Conduct education and outreach to residents and business owners to inform them if their properties are in known hazard areas, and actions they can take to protect their properties.	1	1	1	1	1	1	1	0	1	-1	1	1	1	1	11	High
TPF-9	Evaluate the flood vulnerability of the Plank Road South Elementary School and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.	1	1	1	0	1	1	0	1	1	1	0	1	0	1	10	High





*Note: Refer to Section 6, which contains guidance on conducting prioritization of mitigation actions. Mitigation actions carried forward from prior strategies have either retained their prioritization (shown by “-” within updated prioritization criteria), or have been re-prioritized at the discretion of the jurisdiction if they believe re-evaluation is appropriate due to changed conditions since the original prioritization.*



### **9.19.7 Future Needs To Better Understand Risk/Vulnerability**

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None at this time.

### **9.19.8 Hazard Area Extent and Location**

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Hazard area extent and location maps have been generated for the Town of Penfield that illustrate areas probably to be impacted within the municipality (see Figures 9.19-1 and 9.19-2 below). These maps are based on the best available data at the time of preparation of this Plan, and are considered adequate for planning purposes. Maps have been generated only for those hazards (i.e., landslide, wildfire, and flooding) that can be clearly identified via application of mapping techniques and technologies, and to which the Town of Penfield has significant exposure. These maps also appear in the hazard profiles within Section 5.4, Volume I of this Plan.

### **9.19.9 Additional Comments**

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None at this time.



Figure 9.19-1. Town of Penfield Landslide and Wildfire Hazard Area Extent and Location Map

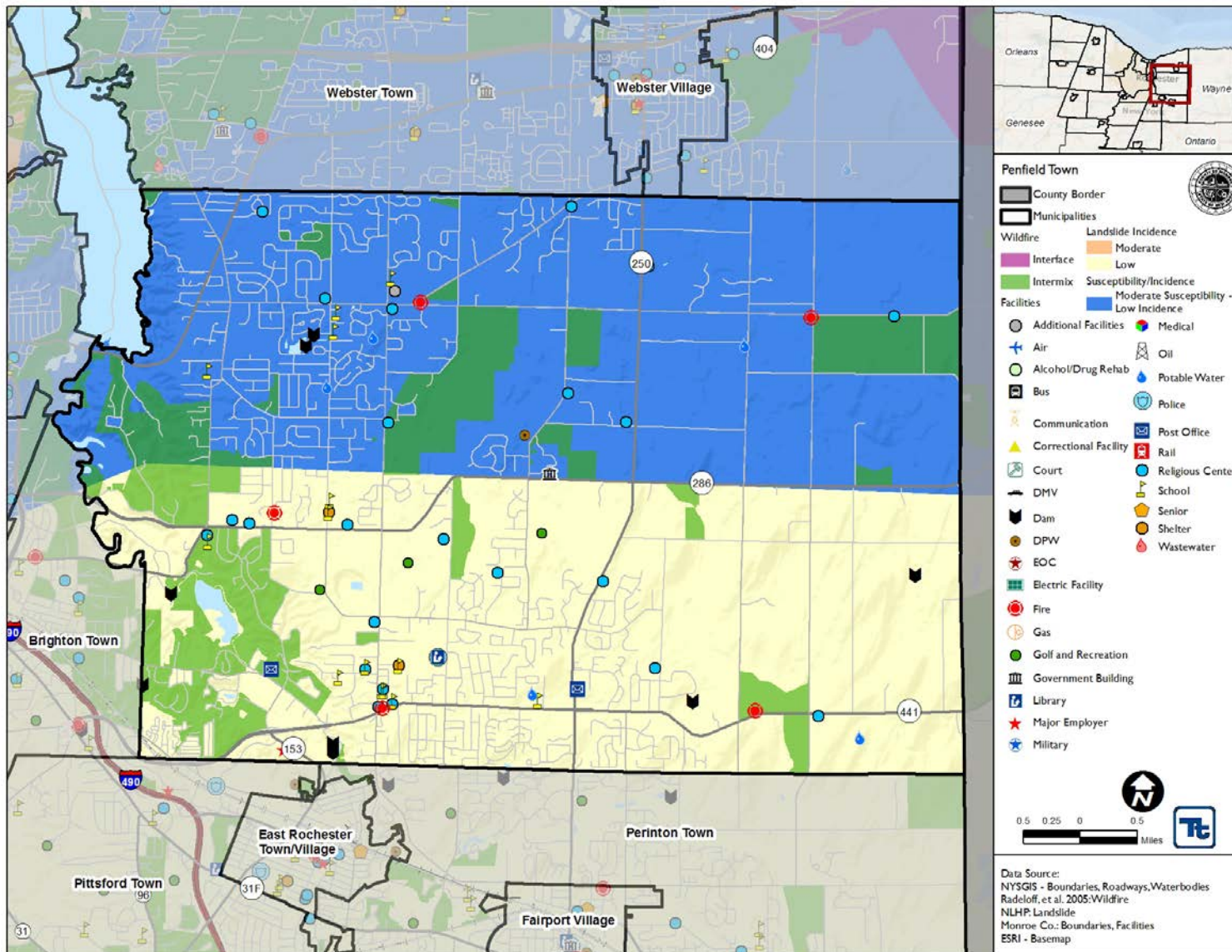
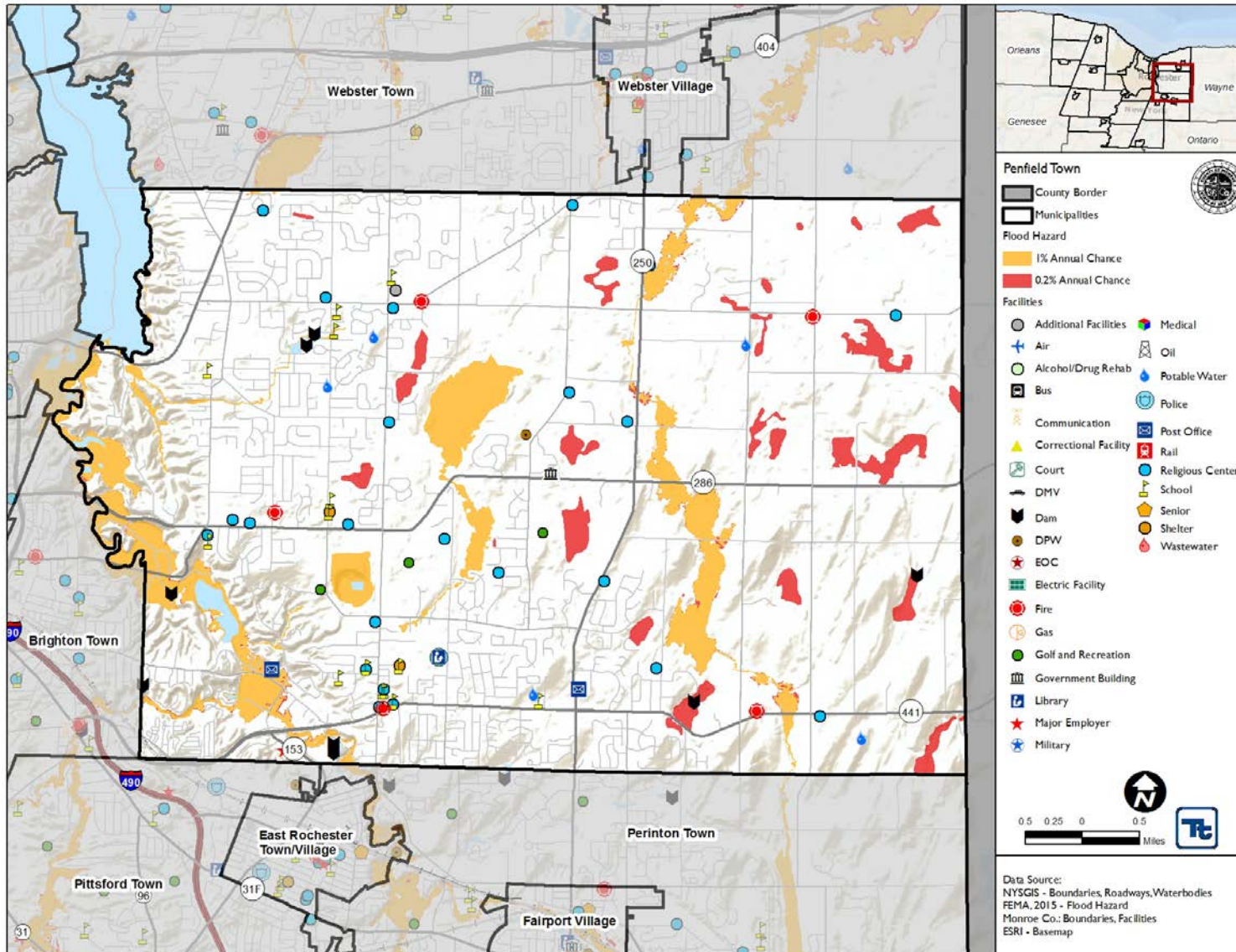




Figure 9.19-2. Town of Penfield Hazard Area 1% and 0.2% Floodplain Map







<b>Name of Jurisdiction:</b>	Town of Penfield
<b>Name and Title Completing Worksheet:</b>	
<b>Action Number:</b>	TPF-1
<b>Mitigation Action Name:</b>	Evaluate the flood vulnerability of the Panorama Branch Post Office and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.

Assessing the Risk	
<b>Hazard(s) addressed:</b>	Flooding
<b>Specific problem being mitigated:</b>	The Panorama Branch Post Office is located in the floodplain and is subject to flood damages.
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	<ol style="list-style-type: none"> <li>1. Do nothing (does not reduce flood loss)</li> <li>2. Construct flood control structure to prevent flood losses (cost prohibitive)</li> <li>3. Relocate structure (cost prohibitive)</li> </ol>
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Evaluate the flood vulnerability of the Panorama Branch Post Office and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.
<b>Mitigation Action Type</b>	SIP
<b>Goals Met</b>	1, 3
<b>Applies to existing and or new development, or not applicable</b>	Existing
<b>Benefits (losses avoided)</b>	High (avoid/minimize flood losses)
<b>Estimated Cost</b>	Low
<b>Priority*</b>	High
Plan for Implementation	
<b>Responsible Organization</b>	Floodplain Administrator; Engineer
<b>Local Planning Mechanism</b>	Normal operations
<b>Potential Funding Sources</b>	General fund (staff time)
<b>Timeline for Completion</b>	1 year
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: Progress on Action/Project:



**Action Number:**

TPF-1

**Mitigation Action Name:**

Evaluate the flood vulnerability of the Panorama Branch Post Office and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	0	
Political	1	
Legal	1	
Fiscal	0	
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	0	
Timeline	1	
Agency Champion	0	
Other Community Objectives	1	
<b>Total</b>	10	
<b>Priority</b>	High	



**Name of Jurisdiction:** Town of Penfield

**Name and Title Completing Worksheet:**

**Action Number:** TPF-2

**Mitigation Action Name:** Assess and prioritize acquisition/relocation for at-risk properties within the floodplain, including those that have been identified as repetitive loss and/or severe repetitive loss.

Assessing the Risk	
<b>Hazard(s) addressed:</b>	Flood
<b>Specific problem being mitigated:</b>	There are many structures in the floodplain in the Town, subject to damages from flooding.
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	<ol style="list-style-type: none"> <li>1. Do Nothing (structures remain vulnerable to flooding)</li> <li>2. Assess and prioritize acquisition/relocation for at-risk properties within the floodplain, including those that have been identified as repetitive loss and/or severe repetitive loss.</li> </ol>
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Assess and prioritize acquisition/relocation for at-risk properties within the floodplain, including those that have been identified as repetitive loss and/or severe repetitive loss.
<b>Mitigation Action Type</b>	SIP
<b>Goals Met</b>	1, 3
<b>Applies to existing and or new development, or not applicable</b>	Existing
<b>Benefits (losses avoided)</b>	High
<b>Estimated Cost</b>	High
<b>Priority*</b>	Medium
Plan for Implementation	
<b>Responsible Organization</b>	Town Board, Floodplain Manager
<b>Local Planning Mechanism</b>	None
<b>Potential Funding Sources</b>	FEMA (HMGP, FMA, PDM), CDBG, NYS DHSES, County
<b>Timeline for Completion</b>	Depending on funding
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: Progress on Action/Project:



**Action Number:**

TPF-2

**Mitigation Action Name:**

Assess and prioritize acquisition/relocation for at-risk properties within the floodplain, including those that have been identified as repetitive loss and/or severe repetitive loss.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	0	
Fiscal	0	
Environmental	1	
Social	0	
Administrative	1	
Multi-Hazard	0	
Timeline	0	
Agency Champion	0	
Other Community Objectives	0	
<b>Total</b>	6	
<b>Priority (Tier I, II or III)</b>	Medium	



Name of Jurisdiction: Town of Penfield

Name and Title Completing Worksheet: \_\_\_\_\_

Action Number: TPF-6

Mitigation Action Name: Provide backup power for municipal fueling stations.

Assessing the Risk	
Hazard(s) addressed:	Utility Failure
Specific problem being mitigated:	Current lack of backup power at these critical facilities, necessary for continued operation of road crews during emergencies.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	Purchase temporary mobile generators and equip municipal fueling stations with hookups—not practical due to increased reliance on emergency responders/Town personnel to deliver and share portable generators.
Action/Project Intended for Implementation	
Description of Selected Action/Project	Install permanent backup power supply at municipal fueling stations.
Mitigation Action Type	SIP
Goals Met	2, 3
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	High – Maintain continuous operations of critical facilities during emergency.
Estimated Cost	Medium
Priority*	High
Plan for Implementation	
Responsible Organization	DPW
Local Planning Mechanism	Town Capital Improvements
Potential Funding Sources	Town Budget, County OEM
Timeline for Completion	Short-Term
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:



**Action Number:** TPF-6

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**Mitigation Action Name:** Install backup power at municipal fueling stations.

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Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Associated risk from loss of service of fueling stations during an emergency.
Property Protection	0	
Cost-Effectiveness	1	Operational costs from loss of service are far more than costs of installation.
Technical	1	Project is technically feasible.
Political	0	
Legal	1	Town has legal jurisdiction over the facilities.
Fiscal	0	May require external funding.
Environmental	0	
Social	1	The proposed project will not adversely impact one segment of the population.
Administrative	1	The project will be administered by Town staff.
Multi-Hazard	0	Utility Failure
Timeline	1	May be implemented within 5 years.
Agency Champion	1	Town Board
Other Community Objectives	1	“Disaster-proof” or “Target-harden” public facilities.
<b>Total</b>	9	
<b>Priority (High, Medium, Low)</b>	High	



**Name of Jurisdiction:** Town of Penfield

**Name and Title Completing Worksheet:** \_\_\_\_\_

**Action Number:** TPF-7

**Mitigation Action Name:** Provide redundant backup power supply for public supply treatment facilities and system pump stations.

Assessing the Risk	
<b>Hazard(s) addressed:</b>	All hazards
<b>Specific problem being mitigated:</b>	Power loss at critical facilities
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	The Town is currently considering the feasibility of installing permanent generators or possibly the option of installing transfer switches to facilitate use of mobile generators.
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Provide redundant backup power supply for public supply treatment facilities and system pump stations.
<b>Mitigation Action Type</b>	SIP
<b>Goals Met</b>	2, 3
<b>Applies to existing and or new development, or not applicable</b>	Existing
<b>Benefits (losses avoided)</b>	High – reduce risk of power outage at critical facilities
<b>Estimated Cost</b>	Medium
<b>Priority*</b>	High
Plan for Implementation	
<b>Responsible Organization</b>	DPW
<b>Local Planning Mechanism</b>	DPW operations
<b>Potential Funding Sources</b>	Budget & PDM
<b>Timeline for Completion</b>	Long Term
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: Progress on Action/Project:



Action Number:

TPF-7

Mitigation Action Name:

Provide redundant backup power supply for public supply treatment facilities and system pump stations.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	0	
Cost Effectiveness	1	
Technical	1	It would be technically feasible.
Political	0	
Legal	1	
Fiscal	0	Grant funding required
Environmental	0	
Social	1	
Administrative	1	The jurisdiction has the personnel and administrative capabilities to implement the action.
Multi-Hazard	0	Eliminate need to relocate essential services for residents, as well as support continuity of government.
Timeline	1	
Agency Champion	1	If determined feasible, it would be a supported project.
Other Community Objectives	1	
<b>Total</b>	9	
<b>Priority (High, Medium, or Low)</b>	High	





**Name of Jurisdiction:** Town of Penfield

**Name and Title Completing Worksheet:**

**Action Number:** TPF-9

**Mitigation Action Name:** Evaluate the flood vulnerability of the Plank Road South Elementary School and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.

Assessing the Risk	
<b>Hazard(s) addressed:</b>	Flooding
<b>Specific problem being mitigated:</b>	The Plank Road South Elementary School is located in the floodplain and is subject to flood damages.
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	<ol style="list-style-type: none"> <li>1. Do nothing (does not reduce flood loss)</li> <li>2. Construct flood control structure to prevent flood losses (cost prohibitive)</li> <li>3. Relocate structure (cost prohibitive)</li> </ol>
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Evaluate the flood vulnerability of the Plank Road South Elementary School and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.
<b>Mitigation Action Type</b>	SIP
<b>Goals Met</b>	1, 3
<b>Applies to existing and or new development, or not applicable</b>	Existing
<b>Benefits (losses avoided)</b>	High (avoid/minimize flood losses)
<b>Estimated Cost</b>	Low
<b>Priority*</b>	High
Plan for Implementation	
<b>Responsible Organization</b>	Floodplain Administrator; Engineer
<b>Local Planning Mechanism</b>	Normal operations
<b>Potential Funding Sources</b>	General fund (staff time)
<b>Timeline for Completion</b>	1 year
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: Progress on Action/Project:



**Action Number:**

TPF-9

**Mitigation Action Name:**

Evaluate the flood vulnerability of the Plank Road South Elementary School and identify feasible mitigation actions to reduce risk to the 0.2 percent annual chance flood.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	0	
Political	1	
Legal	1	
Fiscal	0	
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	0	
Timeline	1	
Agency Champion	0	
Other Community Objectives	1	
<b>Total</b>	10	
<b>Priority</b>	High	