



## 9.21 TOWN OF PITTSFORD

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

### 9.21.1 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
Kelly Cline, Fire Marshal 11 S. Main Street, Pittsford, NY 14534 (585) 248-6250 kcline@townofpittsford.org	Paul Schenkel, Commissioner of Public Works 11 S. Main Street, Pittsford, NY 14534 (585) 248-6250 pschenkel@townofpittsford.org

### 9.21.2 Municipal Profile

The Town of Pittsford is in the southeastern quadrant of Monroe County and is a suburb of the City of Rochester, roughly 8 miles to the northwest. Pittsford is bordered north by the Towns of Brighton and Penfield, east by the Town of Perinton, south by the Town of Mendon, and west by the Towns of Henrietta and Brighton. Pittsford encompasses 23.2 square miles of land and 0.2 square miles of water, and has a population of 29,405 according to the 2010 U.S. Census.

The Town of Pittsford was established in 1814, the result of the Town of Northfield's subdivision into Pittsford and Henrietta. Construction and completion of the Erie Canal in 1825 spurred commercial growth, and led to incorporation of the Village of Pittsford within the Town's borders in 1827. Growth of the Town of Pittsford's economy accelerated further with establishment of the Auburn and Rochester railroad in 1842. Both the canal and the railroads still contribute to the livelihood of the Town today. Some original structures within the Town of Pittsford built on the canal are still present today (now within the Village of Pittsford), and many of these have been converted into restaurants, cafes, and shops.

The Town of Pittsford hosts numerous professional sporting events attended by national and international crowds. Celebrated golf tournaments including the PGA Championship, U.S. Open, and Ryder Cup have been held at Oak Hill Country Club. The Locust Hill Country Club and the Monroe Golf Club also host the annual Wegmans LPGA tournament every June, one of the four women's major golf championships. Finally, the NFL Buffalo Bills have their summer training camp at St. John Fisher College, and the team hosts one or more exhibition games that attract tens of thousands of fans into the Town of Pittsford.

### Growth/Development Trends

Table 9.21-1 below summarizes residential/commercial development since 2010 and any known or anticipated major residential/commercial development and major infrastructure development slated for the next 5 years within the municipality. Refer to the maps following Section 9.21.9 of this annex: Figure 9-21-1 that illustrates landslide and wildfire hazard areas, and Figure 9-21-2 (floodplain map).



Table 9.21-1. Growth and Development

Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Location (address and/or Parcel ID)	Known Hazard Zone(s)	Description/Status of Development
<b>Recent Development from 2010 to present</b>					
Coventry Ridge Sub	Res.	112	3400 block, Clover St.	None	10% Complete
Wilshire Hill Sub	Res.	92	380 Mendon Ct. Rd	None	5% Complete
Kensington Woods	Res.	17	Whitley court	None	100% Complete
Nazareth College	Comm.	74,000 square ft.	4245 East Avenue	None	100 % Complete
<b>Known or Anticipated Development within the Next 5 Years</b>					
Panorama Landing	Comm.	110,000 square feet	Panorama Trail S.	None	Not Started
YMCA of Rochester	Comm.	110,000 square feet	Clover St. / W. Jefferson	None	Not Started

Note: Only location-specific hazard zones or vulnerabilities are identified.

### 9.21.3 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 9.21-2 below. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.21-2. Hazard Event History

Dates of Event	Event Type	Federal Emergency Management Agency (FEMA) Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
May 8, 2010	High Wind	N/A	N/A	The local Fire Departments received increased requests for services.
April 26 - May 8, 2011	Severe Storms, Flooding, Tornadoes, and Straight-line Winds	DR-1993	No	The local Fire Departments received slightly increased requests for services.
January 17, 2012	High Wind	N/A	N/A	The local Fire Departments received slightly increased requests for services.
October 27 – November 8, 2012	Hurricane Sandy	EM-3351	Yes	The local Fire Departments received increased requests for services.
June 26 - July 11, 2013	Severe Storms and Flooding	DR-4129	No	The local Fire Departments received increased requests for services.
May 13-22, 2014	Severe Storms and Flooding	DR-4180	No	The local Fire Departments received slightly increased requests for services.



### 9.21.4 Hazard Vulnerabilities and Ranking

The hazard profiles in Section 5.0 of this plan have 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 Pittsford. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.0.

#### Hazard Risk/Vulnerability Risk Ranking

Table 9.21-3 below summarizes hazard risk/vulnerability rankings of potential hazards for the Town of Pittsford. The hazards of concern for the Town are those with a High hazard ranking.

**Table 9.21-3. 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>
Severe Storm	Expected Losses from Wind Alone: \$0	Frequent	48	High
Utility Failure	Damage Estimate Not Available	Frequent	39	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: \$74,637,413 5% Damage Loss Estimate: \$373,187,065 10% Damage Loss Estimate: \$746,374,131	Frequent	36	High
Earthquake	100-year MRP GBS: \$140,336 500-year MRP GBS: \$3,038,784 2,500-year MRP GBS: \$36,409,670 Annualized: \$40,046	Frequent	24	Medium
Flood	1% annual chance: \$32,376,898	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 WUI: \$680,127,937	Frequent	18	Medium
Civil Unrest	Damage Estimate Not Available	Occasional	12	Low
Drought	Damage Estimate Not Available	Frequent	12	Low
Landslide	Exposed: \$0	Frequent	0	Low

**Notes:**

1. Building damage ratio estimates were based on 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.

MRP Mean return period

GBS General building stock

WUI Wildland- urban interface

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

Table 9-21-4 below summarizes NFIP statistics for the Town of Pittsford.





Table 9.21-4. NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 100-year Boundary (3)
Pittsford (T)	82	15	\$116,032	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 9.21-5 below presents Hazards United States – Multi-Hazards (HAZUS-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 9.21-5. 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
None identified.					

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.

## Other Vulnerabilities Identified

In the Town of Pittsford, natural features such as ponds, lakes, and swamps retain some storm runoff to decrease discharge of some streams, and earth dams have been constructed across some streams to detain their discharge. Although some structural flood control measures have been implemented, the town primarily relies on land control measures to minimize flood damage and to protect the public health, safety, and general welfare of its citizens (FIS 2008). Additionally, the municipality has identified the following vulnerability within the community:

The Town reports slightly greater frequency of severe storms than in years past.



### 9.21.5 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 9.21-6 below summarizes regulatory tools available to the Town of Pittsford.

**Table 9.21-6. 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	Local	Department of Public Works (DPW)	Town Comprehensive Plan last adopted 2009. Updated 2015. <a href="http://townofpittsford.org/comp_plan_info_page">http://townofpittsford.org/comp_plan_info_page</a> , <a href="http://pittsfordplan.com/">http://pittsfordplan.com/</a>
Capital Improvements Plan	Yes	Local	Departmental	Information Technology (IT), DPW
Floodplain Management / Basin Plan	Yes	Local	DPW	Ch. 95: Flood Damage Prevention, 8-5-2008 <a href="http://ecode360.com/6434610">http://ecode360.com/6434610</a>
Stormwater Management Plan	Yes	Local	DPW	Ch. 127: Stormwater Management and Erosion and Sediment Control; 11-20-2007, 2014 updating <a href="http://ecode360.com/6649362">http://ecode360.com/6649362</a>
Open Space Plan	Yes	Local	DPW	Ch. 185: Zoning, 9-18-2012, Article XXIX: Site Plan Approval; <a href="http://ecode360.com/6437230#6437230">http://ecode360.com/6437230#6437230</a> Ch. 175: Subdivision of Land; 11-8-2012; <a href="http://ecode360.com/6435504">http://ecode360.com/6435504</a> ; Greenprint for Pittsford's Future
Stream Corridor Management Plan	Yes	Local	DPW	Comprehensive Plan
Watershed Management or Protection Plan	Yes	Local	DPW	Comprehensive Plan
Economic Development Plan	No			
Comprehensive Emergency Management Plan	Yes	Local	DPW	All Hazard Plan local plan. Utilize County Plan In coordination with the local Emergency Services Organizations.
Emergency Response Plan	Yes	Local	DPW	All Hazard Plan / Point of Dispensing (POD) Plan
Post-Disaster Recovery Plan	Yes			Referenced in the All Hazard Plan.
Transportation Plan	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.)
Strategic Recovery Planning Report	No			Town of Pittsford Update to Parks and Recreation Master Plan, 2012
Other Plans:				
<b>Regulatory Capability</b>				
Building Code	Yes	Local	DPW	Enforce New York State (NYS) Building Codes; Building Construction and Maintenance Chapter 64
Zoning Ordinance	Yes	Local	Town of Pittsford Planning Board	Ch. 185: Zoning, 9-18-2012; <a href="http://ecode360.com/6435505">http://ecode360.com/6435505</a>
Subdivision Ordinance	Yes	Local	DPW	Ch. 175: Subdivision of Land; 11-8-2012; <a href="http://ecode360.com/6435504">http://ecode360.com/6435504</a>
NFIP Flood Damage Prevention Ordinance	Yes	Local	Commissioner of Public Works and the Director of Planning, Zoning and Development	Ch. 95: Flood Damage Prevention, 8-5-2008 <a href="http://ecode360.com/6434610">http://ecode360.com/6434610</a>
NFIP: Cumulative Substantial Damages	Yes	Local	Commissioner of Public Works and the Director of Planning, Zoning and Development	Ch. 95: Flood Damage Prevention, 8-5-2008 <a href="http://ecode360.com/6434610">http://ecode360.com/6434610</a>
NFIP: Freeboard	Yes	State, Local		State mandated Base Flood Elevation (BFE)+2 for single and two-family residential construction, BFE+1 for all other construction types Ch. 95: Flood Damage Prevention, 8-5-2008 <a href="http://ecode360.com/6434610">http://ecode360.com/6434610</a>
Growth Management Ordinances	Yes	Local		Incorporated into Zoning Code
Site Plan Review Requirements	Yes	Local	Town of Pittsford Planning Board	For Waterfront Overlay District and Monroe Avenue Transitional Zone (MATZ); Ch. 185: Zoning, 9-18-2012; <a href="http://ecode360.com/6435505">http://ecode360.com/6435505</a>
Stormwater Management Ordinance	Yes	Local	DPW	Ch. 127: Stormwater Management and Erosion and Sediment Control; 11-20-2007, 2014 updating <a href="http://ecode360.com/6649362">http://ecode360.com/6649362</a>
Municipal Separate Storm Sewer System (MS4)	Yes	Local		Ch. 127: Stormwater Management and Erosion and Sediment Control; 11-20-2007, 2014 updating <a href="http://ecode360.com/6649362">http://ecode360.com/6649362</a> ; Sewers Chapter 121; Storm Sewers Chapter 128
Natural Hazard Ordinance	No			
Post-Disaster Recovery Ordinance	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.)
Real Estate Disclosure Requirement	Yes	State		NYS mandate, Property Condition Disclosure Act, <i>NY Code</i> – Article 14 §460-467
Other [Special Purpose Ordinances (i.e., sensitive areas, steep slope)]				

### Administrative and Technical Capability

Table 9.21-7 below summarizes potential staff and personnel resources available to the Town of Pittsford.

**Table 9.2-7. Administrative and Technical Capabilities**

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
<b>Administrative Capability</b>		
Planning Board	Yes	Appointed by Town Board
Mitigation Planning Committee	Yes	Commissioner of Public Works, Fire Marshal, Engineer, Deputy Commissioner of Public Works, Director of Planning Zoning and Development
Environmental Board/Commission	Yes	Appointed by Town Board
Open Space Board/Committee	Yes	Appointed by Town Board
Economic Development Commission/Committee	No	
Maintenance Programs to Reduce Risk	Yes	Roads program, fleet maintenance program, sewer maintenance program.
Mutual Aid Agreements	Yes	Agreements with local municipalities and emergency services
<b>Technical/Staffing Capability</b>		
Planner(s) or Engineer(s) with knowledge of land development and land management practices	Yes	DPW
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	DPW
Planners or engineers with an understanding of natural hazards	Yes	DPW; Contract with MRB Group consultants to review floodplain drainage
NFIP Floodplain Administrator	Yes	Town Engineer
Surveyor(s)	No	
Personnel skilled or trained in GIS and/or HAZUS-MH applications	Yes	GIS Administrator
Scientist familiar with natural hazards	No	
Emergency Manager	No	
Grant Writer(s)	Yes	Departmental – Town Staff as needed
Staff with expertise or training in benefit/cost analysis	Yes	Finance Director
Professionals trained in conducting damage assessments	Yes	Fire Marshal – Cedar



## Fiscal Capability

Table 9.21-8 below summarizes financial resources available to the Town of Pittsford.

**Table 9.21-8. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for specific purposes	Yes
User fees for water, sewer, gas, or electric service	Yes
Impact Fees for homebuyers or developers of new development/homes	Don't Know
Stormwater Utility Fee	Don't Know
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Don't Know
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	Don't know
Other Federal or State Funding Programs	Yes
Open Space Acquisition Funding Programs	Yes
Other	Don't know

## Community Classifications

Table 9.21-9 below summarizes classifications for community program available to the Town of Pittsford.

**Table 9.21-9. 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)	Yes	Brighton Fire 3 Pittsford fire 3 East Rochester Fire 3	
Storm Ready	Yes	StormReady County	
Firewise	No		
Disaster/Safety Programs in/for Schools	Yes		
Organizations with Mitigation Focus (advocacy group, non-government)	No		
Public Education Program/Outreach (through website, social media)	Yes		
Public-Private Partnerships	Yes		

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 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 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 ISO Mitigation online ISO's 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 9.21-10 below provides an approximate measure of the Town of Pittsford's capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.

**Table 9.21-10. 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)

Town Engineer

#### 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 the significant storm events referenced, and of how many constituents are 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 person assuming responsibilities of floodplain administration, and is supported by the Town Engineer, Building Inspectors, Geographic Information System (GIS) Administrator, Town's Planner, and Code Enforcement. The Town FPA provides mapping and code interpretations, permit reviews, inspections, record keeping, individual educational outreach, and, when sponsored by FEMA or the State, educational outreach to the community.



The Town FPA noted barriers to running an effective floodplain management program in the Town of Pittsford, including FEMA's failure to update mapping and hydraulic modeling in areas of flooding and potential flooding of several streams. The FPA feels that he is adequately supported and trained to fulfill the responsibilities of municipal Floodplain Administrator, although he has not received any formal training from 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 floodplain administrators.

### **Compliance History**

As of June 30, 2015, 82 policies were in force, 26 of which were within the 100-year flood boundary. In the Town of Pittsford are one repetitive loss property and no severe repetitive loss properties. Since 1978, 15 claims have been paid within the Town of Pittsford, totaling \$116,032. According to the NFIP Policy Statistics report available at the time of this plan, policies in the Town insured more than \$19 million of property, with total annual insurance premiums of \$76,790.

The FPA reports no outstanding NFIP compliance issues in the community, and that the most recent Community Assistance Visit (CAV) was completed in 2014.

### **Regulatory**

The Town's Flood Damage Prevention Ordinance (FDPO) was last revised in August 2008, and appears in Chapter 95 of the local code. Floodplain management regulations and ordinances meet FEMA and New York State (NYS) minimum requirements, and do not exceed these requirements.

The Town of Pittsford has other local ordinances, plans, and programs that support floodplain management and meet NFIP requirements. For example, floodplain management is integrated into the activities of the Building, Zoning, Planning, and Code enforcement teams, as are those activities of the Town's regulatory boards.

### **Community Rating System**

The Town of Pittsford does not participate in the CRS program—it considered joining but found the program too costly and cumbersome to significantly benefit the Town. The Town FPA would be happy to attend an informative seminar if offered.

### **Other Capabilities Identified**

Previous actions that have become ongoing programs and capabilities are described below. Refer to Table 9.21-11 later in this annex.

- The Town Board has ongoing capability to conduct property acquisition for open space and historical preservation.
- The Town has installed generators, new doors, and cameras at municipal buildings.
- The Town has installed new security gates and cameras at Town Facilities.
- Generators have been installed for pump stations in efforts to "Target-harden" critical facilities.
- Local fire departments encourage residential use of smoke detectors through public education via their websites and annual open houses. Fire departments also conduct "give away" programs, and carry detectors on the apparatus to install if needed.
- The Pittsford, Brighton, and East Rochester Fire Departments participate in Special Operations and Tactical Rescue training, including water rescue training in coordination with Monroe County.
- The Town Department of Public Works (DPW) provides information about the Erie Canal and its spillway locations when requested by residents.



- During storm cleanup events, the Town of Pittsford coordinates with local emergency services to inventory the Town to determine damage extent and develop a response plan for areas in need. This strategy helps reduce time required to clear streets (Rights-of-Way) of debris.
- The Town DPW and Communications Director have overseen installations of battery backup phones, and have portable radios to share with emergency services as an alternate means of communication during disasters.
- The Town DPW has included a public outreach component in its all hazard plan for alternate communications with residents during emergency events, including mailings, door hangers, and emergency leaflets if necessary.
- The Town of Pittsford has DPW/Department of Transportation (DOT) Plans for debris clearance, removal, and disposal in place.
- The Town DPW is upgrading pump stations with emergency backup power.

### **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 day-to-day local government operations. As part of this planning effort, each community was surveyed to obtain a better understanding of that community's progress in plan integration. A summary appears below. In addition, the community identified specific integration activities to incorporate into municipal procedures.

#### **Planning**

**Land Use Planning:** The Town of Pittsford 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 Environmental Quality Review (SEQR) and Federal National Environmental Protection Act (NEPA) requirements. The Town also has a GIS division under its Public Works Department, and this division supports community planning and decision-making processes. The Planning Board and Zoning Board of Appeals (ZBA) are provided with maps, codes, and GIS information to guide their decisions with respect to natural hazard risk management.

**Greenprint for Pittsford's Future:** The Town of Pittsford developed this program as a tool for ensuring preservation of its agricultural and open space resources. This program, recognized as a national model for community conservation, seeks to preserve 67% of undeveloped land within the Town's boundaries.

**Town of Pittsford Comprehensive Plan, 2015:** The Town of Pittsford is updating its comprehensive plan from the previous 2009 version (the Town makes both its 1995 and 2009 versions available online). Part of this update refers to a local or Countywide Hazard Mitigation Plan, and includes identification of natural hazard risk areas and environmentally sensitive areas such as wetlands, floodplains, and major waterbodies (principally Erie Canal), as well as land use and zoning recommendations for managing risks and directing growth. The Town intends to present the final draft in 2016.

**Town of Pittsford Update to Parks and Recreation Master Plan, 2012:** Most of this plan consists of a field use study and resulting recommendations. Although this plan primarily focuses on recreational benefits and needs of the community, it also emphasizes the importance of preserving open space.

#### **Regulatory and Enforcement**

**Building Construction and Maintenance Chapter 64:** 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).



**Flood Damage Prevention Chapter 95:** This chapter 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.

**Sewers Chapter 121:** The Town protects and regulates its sewage collection and treatment facilities as a matter of public health and environmental safety. It seeks to prohibit introduction of stormwater, surface water, or sub-surface waters into sanitary sewers, and to control quantity and quality of wastes in the sewage system.

**Stormwater Management and Erosion and Sediment Control Chapter 127:** The Town's stormwater management chapter seeks to mediate adverse impacts of stormwater runoff, sedimentation, and erosion caused by existing drainage systems. It also serves to control degradation of water quality in the Town.

**Stormwater Coalition:** As part of its normal operations, the Town participates in the Monroe County Stormwater Coalition. Through the Coalition, members work together to comply with federal regulations and improve water quality. Programs enacted through the Coalition include outreach and training, technical assistance, investigations of illegal discharges, pollution prevention, and identifying needed infrastructure.

**Storm Sewers Chapter 128:** 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 stormwater discharge pollutants, non-stormwater discharges to the storm drain system, and stormwater discharges to sanitary sewers.

**Subdivision of Land Chapter 175:** The Town's Planning Board is tasked with site plan/subdivision review. Design standards consider infrastructure that can exacerbate or, conversely, mitigate hazard impacts.

**Zoning Chapter 185:** The Town of Pittsford's zoning code includes districts and standards pertaining to mitigation of hazards. These sections include the local waterfront overlay district, transitional zones, and agricultural zones.

## Fiscal

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**Operating Budget:** The Town's operating budget contains minimal provisions for expected repairs like snow removal, leaf pickup, and infrastructure repair after a storm or natural disaster. The Town also allots funding for maintaining the 100+ miles of town roads, maintaining the 1,300 acres of parkland and open space, and maintaining more than 27 recreational trails and access ways. In addition, the Town's Capital Improvements Budget includes budget for mitigation-related projects.

**Employment:** Job descriptions for Town DPW Staff specifically include identifying and/or implementing mitigation projects/actions or other efforts to reduce natural hazard risk.

## Education and Outreach

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As able and to meet all professional requirements, Town of Pittsford 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.

Town of Pittsford residents can access information about the community and upcoming events through a variety of means, most managed by the Town's Department of Communications. The Town maintains a weekly e-newsletter and a printed newsletter (*The Pittsford Messenger*), as well as specialized mailings for events and seasonal services. The Town provides information on flood hazards and drainage via Facebook, Twitter,



Instagram, quarterly newsletter, weekly e-newsletter, and postcard mailings. Town Emergency Preparedness and Fire Departments provide outreach and education in safe use of generators. In addition, residents can sign up for reverse 911 cell phone notifications of emergency situations through the Monroe County Emergency Communications Department.



### **9.21.6 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 9.21-11 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 9.21-11, 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 9-21-12).



Table 9.21-11. 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.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
ES-4: Stockpile emergency supplies.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
ES-5: Solicit "Mutual Aid" agreements.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
ES-6: Engage emergency service jurisdictions in local municipal government processes.	DPW	Continuous	The Town of Pittsford facilitates quarterly meetings with the local emergency services and school district.	Discontinue	Integrated into the Town's normal operations - ongoing operational capability
NRP-1: Ensure proper disposal of Hazardous Waste.	DPW	Continuous	The Town of Pittsford facilitates in cooperation with the County of Monroe a Household hazardous waste program for residents.	Discontinue	Integrated into the Town's normal operations - ongoing operational capability
NRP-2: Enforce government permit processes. This may pertain to existing and/or new infrastructure.	DPW	Ongoing	The Town of Pittsford enforces the NYS Unified Code requiring building permits.	Discontinue	Integrated into the Town's normal operations - ongoing operational capability
NRP-3: Provide comprehensive inspection services. This may pertain to existing and/or new infrastructure.	DPW	Ongoing	The Town of Pittsford has contracts in place with outside agencies.	Discontinue	Integrated into the Town's normal operations - ongoing operational capability
NRP-4: Administer a Floodplain Management Program. This may pertain to existing and/or new infrastructure.	DPW	Ongoing	Administered thru local code	Discontinue	Integrated into the Town's normal operations - ongoing operational capability
NRP-5: Maintain "Urban Forests."	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
PEA-3: Review Utility Service & restoration plans.	DPW	Ongoing	Plan review for work in the right of way	Discontinue	Integrated into the Town's normal operations - 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.
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.	DPW			Discontinue	Integrated into the Town's normal operations - ongoing operational capability
PP-2: Maintain public infrastructure. This may pertain to existing and/or new infrastructure.	DPW	Ongoing	Road Maintenance Program	Discontinue	Integrated into the Town's normal operations - ongoing operational capability
PP-3: Solicit inter-municipal and interagency cooperation.	Yes	Ongoing	Shared GIS agreements with local emergency services. Fleet agreements with other municipalities.	Discontinue	Integrated into the Town's normal operations - ongoing operational capability
PP-4: Promote purchase of appropriate hazard insurance policies. This may pertain to existing and/or new infrastructure.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
PP-5: Property acquisition	Town Board	Ongoing	Open space acquisition and historical preservation	Discontinue – Ongoing capability	The Town of Pittsford acquired 9 pieces of land thru open space requirements with new development. Additional properties could be acquired with future subdivision development.
PR-1: Enforce Building Code as required for existing and new infrastructure.	DPW	Ongoing	The Town of Pittsford enforces the NYS Unified Code	Discontinue	Integrated into the Town's normal operations - ongoing operational capability
PR-2: Comply with applicable federal and state regulations.	Departmental	Ongoing		Discontinue	Integrated into the Town's normal operations - ongoing operational capability
PR-5: Regular review of Local Laws	Attorney, DPW Town Board	Ongoing		Discontinue	Integrated into the Town's normal operations - 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.
SP-1: Disaster “proof” public facilities. This may pertain to existing and/or new infrastructure.	DPW	Ongoing	The Town of Pittsford has installed generators, new doors and cameras at municipal buildings. Sewer Department pump stations also received backup generators where continuous power is necessary.		
SP-2: Secure and provide redundant critical systems and facilities. This may pertain to existing and/or new infrastructure.	IT	Ongoing	IT has provided for critical back up of information. All existing pump stations that require immediate continuous power were provided with backup generation. All future pump stations installed are required to have back up generation.	Discontinue	Integrated into the Town’s normal operations - ongoing operational capability
SP-3: “Target Harden” facilities. This may pertain to existing and/or new infrastructure.	DPW	Ongoing	The Town has installed new security gates at the Town Highway Facility, Cameras have been installed at Town facilities and Generators have been installed for pump stations where necessary. The town Hall, Sewer Department, Highway and Library had exterior cameras installed. The Library had interior cameras installed. New security doors were installed at the Town Hall. A walk thru metal detector was installed at the Court Building.	Discontinue	Integrated into the Town’s normal operations - ongoing operational capability
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-PP-1: Encourage residential use of smoke detectors through public education, and “give away” programs. This may pertain to existing and/or new infrastructure.	Pittsford Fire Dept. Brighton Fire Department and East Rochester Fire Department	In progress	The local fire departments are carrying detectors on the apparatus to install if needed. They also encourage use thru their websites and annual open houses.	Discontinue	Integrated into the Town’s normal operations. Ongoing operational capability.
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	Pittsford Fire Dept. Brighton Fire Department and East	In progress	The Fire Departments are participating in training in coordination with Monroe County.	Discontinue	Integrated into the Town’s normal operations. 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.
	Rochester Fire Department				
FI-PEA-1: Provide information about the Erie Canal and its spillway locations	DPW	Ongoing	Informally when requested by residents.	Discontinue	Integrated into the Town's normal operations. Ongoing operational capability.
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.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
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).	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
FI-PR-1: Implement an annual, "Waterway/ Drainage Maintenance" Program	DPW	Ongoing	Ongoing per MS4 direction	Discontinued	Ongoing operational capability.
FI-SP-1: Local Project. Implement mitigation measures for Irondequoit Creek, as identified by the U.S. Army 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.	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.
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.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-ES-1: Develop a strategy to reduce the time it takes to clear streets (Rights-of-Way) of debris	DPW IT GIS	Ongoing	During events, the Town of Pittsford coordinates with local emergency services to inventory the Town to determine damage extent and develop a response plan to the needed areas.	Discontinue	Integrated into the Town's normal operations. Ongoing operational capability.
Ice-ES-2: Regularly review restoration priorities	DPW	Ongoing	The Town has inventoried its critical infrastructures and buildings.	Discontinue	Integrated into the Town's normal operations - Ongoing operational capability.
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	DPW Communications Director	Ongoing	The Town has installed battery backup phones and have portable radios to share with emergency services.	Discontinue	Integrated into the Town's normal operations. Ongoing operational capability.
Ice-PEA-3: Provide automated utility restoration schedule to the public	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
Ice-PEA-4: Provide more public outreach during an emergency	DPW	Ongoing	The Town has included in its all hazard plan for alternate communications with residents including mailings, door hangers and if necessary emergency leaflets.	Discontinue	Integrated into the Town's normal operations. Ongoing operational capability.
Ice-PEA-5: Expand utility Customer Service capacity	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.
Ice-PEA-6: Expand information available on websites	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
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"	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
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	Ongoing	The Town of Pittsford has an existing plan to remove and dispose of debris.	Discontinue	Integrated into the Town's normal operations. 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.	DPW	Ongoing	The Town is in the process of upgrading the pump stations with emergency backup power.	Discontinue	Integrated into the Town's normal operations. Ongoing operational capability.
Land-PEA-1: Local Project. Promote understanding and use of (telephone number) 811, "Call Before You Dig."	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.
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.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
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.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
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	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
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.
Trans-PEA-1: Local Project. Provide traffic reports through the local broadcasters	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-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.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.
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.	N/A	No Progress	N/A	Discontinued	Not applicable to Town.



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

Other than those identified in the previous mitigation strategy in the 2011 Plan, the Town of Pittsford did not note completion of any additional mitigation projects/activities. The Monroe County Soil and Water Conservation District (SWCD), however, recently (as of November 2015) secured approximately \$79,000 in funding to implement Agricultural Best Management Practices (BMP) for four farms in the Irondequoit Creek Watershed. Three of these farms are in the Town of Pittsford, and the fourth farm is in the Town of Mendon.

### 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 the County's 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 could assist in development of the jurisdictional annexes, including mitigation strategies and action worksheets, as necessary.

Table 9.21-12 summarizes the range of specific mitigation initiatives the Town of Pittsford 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 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 9.21-12 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 9.21-12 summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.21-13 summarizes prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.21-12. 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
TPT -1	Install back-up power for the Town Hall, Recreation Building, and Library. Study feasibility of using permanent generators versus transfer switches.	Existing	All hazards	2, 3	DPW	High – reduce risk of power outage at critical facilities	Medium	Town Budget & PDM	Long Term	Medium	SIP	PP
TPT -2	Study the most effective method to provide critical backup services such as internet and phones.	Existing	All hazards	1, 3	IT & DPW	Medium – business continuity	Medium	Town Budget & PDM	Short Term	Medium	LPR	PP, ES
TPT -3	Develop a maintenance plan for inventoried ash trees.	Existing	Infestation	1, 2, 5	DPW	Low – reduce damage to private property by trees on public land	Low	Town Budget	Short Term	Medium	LPR	NR, PR
TPT -4	Conduct public outreach / education to inform property owners of the importance of identifying and correcting cross connections to eliminate point source pollution.	Existing	Severe storm, hazardous materials, earthquake	3, 4, 5	DPW	Low	Low	Town Budget	Short Term	High	EAP , NSP	PI, NR
TPT -5	Conduct public outreach / education to educate the community on stormwater runoff in regards to clean water and stormwater management.	New and existing	Severe storm, flood, hazardous materials	4, 5	DPW	Low	Low	Town Budget	Short Term	High	EAP , NSP	PI, NR
TPT -6	Develop, in cooperation with local fire departments, a primary route evacuation plan for the Town.	Existing	Utility failure, severe winter storm, earthquake, flood, terrorism, wildfire, landslide	3, 4	GIS / FD	Low	Low	Town Budget	Short Term	Medium	LRP	ES
TPT -7	Study feasibility of alternative electric source (e.g., solar) for critical facilities.	Existing	Utility failure,	2, 5	DPW	Medium	Medium	Town Budget	Long Term	Low	LPR	PP



Table 9.21-12. 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
			severe winter storm, earthquake, extreme temperature, flood, terrorism, wildfire, landslide									

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.
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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.
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Costs:

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

Benefits:

- 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 and property.

Mitigation Category:

- Local Plans and Regulations (LPR) – These actions include government authorities, policies, or codes that influence the way land and buildings are 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 impacts 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 stormwater management regulations.
- Property Protection (PP) – Actions that 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 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 protection of essential facilities.



Table 9.21-13. 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
TPT-1	Install back-up power for the Town Hall, Recreation Building, and Library. Study feasibility of using permanent generators versus transfer switches.	1	0	0	1	0	1	0	0	0	1	1	0	1	1	7	Medium
TPT-2	Study the most effective method to provide critical backup services such as internet and phones.	1	0	0	1	0	1	0	0	0	1	1	0	1	0	6	Medium
TPT-3	Develop a maintenance plan for inventoried ash trees.	0	1	0	0	0	1	1	1	0	1	0	1	0	0	6	Medium
TPT-4	Conduct public outreach/education to inform property owners of the importance of identifying and correcting cross connections to eliminate point source pollution.	1	1	1	1	0	1	1	1	0	1	0	1	0	0	9	High
TPT-5	Conduct public outreach/education to educate the community on stormwater runoff in regards to clean water and stormwater management.	1	1	1	1	0	1	1	1	0	1	0	1	0	0	9	High
TPT-6	Develop, in cooperation with local fire departments, a primary route evacuation plan for the Town.	1	0	0	0	0	1	1	0	0	1	0	1	1	1	7	Medium
TPT-7	Study feasibility of alternative electric source (e.g., solar) for critical facilities.	0	0	0	1	0	1	0	1	0	1	0	0	0	0	4	Low

Note: Refer to Section 6, which conveys guidance on conducting prioritization of mitigation actions.



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

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None at this time.

### **9.21.8 Hazard Area Extent and Location**

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Hazard area extent and location maps have been generated for the Town of Pittsford that illustrate areas probably to be impacted within the municipality (see Figures 9.21-1 and 9.21-2 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 Pittsford has significant exposure. These maps also appear in the hazard profiles within Section 5.4, Volume I of this Plan.

### **9.21.9 Additional Comments**

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None at this time.



Figure 9.21-1. Town of Pittsford Landslide and Wildfire Hazard Area Extent and Location Map

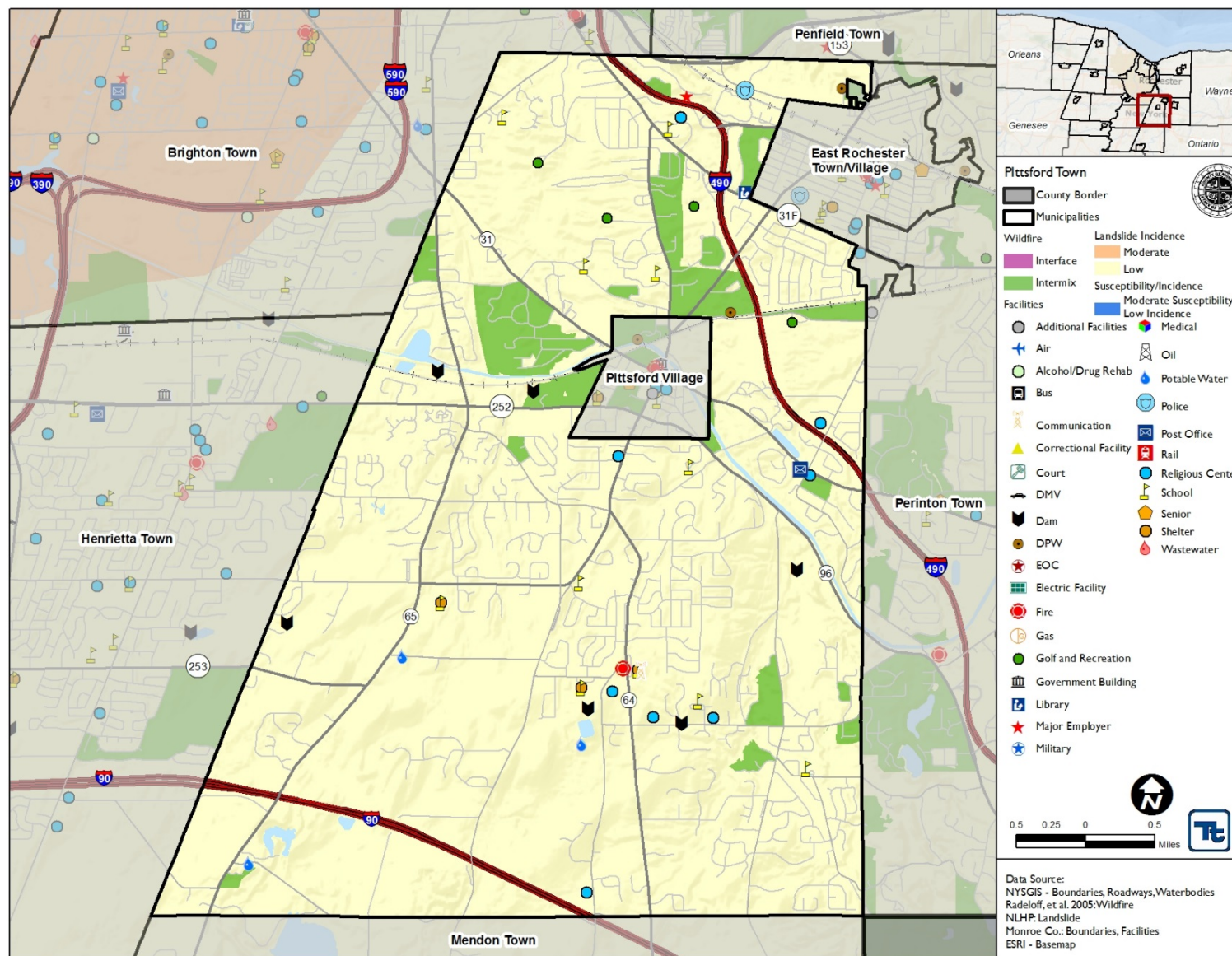
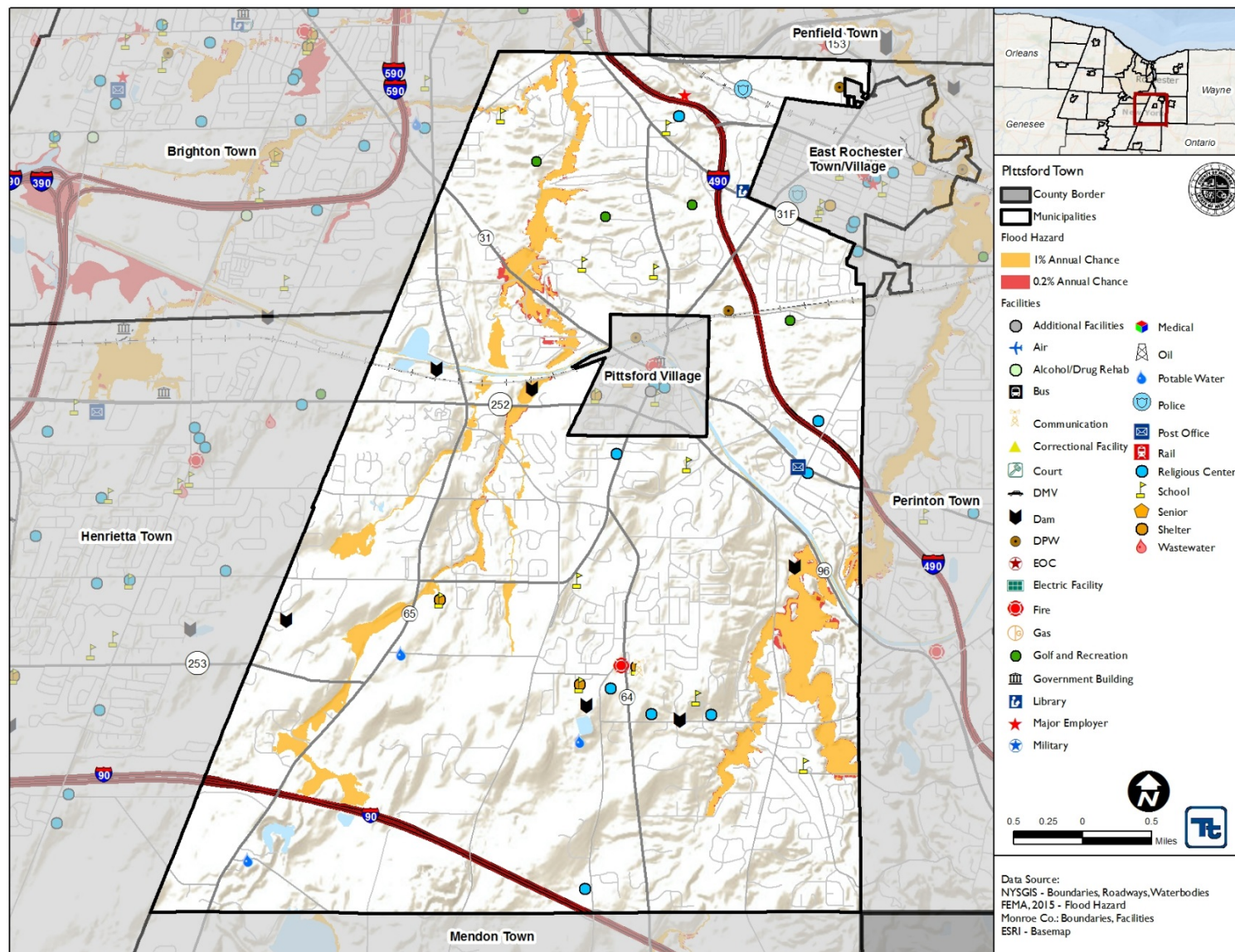




Figure 9.21-2. Town of Pittsford Hazard Area 1% and 0.2% Floodplain Map





<b>Name of Jurisdiction:</b>	Town of Pittsford
<b>Name and Title Completing Worksheet:</b>	
<b>Action Number:</b>	TPT-1
<b>Mitigation Action Name:</b>	Install backup power for the Town Hall, Recreation Building, and Library

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>	Install backup power for the Town Hall, Recreation Building, and Library.
<b>Mitigation Action Type</b>	SIP
<b>Goals Met</b>	Goal 2. Prevent hazards from impacting life, property, and the environment. Goal 3. Protect life, property, and the environment from hazard impacts.
<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>	Medium
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:

TPT-1

Mitigation Action Name:

Install backup power for the Town Hall, Recreation Building, and Library

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	It could provide for continuity of government to service the community.
Property Protection	0	
Cost Effectiveness	0	
Technical	1	It would be technically feasible.
Political	0	
Legal	1	The municipality has authority, as the buildings are owned by the municipality.
Fiscal	0	
Environmental	0	
Social	0	
Administrative	1	The jurisdiction has the personnel and administrative capabilities to implement the action.
Multi-Hazard	1	Eliminate need to relocate essential services for residents, as well as support continuity of government.
Timeline	0	
Agency Champion	1	If determined feasible, it would be a supported project.
Other Community Objectives	1	The action would be a capital improvement, and would support continuity of government.
Total	7	
Priority (High, Medium, or Low)	Medium	