



9.21 Town of Pittsford

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

9.21.1 Hazard Mitigation Planning Team

The Town of Pittsford identified the hazard mitigation plan primary and alternate points of contact and developed this plan over the course of several months with input from many Town departments, including the Fire Marshal, Public Works Department and the Planning and Zoning Department. The Emergency Manager represented the community on the Monroe County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

Table 9.21-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Salvatore Tantalo – Emergency Manager/ Fire Marshal Address: 11 South Main Street, Pittsford, NY 14534 Phone Number: 585-813-4195 Email: stantalo@townofpittsford.org	Name/Title: Paul Schenkel – Commissioner of Public Works Address: 11 South Main Street, Pittsford, NY 14534 Phone Number: 585-248-6250 Email: pschenkel@townofpittsford.org
NFIP Floodplain Administrator	
Name/Title: Paul Schenkel – Commissioner of Public Works Address: 11 South Main Street, Pittsford, NY 14534 Phone Number: 585-248-6250 Email: pschenkel@townofpittsford.org	
Additional Contributors	
Name/Title: Doug DeRue – Director of Planning and Zoning Method of Participation: Provided information and data	

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.

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 (Monroe County HMP, 2017).

According to the U.S. Census, the 2020 population for the Village of Brockport was 25,714, a 8.3 percent decrease from the 2010 Census (28,050). Data from the 2020 American Community Survey 5-year Estimates indicate that 4.9 percent of the population is 5 years of age or younger, 18.9 percent is 65 years of age or older, 6.8 percent have disabilities, and 1.8 percent are below the poverty threshold. 0.4 percent of households are non-English speaking. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

9.21.3 Jurisdictional Capability Assessment and Integration

The Town of Pittsford performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community's adaptive capacity to withstand hazard events.

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 the hazard mitigation analysis, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. The updated mitigation strategy provided an opportunity for the Town of Pittsford to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.

Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Town of Pittsford. The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.



Table 9.21-2. Planning, Legal, and Regulatory Capability and Integration

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Codes, Ordinances, & Regulations				
Building Code	Yes	New York State Uniform Fire Prevention and Building Code	State and Local	Department of Public Works – Building and Code Enforcement
<i>How does this reduce risk?</i> The Town of Pittsford has adopted the New York State Uniform Fire Prevention and Building Code.				
Zoning/Land Use Code	Yes	Chapter 185 – Zoning	Local	Planning, Zoning and Development
<i>How does this reduce risk?</i> This chapter is enacted in order to promote the health, safety, morals and welfare of the residents of the Town of Pittsford and to implement the Comprehensive Plan of the Town. To these ends, this chapter is designed to guide and regulate the orderly growth, development and redevelopment of the Town of Pittsford in accordance with a well-considered plan and with long-term objectives, principles and standards deemed beneficial to the interest and welfare of the people while protecting the established character of existing residential neighborhoods and commercial and business areas and the social and economic well-being of the residents, promote, in the public interest the utilization of land for purposes that best coincide with the character of the Town while reducing and preventing congestion in the public streets and creating an attractive and harmonious community. The chapter provisions of adequate transportation, water, sewerage, flood protection, disaster evacuation, schools, parks, forests, playgrounds, recreational facilities and other public requirements. Maintain historic sites and areas and preserve existing and facilitate the provision of new housing to the community. To protect against overcrowding of land, undue concentration of population in relation to the community facilities existing or available, obstruction of light and air, danger and congestion in travel and transportation or loss of life, health or property from fire, flood, panic or other dangers, and to enforce for the preservation of environmentally sensitive areas and agricultural lands.				
Subdivision Ordinance	Yes	Chapter 175 – Subdivision of Land	Local	Department of Public Works
<i>How does this reduce risk?</i> These regulations for the subdivision of land are promulgated to provide for the orderly growth and coordinated development of the Town and to assure the comfort, convenience, safety, health and welfare of its citizens. Subdivisions will be assessed based conformance with the various parts of the Town's Comprehensive Plan and Zoning Law; recognition of a desirable relationship to the general land form, its topographic and geologic character, to natural drainage, to the recharge of groundwater and to floodplain, environmental and ecological concerns; recognition of desirable standards of subdivision design for pedestrian and vehicular traffic, surface water runoff, utility services and building sites for the land use contemplated, encouragement of flexible subdivision design to promote the planning objectives of the Town's Comprehensive Plan, to realize economies of development and maintenance and to provide for a variety of housing types are desirable adjuncts to the contemplated use, such as parks, recreation areas, school sites, fire stations, public accesses, sidewalks and off-street parking, and to protect and preserve natural resources and the character and historic resources of the Town.				
Site Plan Ordinance	Yes	Chapter 185 - Zoning	Local	Department of Public Works, Planning Board
<i>How does this reduce risk?</i> The Town recognizes site plan requirements for the Local Waterfront Overlay District (LOWD) and Monroe Avenue Transitional Zone (MATZ).				
Stormwater Management Ordinance	Yes	Chapter 127 – Stormwater Management and Erosion and Sediment Control	Local	Department of Public Works
<i>How does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
It is the purpose and intent of this chapter to protect the Town of Pittsford and its residents from adverse effects of stormwater runoff caused by the modification of existing drainage systems during construction, reconstruction or development on one or more parcel of land.				
Post-Disaster Recovery/ Reconstruction Ordinance	No	-	-	-
<i>How does this reduce risk?</i>				
Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<i>How does this reduce risk?</i> In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.				
Growth Management	Yes	Chapter 185 – Zoning	Local	Department of Public Works
<i>How does this reduce risk?</i> The Town of Pittsford incorporated a Growth Management Ordinance into the local zoning.				
Environmental Protection Ordinance	No	-	-	-
<i>How does this reduce risk?</i>				
Flood Damage Prevention Ordinance	Yes	Chapter 95 – Flood Damage Prevention	Local	Department of Public Works, Department of Planning, Zoning and Development
<i>How does this reduce risk?</i> It is the purpose of this chapter to promote the public health, safety and general welfare and to minimize public and private losses due to flood conditions in specific areas by provisions designed to: <ul style="list-style-type: none"> A. Regulate uses which are dangerous to health, safety and property due to water or erosion hazards or which result in damaging increases in erosion or in flood heights or velocities. B. Require that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction. C. Control the alteration of natural floodplains, stream channels and natural protective barriers which are involved in the accommodation of floodwaters. D. Control filling, grading, dredging and other development which may increase erosion or flood damages. E. Regulate the construction of flood barriers which will unnaturally divert floodwaters or which may increase flood hazards to other lands. Qualify for and maintain participation in the National Flood Insurance Program.				
Wellhead Protection	No	-	-	-
<i>How does this reduce risk?</i>				
Emergency Management Ordinance	No	-	-	-
<i>How does this reduce risk?</i>				
Climate Change Ordinance	No	-	-	-
<i>How does this reduce risk?</i>				
Other	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<i>How does this reduce risk?</i>				
Planning Documents				
Comprehensive Plan	Yes	Town of Pittsford Comprehensive Plan – 2019 Update	Local	Department of Public Works
<i>How does this reduce risk?</i>				
The Town of Pittsford Comprehensive Plan provides direction and guidance that will shape the course and substance of future growth in the Town. The Plan describes existing conditions, identifies the Town’s goals and vision for the future, and identifies changing trends in the economy and how to prepare for changes.				
Capital Improvement Plan	No	-	-	-
<i>How does this reduce risk?</i>				
Disaster Debris Management Plan	No	-	-	-
<i>How does this reduce risk?</i>				
Floodplain Management or Watershed Plan	No	-	-	-
<i>How does this reduce risk?</i>				
Stormwater Management Plan	Yes	Stormwater Management Plan	Local	Department of Public Works
<i>How does this reduce risk?</i>				
The Town of Pittsford maintains a Stormwater Management Plan (SWMP). The SWMP consists of six minimum control measures: public education, public participation, control of illicit discharges, erosion control at construction sites, post-construction stormwater treatment, and pollution prevention at municipal facilities.				
Open Space Plan	Yes	Greenprint	Local	Dept. Pub. Works
<i>How does this reduce risk?</i>				
Reduces the overall residential development density				
Urban Water Management Plan	No	-	-	-
<i>How does this reduce risk?</i>				
Habitat Conservation Plan	No	-	-	-
<i>How does this reduce risk?</i>				
Economic Development Plan	No	-	-	-
<i>How does this reduce risk?</i>				
Shoreline Management Plan	No	-	-	-
<i>How does this reduce risk?</i>				
Community Wildfire Protection Plan	No	-	-	-
<i>How does this reduce risk?</i>				
Community Forest Management Plan	No	-	-	-
<i>How does this reduce risk?</i>				
Transportation Plan	Yes	Pittsford Active Transportation Plan – 2020	Local	Department of Planning, Zoning and Development



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<i>How does this reduce risk?</i>				
The Pittsford Active Transportation Plan is a joint plan between the Town and Village of Pittsford that aims to create bicycle and pedestrian friendly networks in the community that will improve mobility and encourage more active and safer bicycle and pedestrian travel for both recreation and transportation purposes.				
Agriculture Plan	Yes	Purchase development rights, Greenprint	-	-
<i>How does this reduce risk?</i>				
Preserves Farmland.				
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
<i>How does this reduce risk?</i>				
Tourism Plan	No	-	-	-
<i>How does this reduce risk?</i>				
Business/ Downtown Development Plan	Yes	Monroe Av Design Guidelines April 2002	Local	Dept Pub Works
<i>How does this reduce risk?</i>				
Orderly smart development of commercial Zoning District				
Other	No	-	-	-
<i>How does this reduce risk?</i>				
Response/Recovery Planning				
Comprehensive Emergency Management Plan	No	-	-	-
<i>How does this reduce risk?</i>				
Continuity of Operations Plan	No	-	-	-
<i>How does this reduce risk?</i>				
Substantial Damage Response Plan	No	-	-	-
<i>How does this reduce risk?</i>				
Strategic Recovery Planning Report	No	-	-	-
<i>How does this reduce risk?</i>				
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-
<i>How does this reduce risk?</i>				
Post-Disaster Recovery Plan	No	-	-	-
<i>How does this reduce risk?</i>				
Public Health Plan	No	-	-	-
<i>How does this reduce risk?</i>				
Other	No	-	-	-
<i>How does this reduce risk?</i>				



Development and Permitting Capability

The table below summarizes the capabilities of the Town of Pittsford to oversee and track development.

Table 9.21-3. Development and Permitting Capability

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?	Yes	
<ul style="list-style-type: none"> If you issue development permits, what department is responsible? 	N/A	Department of Public Works
<ul style="list-style-type: none"> If you do not issue development permits, what is your process for tracking new development? 	N/A	-
Are permits tracked by hazard area? (For example, floodplain development permits.)	No	-
Do you have a buildable land inventory?	Yes	Geographic Information Systems
<ul style="list-style-type: none"> If you have a buildable land inventory, please describe 	N/A	-
Describe the level of build-out in your jurisdiction.	N/A	85% residential and 100% Commercial

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Pittsford and their current responsibilities that contribute to hazard mitigation.

Table 9.21-4. Administrative and Technical Capabilities

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Administrative Capability		
Planning Board	Yes	<p>The Planning Board is a legally constituted board responsible for the review and approval or denial of development applications in the Town, which primarily relate to new homes (Subdivision Approval) or are related to construction or expansion of business (Site Plan Approval).</p> <p>The Planning Board has seven members appointed for a seven-year term, with no term limits.</p>
Zoning Board of Adjustment	Yes	<p>The Zoning Board of Appeals is a legally constituted board responsible for making decisions on any requests to vary from the zoning ordinances. It also may hear and decide upon any appeals from any order, decision, or determination of any official charged with the enforcement of the zoning laws.</p> <p>The Zoning Board has seven members appointed for a seven-year term, with no term limits.</p>
Planning Department	Yes	<p>The Planning, Zoning and Development Department reviews the coordination, management and processing of various forms of development and land use proposals within the Town. This includes:</p> <ul style="list-style-type: none"> Residential subdivisions



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
		<ul style="list-style-type: none"> Non-residential site plans for commercial, light industrial, and office uses. Special permits for restaurants, colleges and churches
Mitigation Planning Committee	No	-
Environmental Board/Commission	Yes	This board serves in an advisory capacity, reporting to the Town Board and the Planning Board on matters pertaining to environmental issues within the Town. Members also participate as stewards for the Town in an annual Conservation Easement Monitoring Program of PDR (Purchase of Development Rights) and Open Space properties within the Town.
Open Space Board/Committee	Yes	See Environmental Board/Commission
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	<p>Public Works Administration handles much of the budgetary and planning aspects for projects within the Town of Pittsford. Through this consolidated approach the Town is able to deliver services to the residents of Pittsford in an efficient and timely fashion.</p> <p>The Department of Public Works is comprised of the following:</p> <ul style="list-style-type: none"> Highway Sewer Parks Building Maintenance Planning, Zoning, and Development Code Enforcement
Construction/Building/Code Enforcement Department	Yes	The Code Enforcement Office is primarily responsible for the issuance of permits and the enforcement of State and local building codes, Town policy, Temporary Activities, New York State Fire Prevention Code, Energy Code as well as various local municipal codes and ordinances.
Emergency Management/Public Safety Department	Yes	See Public Works/Highway
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	No	-
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	See Public Works/Highway
Mutual aid agreements	Yes	Department of Public Works issues an agreement with participating local municipalities and emergency services
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	No	-
Technical/Staffing Capability		
Planners or engineers with knowledge of land development and land management practices	Yes	Department of Public Works
Engineers or professionals trained in building or infrastructure construction practices	Yes	Department of Public Works
Planners or engineers with an understanding of natural hazards	Yes	Department of Public Works
Staff with expertise or training in benefit/cost analysis	Yes	Department of Finance



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Professionals trained in conducting damage assessments	Yes	Building and Code Enforcement
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	Yes	Information Technology – Geographic Information (GIS)
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	No	-
Emergency Manager	No	-
Grant writer(s)	N/A	<i>Consider the following:</i> Are data and maps from the HMP used to support documentation in grant applications?
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-

Fiscal Capability

The table below summarizes financial resources available to the Town of Pittsford.

Table 9.21-5. 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	Unknown
Stormwater utility fee	Unknown
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Unknown
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	Unknown
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	Yes
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	No

Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Town of Pittsford.

Table 9.21-6. Education and Outreach Capabilities

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	Yes	Newsletter weekly to Town employees – Quarterly mailed to residents



Outreach Resources	Available? (Yes/No)	Comment:
Personnel skilled or trained in website development	Yes	Department has the responsibility for long range scheduling of technology equipment replacement, computer systems planning, computer software support and computer hardware maintenance.
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	Yes	Facebook, Twitter
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	No	-
Natural disaster/safety programs in place for schools	No	-
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? • If yes, please describe.	No	-

Community Classifications

The table below summarizes classifications for community programs available to the Town of Pittsford.

Table 9.21-7. Community Classifications

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	Pittsford Fire 3	
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	Yes	Registered	None
Storm Ready Certification	-	(Monroe County is StormReady)	
Firewise Communities classification	No	-	-
Other	-	-	-

Note:

- N/A Not applicable
- Unavailable

Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.





- Weak: Capacity does not exist or could use substantial improvement.

Table 9.21-8. Adaptive Capacity

Hazard	Adaptive Capacity - Strong/Moderate/Weak
Disease Outbreak	Weak
Drought	Moderate
Earthquake	Weak
Extreme Temperature	Moderate
Flood	Strong
Hazardous Materials	Weak
Infestation and Invasive Species	Weak
Landslide	Weak
Severe Storm	Strong
Severe Winter Storm	Strong
Wildfire	Weak

9.21.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Pittsford.

Table 9.21-9. NFIP Summary

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Town of Pittsford	82	15	\$116,032	1	-	0	26

Source: FEMA Region 2 2015

Note (1): Policies, claims, repetitive loss, and severe repetitive loss statistics provided by FEMA Region 2, and are current as of June 30, 2015. The total number of repetitive loss properties does not include severe repetitive loss properties. Number of claims represents claims closed by June 30, 2015.

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

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

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Town of Pittsford.



Table 9.21-10. NFIP Summary

NFIP Topic	Comments
Flood Vulnerability Summary	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> Do you maintain a list of properties that have been damaged by flooding? 	Irondequoit Creek and its Town of Pittsford tributaries as shown on FEMA mapping. The Town does not maintain a list of properties that have been damaged by flooding at this time.
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)? 	No
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> If so, state what projects are underway. 	No
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> How many were declared for recent flood events in your jurisdiction? 	Substantial Damage determinations are made by the Town Building Inspector/Town Engineer. None have been declared for recent flood events.
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> If there are mitigation properties, how were the projects funded? 	None
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> If not, state why. 	Yes, there remains several mapping and analysis opportunities for FEMA to update their hydraulic modeling.
NFIP Compliance	
What local department is responsible for floodplain management?	Department of Public Works
Are any certified floodplain managers on staff in your jurisdiction?	Floodplain administration is supported by the Town Engineer, Town Planner, Town Building Inspector, and Code Enforcement Officers.
Do you have access to resources to determine possible future flooding conditions from climate change?	Not currently.
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> If so, what type of assistance/training is needed? 	Yes, General floodplain management education is always welcomed.
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	The Town provides mapping/GIS, code interpretations, permit review, inspections, record keeping, and when possible, individual education outreach.
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	Evaluation of existing home value, value of proposed improvements, as well as project score.
What are the barriers to running an effective NFIP program in the community, if any?	Unknown
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> If so, state the violations. 	Unknown
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	The most recent Community Assistance Visit was 1/28/2019 and the most recent Community Assistance Contact was not documented.
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> What is the date that your flood damage prevention ordinance was last amended? 	Chapter 95 of Town Code, adopted 3-1-2011



NFIP Topic	Comments
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> If exceeds, in what ways? 	Yes, Pittsford Town Code meets the Federal and State requirements.
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	The Building, Planning, Zoning, and Code Enforcement departments along with the Town’s regulatory boards, are completely integrated into meeting and managing floodplain requirements. Project site plans, subdivisions, and building permits are evaluated for floodplain impacts.
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	The Town has investigated and found the CRS program to be too cost prohibitive and cumbersome to be of significant benefit to the Town.

9.21.5 Evacuation, Sheltering, Temporary Housing, and Permanent Housing

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

Evacuation Routes and Procedures

The Town of Pittsford identified the following routes and procedures to evacuate residents prior to and during an event.

- The Town did not identify any evacuation routes

Sheltering

The Town of Pittsford has identified the following designated emergency shelters within the Town.

Table 9.21-11. Designated Emergency Shelters

Site Name	Address	Capacity (# of people)	Accommodates Pets?	ADA Compliant?	Backup Power?	Types of Medical Services Provided	Other Services Provided
None identified							

Temporary Housing

Each jurisdiction must identify sites for placement of temporary housing units to house residents displaced by a disaster. The Town of Pittsford has identified the following sites suitable for placing temporary housing units.

Table 9.21-12. Temporary Housing Locations

Site Name	Site Address	Capacity (number of sites)	Type	Infrastructure / Utilities Available (water, electric, septic, etc.)	Actions Required to Ensure Conformance with the NYS Uniform Fire Prevention and Building Code
None identified					



Permanent Housing

Structures located in the regulatory floodplain might need to be relocated due to high flood risk or new properties must be built once severely damaged properties are demolished. Jurisdictions must identify suitable sites currently owned by the jurisdiction and potential sites under private ownership that meet applicable local zoning requirements and floodplain laws. The Town of Pittsford has identified the following areas suitable for relocating homes outside of the floodplain.

Table 9.21-13. Permanent Housing Locations

Site Name	Site Address	Capacity (number of sites)	Type	Infrastructure / Utilities Available (water, electric, septic)	Actions Required to Ensure Conformance with the NYS Uniform Fire Prevention and Building Code
None identified					

9.21.6 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.21-14 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

Table 9.21-14. Recent and Expected Future Development

Type of Development	2017		2018		2019		2020		2021		2022	
Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	401	0	388	0	354	0	423	0	485	0	Final statistics for 2022 not available for this HMP update.	
Multi-Family												
Other (commercial, mixed-use, etc.)	48	0	36	2	46	0	33	0	50	0		
Total New Construction Permits Issued	449	0	424	2	400	0	456	0	535	0		
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
Recent Major Development and Infrastructure from 2017 to Present												
Schottland YMCA	Commercial	N/A		2300 W. Jefferson Rd		None		Completed				
Pittsford Town Court	Commercial	N/A		3750 Monroe Ave		None		Completed				
Town of Pittsford Sewer Dept	Infrastructure	N/A		3899 Monroe Ave		WUI		Completed				
Heather Heights Nursing Home	Commercial	N/A		160 W. Jefferson Rd		None		Completed				
The Highlands Nursing Home	Commercial	N/A		100 Hahnemann Trail		None		Completed				
The Highlands Nursing Home	Commercial	N/A		500 Hahnemann Trail		None		Completed				



Type of Development	2017	2018	2019	2020	2021	2022
Cloverwood Nursing Home	Commercial	N/A	1 Sinclair Dr	None	Completed	
RG&E Station 56	Infrastructure	N/A	170 W. Jefferson Rd	SFHA	Construction in progress	
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years						
None anticipated						

SFHA Special Flood Hazard Area (1% flood event)

* Only location-specific hazard zones or vulnerabilities identified.

9.21.7 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Town of Pittsford’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Maps were generated only for those hazards that can be identified clearly using mapping techniques and technologies and for which the Town of Pittsford has significant exposure. The maps also show the location of potential new development, where available.

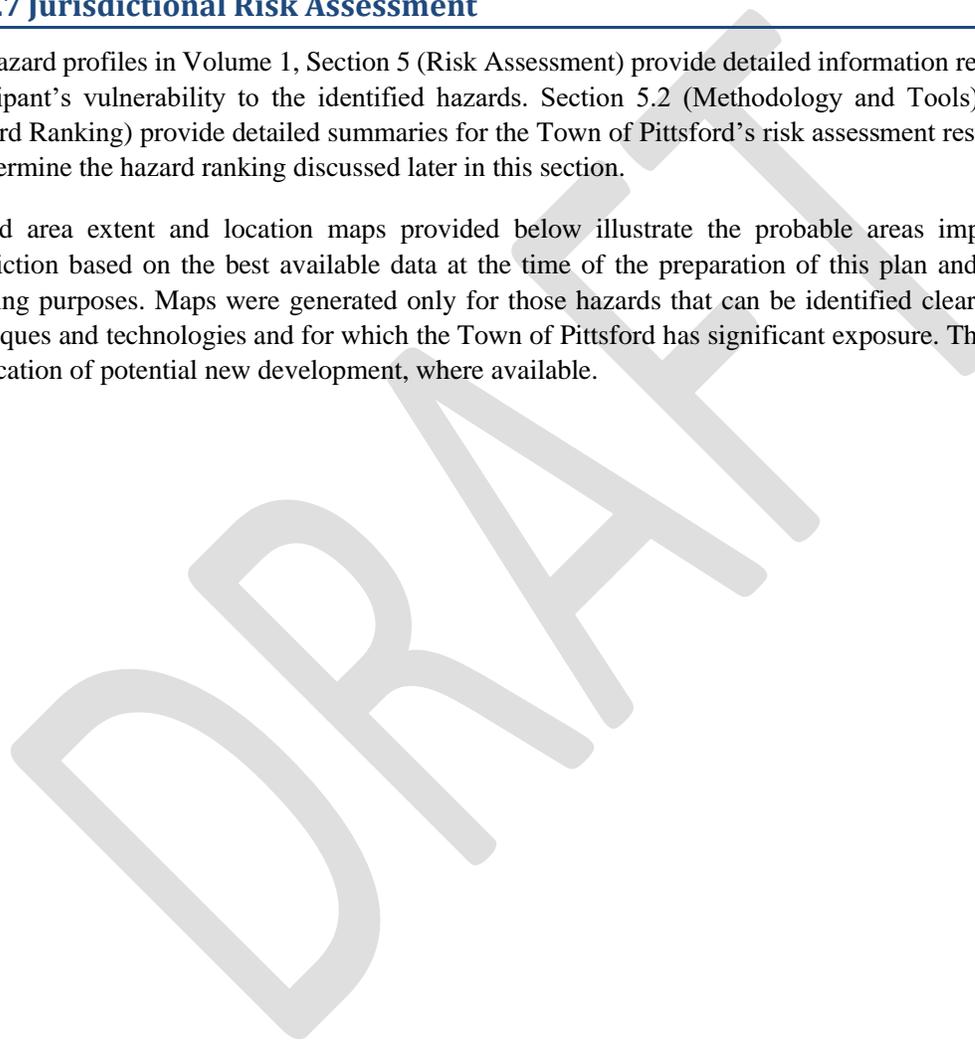




Figure 9.21-1. Town of Pittsford Hazard Area Extent and Location Map 1

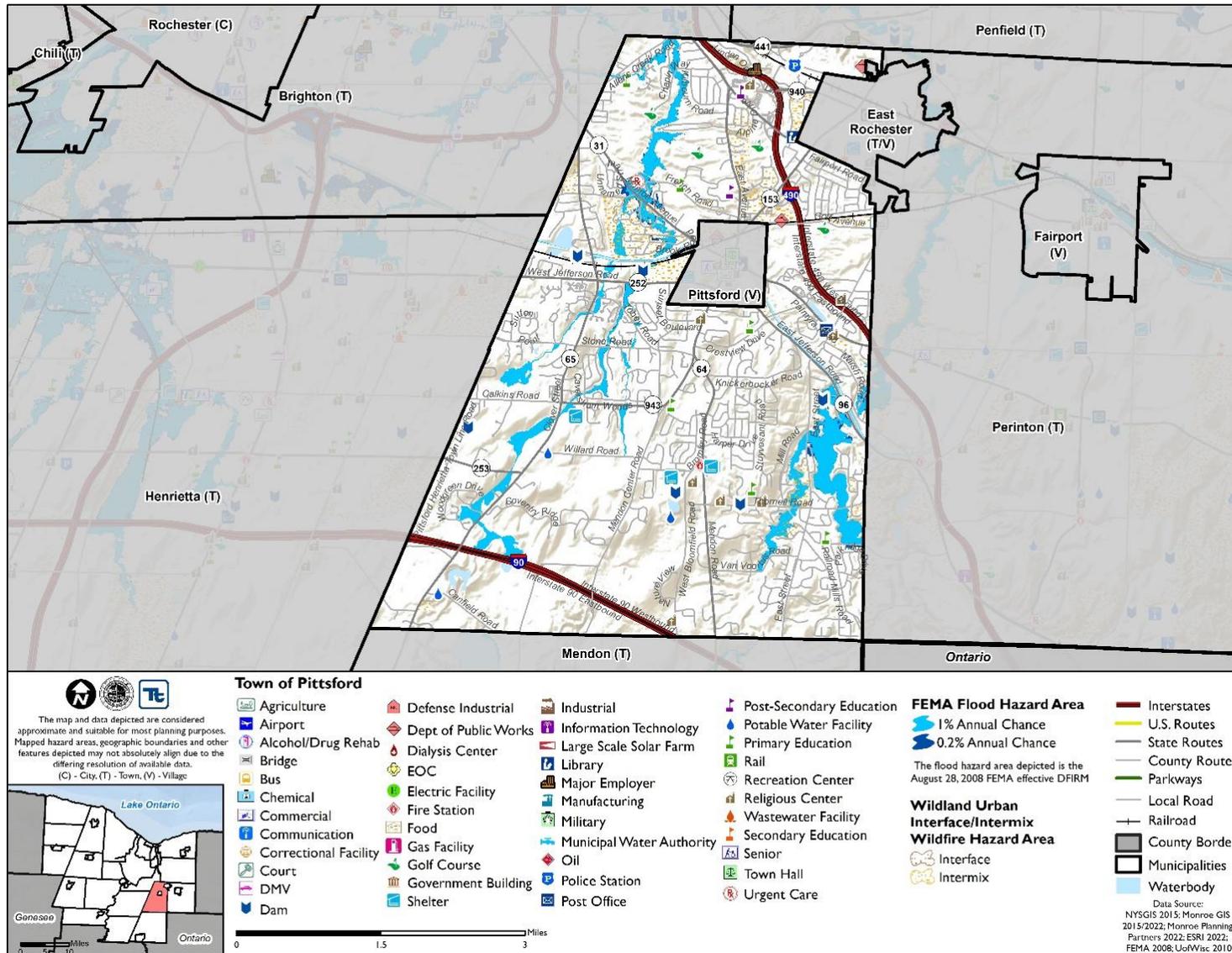
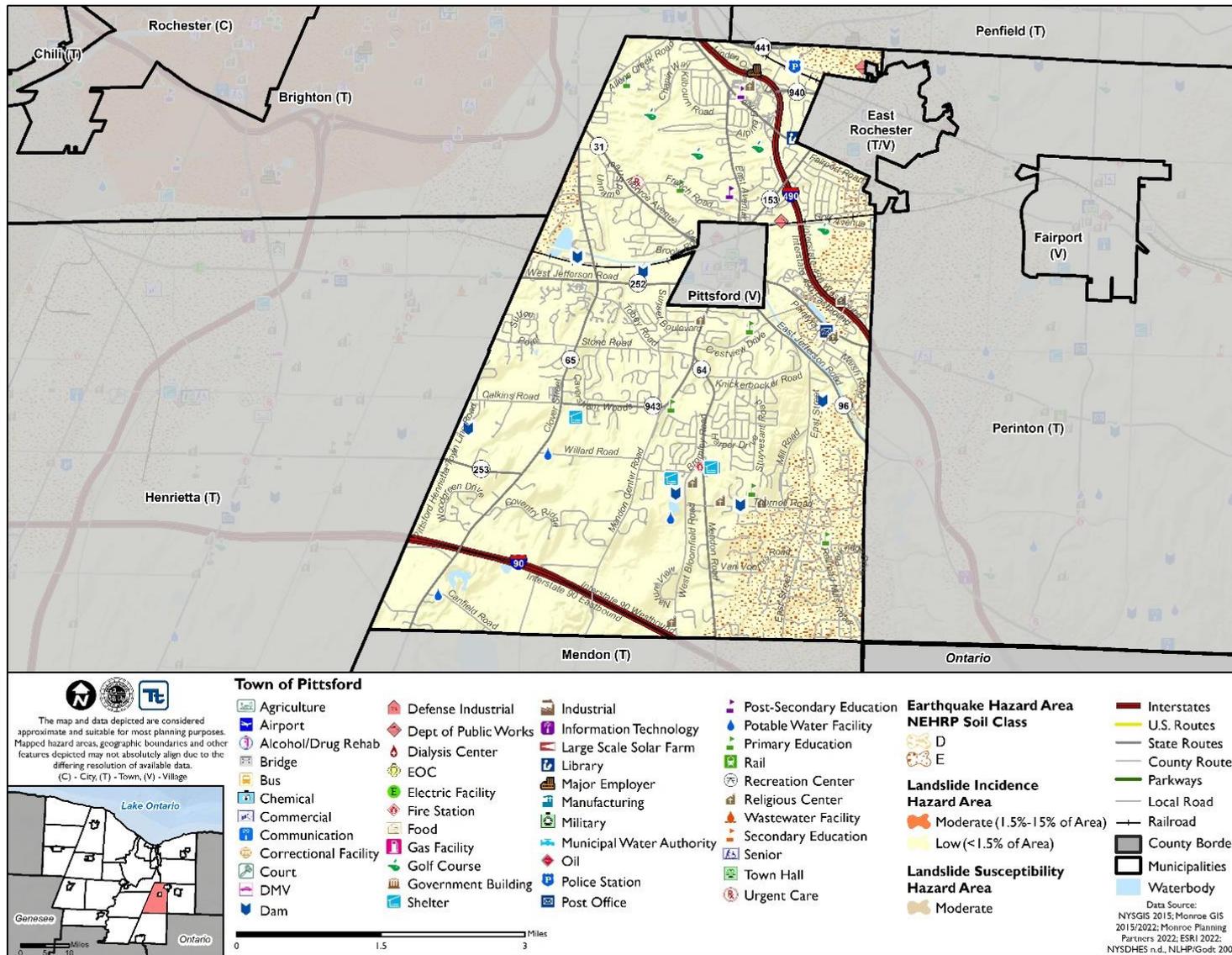




Figure 9.21-2. Town of Pittsford Hazard Area Extent and Location Map 2





Hazard Event History

Monroe County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Town of Pittsford’s history of federally-declared (as presented by FEMA) and significant hazard events [as presented in NOAA-National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.21-15 provides details regarding municipal-specific loss and damages the Town experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

Table 9.21-15. Hazard Event History

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
March 8, 2017	High Wind	No	Unusually deep low pressure moved from northwest Ontario across Hudson Bay. The low brought strong winds to the entire region with sustained winds up to 49 mph and wind gusts as high as 81 mph. A significant amount of damage resulted with 100,000 without power in Monroe County alone.	Electric utilities, roadway and culvert damage from downed trees, damage to town buildings from falling trees.
May 2-August 6, 2017	Flooding (DR-4348)	Yes	During the first six months of 2017, more than twice the normal amount of water accumulated on Lake Ontario. The lake reached a record level of 248.95 feet. Flooding began in early May and continued into early fall.	Although the County was impacted, the Town did not report damages
May-June 2019	Lakeshore Flood	No	Excessive runoff into the Ottawa River Basin in Canada restricted the outlet of Lake Ontario. This combined with above normal precipitation into the Lake Ontario Basin, record levels on the Great Lakes above Lake Ontario, and higher than normal flows into the lake from the Niagara River pushed the lake to well above normal levels.	Although the County was impacted, the Town did not report damages
October 31, 2019	High Wind and Flooding	No	A deepening area of consolidated low pressure tracked across the region. This system brought record breaking Halloween rains, damaging wind gusts, and a small Lake Ontario seiche	Although the County was impacted, the Town did not report damages
January 20, 2020 – Present	Covid-19 Pandemic (EM-3434) (DR-4480)	Yes	Between March 1, 2020 and July 20, 2022, Monroe County reported 171,851 confirmed cases of COVID-19, and 1,660 total fatalities.	Although the County was impacted, the Town did not report damages
June 2022	High Wind	No	Wind event	Damage to Town buildings and roadways.

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)





N/A Not applicable

Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Town of Pittsford’s risk assessment results and data used to determine the hazard ranking.

Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each municipality ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Pittsford. The Town of Pittsford reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Town indicated the following:

- The Town agreed with the calculated hazard rankings.

Table 9.21-16. Hazard Ranking Input

Disease Outbreak	Drought	Earthquake	Extreme Temperature	Flood	Hazardous Materials
Low	Medium	Low	Medium	High	Low
Infestation and Invasive Species	Landslide	Severe Storm	Severe Winter Storm	Wildfire	
Low	Low	High	High	Low	

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction

Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus-MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.





Table 9.21-17. Potential Flood Losses to Critical Facilities

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
University of Rochester Urgent Care	Urgent Care	X	X	2023-Town of Pittsford-001	-
Allen’s Creek East Branch Drainage Project Dam	Dam	X	X	2023-Town of Pittsford-002	-

Source: FEMA 2008; Monroe County GIS 2022

Identified Issues

After review of the Town of Pittsford’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Town of Pittsford identified the following vulnerabilities within their community:

- The UofR Urgent Care is a critical facility that is located in the 1-percent flood zone. As a critical facility, exposure to flooding threatens the potential loss of critical services.
- Allen’s Creek East Branch Dam is a critical facility in the 100-year floodplain and experiences flooding during heavy storm events. Due to the proximity of the Erie Canal and Heather Heights Assisted Living, the creek can cause flooding in both areas.
- The Allen’s Creek Dams’ main purpose is flood risk reduction to the Erie Canal and Heather Heights Assisted Living Center. Flooding takes place in this area.
- Stormwater runoff and overflow can contaminate drinking and ground water.
- The Town critical facilities do not have alternate electric sources (e.g., solar power) which can decrease continuity of operations during hazard events.
- While major events that result in substantial damage of structures are rare, municipalities need to have official procedures in place to inspect structures, make determinations, and provide for appeals.
- The Town does not have current inventory of Ash Trees on local lands and does not have a maintenance plan in place for trees and any invasive species impacting Ash Trees. Emerald ash borer (EAB) is an invasive species for ash tree. Death of trees from EAB can damage properties, down trees, and knock out power lines.
- The Town does not have official evacuation procedures, designated shelters, and has not identified temporary or permanent housing locations.

9.21.8 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.

Past Mitigation Initiative Status

The following table indicates progress on the community’s mitigation strategy identified in the 2017 HMP. Actions that are in progress are carried forward and combined with new actions as part of this plan update and are included in the tables with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the ‘Capability Assessment’ earlier in this annex.



Table 9.21-18. Status of Previous Mitigation Actions

Project #	Project	Hazard(s) Addressed	Brief Summary of the Original Problem	Responsible Party	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success (if project status is complete)		<ol style="list-style-type: none"> Next Steps Project to be included in 2023 HMP or Discontinue If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). If discontinue, explain why.
						Cost	Level of Protection	
Town of Pittsford-1	Install back-up power for the Town Hall, Recreation Building, and Library. Study feasibility of using permanent generators versus transfer switches.	All Hazards		DPW	Complete			<ol style="list-style-type: none"> Discontinue Complete
Town of Pittsford-2	Study the most effective method to provide critical backup services such as internet and phones.	All Hazards		IT, DPW	Ongoing Capability			<ol style="list-style-type: none"> Discontinue In the process of finishing up on all IT equipment having UPCs-battery back up, Will be finished by the end of 2023
Town of Pittsford-3	Develop a maintenance plan for inventoried ash trees.	Infestation		DPW	In Progress			<ol style="list-style-type: none"> Include in 2023 HMP Plan and inventory for ash trees on town owned land
Town of Pittsford-4	Conduct public outreach / education to inform property owners of the importance of identifying and correcting cross connections to eliminate point source pollution.	Severe Storm, Hazardous Materials, Earthquake		DPW	Ongoing Capability			<ol style="list-style-type: none"> Discontinue Ongoing project with residents
Town of Pittsford-5	Conduct public outreach / education to educate the community on stormwater runoff in regards to clean water	Severe Storm, Flood, Hazardous Materials		DPW	No Progress			<ol style="list-style-type: none"> Include in 2023 HMP Community engagement activates partner with Monroe County Stormwater Coalition and Town website for information



Additional Mitigation Efforts

In addition to the mitigation initiatives completed in Table 9.21-18, the Town of Pittsford identified the following mitigation efforts completed since the last HMP:

- None identified

Proposed Hazard Mitigation Initiatives for the HMP Update

The Town of Pittsford participated in a mitigation action workshop in October 2022 and was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 ‘Selecting Appropriate Mitigation Measures for Floodprone Structures’ (March 2007) and FEMA ‘Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards’ (January 2013).

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide-range of activities and mitigation measures selected.

Table 9.21-19. Analysis of Mitigation Actions by Hazard and Category

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Disease Outbreak	X	X	-	-	X	X	-	-	-	X
Drought	X	X	-	-	X	X	-	-	-	X
Earthquake	X	X	-	-	X	X	-	-	-	X
Extreme Temperature	X	X	-	-	X	X	-	-	-	X
Flood	X	X	X	X	X	X	X	X	X	X
Hazardous Materials	X	X	-	-	X	X	-	-	-	X
Infestation and Invasive Species	X	X	X	-	X	X	-	X	-	X
Landslide	X	X	-	-	X	X	-	-	-	X
Severe Storm	X	X	X	-	X	X	-	X	-	X
Severe Winter Storm	X	X	X	X	X	X	X	X	-	X
Wildfire	X	X	-	-	X	X	-	-	-	X

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.21-20).

The table below summarizes the specific mitigation initiatives the Town of Pittsford would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



Table 9.21-20. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Town of Pittsford -001	University of Rochester Urgent Care Flood Vulnerability	2, 3	Flood	<p>Problem: The UofR Urgent Care is a privately owned critical facility that is in the 1% flood zone. As a critical facility, exposure to flooding threatens the potential loss of critical services.</p> <p>Solution: The Town will work with the UofR Urgent Care, Floodplain Administrator, and emergency services to conduct education and outreach to inform the property owners on the risks of being in the floodplain and how to be prepared for flooding events and other</p>	Yes	None	1 year	Town DPW, Floodplain Administrator	Staff time	Ensures continuity of operations of Urgent Care, and increase public awareness of exposure to being in the floodplain	Municipal Budget	High	EAP	PP, PI



Table 9.21-20. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Town of Pittsford-002	Allen's Creek East Branch Drainage Project Dam	2, 3	Flood	<p>Problem: Allen's Creek East Branch Dam is a critical facility in the 100-year floodplain and experiences flooding during heavy storm events. Due to the proximity of the Erie Canal and Heather Heights Assisted Living, the creek can cause flooding in both areas.</p> <p>Solution: The Town Engineer will complete an engineering analysis on the Allen's Creek Dam to identify measures of protection within the 100 and 500-year flood area.</p>	Yes	None	Within 5 years	Town DPW, Engineer, Floodplain Administrator	High	Dam failure avoided, meet safety requirements, protection to the 0.2% flood area	BRIC, PDM, HMGP, FMA, Municipal Budget	High	SIP	PP, SP
2023-Town of		3, 4	Flood	Problem: The Allen's Creek	Yes	None	1 year	Town Engineer,	Staff time	Will identify improvement	BRIC, HMGP,	High	NSP	NR, SP



Table 9.21-20. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
Pittsford-003	Allen's Creek Flood Study			<p>Dam's main purpose is flood risk reduction to the Erie Canal and Heather Heights Assisted Living Center. Flooding takes place in this area.</p> <p>Solution: The Town will work with the Town Engineer, and Floodplain Administrator to conduct a flood study to determine the cause of flooding and potential solutions to reduce the occurrence of flooding. The Town will identify and implement cost effective improvements to the dam.</p>				Floodplain Administrator		measures to the dam and reduce risk of flooding	PDM, FMA, Municipal Budget		SIP, LPR	
2023-Town of Pittsford-004	Stormwater Management Education & Outreach	4	Severe Storm, Flood,	<p>Problem: Stormwater runoff and overflow can</p>	No	None	Within 1 year	Town Public Works	Staff time	Increase public awareness of	Municipal Budget	High	EAP	PI





Table 9.21-20. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
			Hazardous Materials	contaminate drinking and ground water. Solution: The Town will work with the local schools, DPW, and emergency services to conduct public education and outreach to inform citizens on how the stormwater management process works and in what ways home and business owners can be prepared.						stormwater management				
2023-Town of Pittsford-005	Critical Facilities Alternate Electric	2, 3, 4	All Hazards	Problem: The Town critical facilities do not have alternate electric sources (e.g., solar power) which can decrease continuity of operations during hazard events. Solution: The Town will	No	None	Within 3 years	Town Public Works	High	Increase efficiency of critical facilities	HMGP, Municipal Budget	High	LPR, SIP	PP



Table 9.21-20. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				work with the Town Engineer to determine which critical facilities can maintain solar panels. The Town will also work with the planning department to identify the Town code and if it allows for solar panel installation at critical facilities sites. If the Town Code allows solar installation, a battery system will need to be installed at the critical facilities to maintain power to solar panels.										
2023-Town of Pittsford-006	Substantial Damage Procedures	1, 2, 3	All Hazards	Problem: While major events that result in substantial damage of structures are rare,	No	None	Within 5 years	FPA	Staff time	Meet NFIP requirements, improved floodplain administration	Municipal budget	High	LPR	PP, PR



Table 9.21-20. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>municipalities need to have official procedures in place to inspect structures, make determinations, and provide for appeals.</p> <p>Solution: The municipality will develop official procedures for Substantial Damage and Substantial Improvement determinations.</p>										
2023-Town of Pittsford -007	Ash Tree Maintenance Plan	3, 5	Infestation, Severe Storm, Severe Winter Storm	<p>Problem: The Town does not have current inventory of Ash Trees on local lands and does not have a maintenance plan in place for trees and any invasive species impacting Ash Trees. Emerald ash borer is an invasive species for ash</p>	No	None	Within 3 years	Town DPW, Town Board	\$10,000, staff time	Decrease impacts of invasive species on Ash Trees	HMGP, Municipal Budget	High	NSP	NR, PP





Table 9.21-20. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				tree. Death of trees from EAB can damage properties, down trees, and knock out power lines. Solution: The Town will work with the DPW and Town Board to develop an Ash Tree Maintenance Plan that will identify process and procedures for maintaining non-infected and infected Ash Trees on Town lands.										
2023-Town of Pittsford-008	Evacuation, Sheltering, Temporary and Permanent Housing	1, 3	All Hazards	Problem: The Town does not have official evacuation procedures, designated shelters, and has not identified temporary or permanent housing locations.	No	None	1 year	OEM, Administration, Monroe County	Staff time	Emergency planning improved	Town budget	High	LPR	ES



Table 9.21-20. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				Solution: The Town will work with the County to identify appropriate emergency shelters and locations for temporary and permanent housing. The Town will also develop official evacuation procedures.										

Notes:

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

Acronyms and Abbreviations:

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

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.

Benefits:

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

Critical Facility:

Yes Critical Facility located in 1% floodplain





Mitigation Category:

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

CRS Category:

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



The prioritization criteria provided in Volume 1, Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the 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.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

Table 9.21-21. Summary of Prioritization of Actions

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2023-Town of Pittsford-001	University of Rochester Urgent Care Flood Vulnerability	1	1	0	1	1	1	1	1	0	1	0	0	1	1	10	High
2023-Town of Pittsford-002	Allen’s Creek East Branch Drainage Project Dam	1	1	0	1	1	1	0	1	1	1	0	0	1	1	10	High
2023-Town of Pittsford-003	Allen’s Creek Flood Study	0	1	1	0	1	1	1	1	1	1	0	1	1	0	10	High
2023-Town of Pittsford-004	Stormwater Management Education & Outreach	1	0	1	0	0	0	1	1	1	1	1	1	1	0	9	High
2023-Town of Pittsford-005	Critical Facilities Alternate Electric	1	0	1	1	0	1	0	1	1	1	1	1	1	0	10	High
2023-Town of Pittsford-006	Substantial Damage Procedures	0	1	1	1	1	1	1	1	1	1	1	0	1	1	12	High
2023-Town of Pittsford-007	Ash Tree Maintenance Plan	1	1	1	1	0	1	0	1	1	0	1	1	1	0	11	High
2023-Town of Pittsford-008	Evacuation, Sheltering, Temporary and Permanent Housing	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



9.21.9 Action Worksheets

The following action worksheets were developed by the Town of Pittsford to aid in the submittal of grant applications to support the funding of high priority proposed actions.

DRAFT



Action Worksheet			
Project Name:	Allen's Creek East Branch Drainage Project Dam		
Project Number:	2023-Town of Pittsford-002		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood		
Description of the Problem:	Allen's Creek East Branch Dam is a critical facility in the 100-year floodplain and experiences flooding during heavy storm events. Due to the proximity of the Erie Canal and Heather Heights Assisted Living, the creek can cause flooding in both areas.		
Action or Project Intended for Implementation			
Description of the Solution:	The Town Engineer will complete an engineering analysis on the Allen's Creek Dam to identify measures of protection within the 100 and 500-year flood area.		
Is this project related to a Critical Facility or Lifeline?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
(If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	500-year flood	Estimated Benefits (losses avoided):	Dam failure avoided, meet safety requirements, protection to the 0.2% flood area
Useful Life:	20 years	Goals Met:	2, 3
Estimated Cost:	High	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 5 years
Estimated Time Required for Project Implementation:	5 years	Potential Funding Sources:	BRIC, HMGP, PDM, FMA, Municipal Budget
Responsible Organization:	Engineer, DPW, Floodplain Administrator	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation Planning
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Current problem continues
	Repair Only	\$100,000	Will not meet Dam Safety requirements
	Remove Dam	\$1.5 million	Dam cannot be removed for safety reason.
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Allen's Creek East Branch Project Dam	
Project Number:	2023-Town of Pittsford-002	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project protects life from dam failure
Property Protection	1	Project protects property from dam failure
Cost-Effectiveness	0	
Technical	1	
Political	1	There is public support for the project
Legal	1	The Town has the legal authority to complete the project
Fiscal	0	The project requires funding support
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	0	Flood
Timeline	0	Within 5 years
Agency Champion	1	Engineer, DPW, Floodplain Administrator
Other Community Objectives	1	
Total	10	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Allen's Creek Flood Study		
Project Number:	2023-Town of Pittsford-003		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood		
Description of the Problem:	The Allen's Creek Dam's main purpose is flood risk reduction to the Erie Canal and Heather Heights Assisted Living Center. Flooding takes place in this area		
Action or Project Intended for Implementation			
Description of the Solution:	The Town will work with the Town Engineer, and Floodplain Administrator to conduct a flood study to determine the cause of flooding and potential solutions to reduce the occurrence of flooding. The Town will identify and implement cost effective improvements to the dam.		
Is this project related to a Critical Facility or Lifeline?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
(If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	TBD by flood study	Estimated Benefits (losses avoided):	Will identify improvement measures to the dam and reduce risk of flooding
Useful Life:	TBD by flood study	Goals Met:	3, 4
Estimated Cost:	Staff time	Mitigation Action Type:	Local Plans and Regulations, Structure and Infrastructure Projects, Natural Systems Protection
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	1 year
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	BRIC, HMGP, PDM, FMA, Municipal Budget
Responsible Organization:	Town Engineer, Floodplain Administrator	Local Planning Mechanisms to be Used in Implementation if any:	Hazard mitigation planning
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Current problem continues
	Elevate Assisted Living Center	\$500,000	Costly and may not solve problem
	Buyout surrounding properties	High	Costly, negative social impacts, resident displacement
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Allen's Creek Flood Study	
Project Number:	2023-Town of Pittsford-003	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	.
Property Protection	1	Reduction in flooding risk to assisted living properties.
Cost-Effectiveness	1	
Technical	0	Technically feasibility of solutions unknown
Political	1	
Legal	1	The Town has the legal authority to conduct the project.
Fiscal	1	
Environmental	1	
Social	1	Project would reduce flooding impacts.
Administrative	1	
Multi-Hazard	0	Flood
Timeline	1	1 year to complete study
Agency Champion	1	Town Engineer, Floodplain Administrator
Other Community Objectives	0	
Total	10	
Priority (High/Med/Low)	High	