



## 15. TOWN OF TORREY

This jurisdictional annex to the Yates County Hazard Mitigation Plan (HMP) provides information to assist public and private sectors in the Town of Torrey with reducing losses from future hazard events. This annex is not guidance of what to do when a disaster occurs; its focus is on actions that can be implemented prior to a disaster to reduce or eliminate damage to property and people. The annex presents a general overview of Torrey, describes who participated in the planning process, assesses Torrey's risk, vulnerability, and capabilities, and outlines a strategy for achieving a more resilient community.

### 15.1 HAZARD MITIGATION PLANNING TEAM

The Town of Torrey identified primary and alternate HMP points of contact and developed this plan over the course of several months, with input from many Town departments. The Town Supervisor represented the community on the Yates County HMP Planning Partnership and supported the local planning process 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.

Table 15-1 summarizes Town officials who participated in the development of the annex and in what capacity. Additional documentation of the Town's planning activities through Planning Partnership meetings is included in Volume I.

***Table 15-1. Hazard Mitigation Planning Team***

Primary Point of Contact	Alternate Point of Contact
Name/Title: Peter Martini, Town Supervisor Address: PO Box 280, 56 Geneva Street, Dresden, NY 14441 Phone Number: (315) 382-2419 Email: <a href="mailto:martinivms@gmail.com">martinivms@gmail.com</a>	Name/Title: Josh Wood/ Deputy Highway Superintendent Address: PO Box 280, 56 Geneva Street, Dresden, NY 14441 Phone Number: 315-536-6376 Email: <a href="mailto:townclerk@townoftorrey.com">townclerk@townoftorrey.com</a>
<b><i>National Flood Insurance Program Floodplain Administrator</i></b>	
Name/Title: Dwight James/Town Code and Zoning Officer Address: PO Box 280, 56 Geneva Street, Dresden, NY 14441 Phone Number: 315-536-6376 Email: <a href="mailto:djames1912@gmail.com">djames1912@gmail.com</a>	
<b><i>Additional Contributors</i></b>	
Name/Title: Peter Martini, Town Supervisor Method of Participation: Provided key input in the planning process	



Primary Point of Contact	Alternate Point of Contact
Name/Title: Josh Wood, Deputy Highway Superintendent Method of Participation: Provided key input in the planning process	
Name/Title: Dwight James, Town Code and Zoning Officer Method of Participation: Provided key input in the planning process	
Name/Title: Grant Downs, Town Councilperson Method of Participation: Provided key input in the planning process and attended meetings	
Name/Title: Brice Henderson, Town Councilperson Method of Participation: Provided key input in the planning process and attended meetings	

## 15.2 COMMUNITY PROFILE

The Town of Torrey is located in northeastern section of Yates County, New York. The Town is bordered on the north by the Town of Benton, on the east by Seneca Lake and the Yates-Seneca County line, on the south by the Town of Milo, and on the west by the Towns of Benton and Milo. The Village of Dresden is located entirely within the Town's boundaries in the east-central part of the town. The Towns of Romulus and Ovid lie directly east across Seneca Lake from Torrey (Town of Torrey Planning Board 2008).

The Town covers about 40 square miles, making it one of the smaller towns in Yates County. The highest points in the Town are along its western boundary; elevations in these areas rise to about 940 feet above sea level in the northwest corner of the Town and are over 900 feet above sea level along much of the Town's western boundary with Benton. The Town's far southwest corner also tops 920 feet above sea level. From these high points, the land slopes gently down to the east until it reaches Seneca Lake; the elevation of the lake is typically in the range of 444 – 446 feet above sea level. Numerous small gullies with streams flowing through them are readily apparent in the slopes just above the lakeshore (Town of Torrey Planning Board 2008).

The Keuka Lake Outlet bisects the Town on a northeast/southwest axis. The Outlet is a stream that drains the waters of Keuka Lake into Seneca Lake through a deep gorge. This gorge was first formed about 10,000 years ago and has been steadily eroding ever since. The Outlet was once the industrial hub of Yates County and was lined with mills and dams, which were served first by a canal and later by a railroad. Today, a scenic recreational trail known as the Keuka Outlet Trail runs from Dresden westward into Penn Yan (Town of Torrey Planning Board 2008). According to the U.S. Census, the 2020 population for Torrey was 1,006.

Research has shown that some populations are at greater risk from hazard events because of decreased resources or physical abilities. These populations can be more susceptible to hazard events based on a number of factors including their physical and financial ability to react or respond during a hazard, and the location and construction quality of their housing. Data from the 2017-2021 American Community Survey indicates that 8-percent of the population is 5 years of age or



younger, 20.6-percent is 65 years of age or older, 4.1-percent is non-English speaking, 14-percent is below the poverty threshold, and 16.9-percent is considered disabled.

## 15.3 JURISDICTIONAL CAPABILITY ASSESSMENT AND INTEGRATION

Torrey performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume I describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment for this annex includes analyses of the following:

- Planning and regulatory capabilities
- Development and permitting capabilities
- Administrative and technical capabilities
- Fiscal capabilities
- Education and outreach capabilities
- Classification under various community mitigation programs
- Adaptive capacity to withstand hazard events

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 the hazard mitigation analysis, planning and /policy documents were reviewed and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. Development of an updated mitigation strategy provided an opportunity for Torrey to identify opportunities for integrating mitigation concepts into ongoing Town procedures.

### 15.3.1 Planning and Regulatory Capability and Integration

Table 15-2 summarizes the planning and regulatory tools that are available to Torrey.

**Table 15-2. Planning 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)	Responsible Person, Department or Agency
<b>CODES, ORDINANCES, &amp; REGULATIONS</b>				
<b>Building Code</b>	Yes	2015 ICC Codes	State and Local	CEO
How has or will this be integrated with the HMP and how does this reduce risk?				



	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)	Responsible Person, Department or Agency
This local law provides for the administration and enforcement of the New York State Uniform Fire Prevention and Building Code (the Uniform Code) and the State Energy Conservation Construction Code (the Energy Code) in this Town. This local law is adopted pursuant to section 10 of the Municipal Home Rule Law. Except as otherwise provided in the Uniform Code, other state law, or other section of this local law, all buildings, structures, and premises, regardless of use or occupancy, are subject to the provisions this local law.				
<b>Zoning/Land Use Code</b>	Yes	Adopted by Town Board on March 8, 2011; amendments made May 13, 2014	Local	ZBA
How has or will this be integrated with the HMP and how does this reduce risk? The intent of this Chapter is to establish comprehensive controls for the development of land in the Town of Torrey, and it is enacted in order to promote and protect the health, safety, and general welfare of the residents of and visitors to the Town.				
<b>Subdivision Code</b>	Yes	Local Law Number 1 of 2013	Local	Planning Board
How has or will this be integrated with the HMP and how does this reduce risk? The purpose of this Law is to promote the goals of the Town of Torrey Comprehensive Plan and to: A. protect the public health, safety, and welfare; B. promote orderly development in the Town; C. secure adequate provision for streets, water supply, wastewater, drainage and flood control; D. preserve open space and farmland; E. provide lands for recreation and other public uses.				
<b>Site Plan Code</b>	Yes	Town Zoning Law §98.100-113	Local and County	Zoning Officer / ZBA
How has or will this be integrated with the HMP and how does this reduce risk? Where site plan approval is required elsewhere in the regulations of the Town for a development or activity, the site plan review shall include review of the adequacy, location, arrangement, size, design, and general site compatibility.				
<b>Stormwater Management Code</b>	No	-	-	-
How has or will this be integrated with the HMP and how does this reduce risk? Not applicable				
<b>Post-Disaster Recovery/ Reconstruction Code</b>	No	-	-	-
How has or will this be integrated with the HMP and how does this reduce risk? Not applicable				
<b>Real Estate Disclosure Requirements</b>	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
How has or will this be integrated with the HMP and how does this reduce risk? 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.				
<b>Growth Management</b>	No	-	-	-
How has or will this be integrated with the HMP and how does this reduce risk? Not applicable				



	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)	Responsible Person, Department or Agency
<b>Environmental Protection Ordinance(s)</b>	Yes	Local Law Number 4 of 2009	Local	Town Board
<p>How has or will this be integrated with the HMP and how does this reduce risk?</p> <p>The purpose of this article is to control construction or other land disturbance on or near any steep slope located in the Town of Torrey. This article is intended to:</p> <ol style="list-style-type: none"> <li>1) Protect the health, safety and welfare of the public by maintaining and protecting the natural terrain, waterways, wetlands and vegetation</li> <li>2) Maintain the stability of steep slopes by preventing surface erosion, creep and sudden slope failure due to activities including but not limited to clear cutting</li> <li>3) Prevent flooding and stormwater runoff</li> <li>4) Preserve areas of wildlife habitat</li> <li>5) Promote goals and objectives of the Town of Torrey Comprehensive Plan</li> </ol>				
<b>Flood Damage Prevention Ordinance</b>	Yes	Local Law #1 of 2010; adopted on April 13, 2010.	Federal, State, County and Local	Zoning Officer
<p>How has or will this be integrated with the HMP and how does this reduce risk?</p> <p>It is the purpose of this local law to promote the public health, safety, and general welfare, and to minimize public and private losses due to flood conditions in specific areas by:</p> <ol style="list-style-type: none"> <li>(1) regulating uses which are dangerous to health, safety and property due to water or erosion hazards, or which may result in unsafe increases in erosion or in flood heights or velocities;</li> <li>(2) requiring that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction;</li> <li>(3) controlling the alteration of natural floodplains, stream channels, and natural protective barriers which are involved in the accommodation of flood waters;</li> <li>(4) controlling filling, grading, dredging and other development which may increase erosion or flood damages;</li> <li>(5) regulating the construction of flood barriers which will unnaturally divert flood waters or which may increase flood hazards to other lands, and;</li> <li>(6) qualifying for and maintaining participation in the National Flood Insurance Program.</li> </ol>				
<b>Wellhead Protection</b>	No	-	-	-
<p>How has or will this be integrated with the HMP and how does this reduce risk?</p> <p>Not applicable</p>				
<b>Emergency Management Ordinance</b>	No	-	-	-
<p>How has or will this be integrated with the HMP and how does this reduce risk?</p> <p>Not applicable</p>				
<b>Climate Change Ordinance</b>	No	-	-	-
<p>How has or will this be integrated with the HMP and how does this reduce risk?</p> <p>Not applicable</p>				
<b>Other: Freeboard</b>	Yes	State mandated BFE+2 for all construction, both residential and non-residential	State, Local	Zoning Officer
<p>How has or will this be integrated with the HMP and how does this reduce risk?</p>				



	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)	Responsible Person, Department or Agency
Freeboard compensates for unknown factors that may contribute to flood heights that are greater than the height calculated for a selected size flood and floodway conditions, such as wave action and bridge openings.				
<b>PLANNING DOCUMENTS</b>				
<b>General/Comprehensive Plan</b>	Yes	2008	Local	Town Board
How has or will this be integrated with the HMP and how does this reduce risk? Comprehensive plans serve as the policy document for decision making regarding land use issues in cities, towns, and villages. They provide the framework for future public and private investment and policy development. Many disparate forces influence land uses in a municipality: the local and regional economy; county, state and federal agencies and regulations; local laws; developers; and the actions of individual property owners. By clearly articulating the Town of Torrey's land use policies, this Comprehensive Plan will assist municipal officials in guiding these influences and shaping their community's future.				
<b>Capital Improvement Plan</b>	No	-	-	-
How has or will this be integrated with the HMP and how does this reduce risk? Not applicable				
<b>Disaster Debris Management Plan</b>	No	-	-	-
How has or will this be integrated with the HMP and how does this reduce risk? Not applicable				
<b>Floodplain Management or Watershed Plan</b>	No	-	-	-
How has or will this be integrated with the HMP and how does this reduce risk? Not applicable				
<b>Stormwater Management Plan</b>	No	-	-	-
How has or will this be integrated with the HMP and how does this reduce risk? Not applicable				
<b>Open Space Plan</b>	No	-	-	-
How has or will this be integrated with the HMP and how does this reduce risk? Not applicable				
<b>Urban Water Management Plan</b>	No	-	-	-
How has or will this be integrated with the HMP and how does this reduce risk? Not applicable				
<b>Habitat Conservation Plan</b>	No	-	-	-
How has or will this be integrated with the HMP and how does this reduce risk? Not applicable				
<b>Economic Development Plan</b>	No	-	-	-
How has or will this be integrated with the HMP and how does this reduce risk? Not applicable				
<b>Community Wildfire Protection Plan</b>	No	-	-	-
How has or will this be integrated with the HMP and how does this reduce risk?				



	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)	Responsible Person, Department or Agency
Not applicable				
<b>Community Forest Management Plan</b>	No	-	-	-
How has or will this be integrated with the HMP and how does this reduce risk? Not applicable				
<b>Transportation Plan</b>	No	-	-	-
How has or will this be integrated with the HMP and how does this reduce risk? Not applicable				
<b>Agriculture Plan</b>	No	-	-	-
How has or will this be integrated with the HMP and how does this reduce risk? Not applicable				
<b>Climate Action/ Resilience/Sustainability Plan</b>	No	-	-	-
How has or will this be integrated with the HMP and how does this reduce risk? Not applicable				
<b>Tourism Plan</b>	No	-	-	-
How has or will this be integrated with the HMP and how does this reduce risk? Not applicable				
<b>Business/ Downtown Development Plan</b>	No	-	-	-
How has or will this be integrated with the HMP and how does this reduce risk? Not applicable				
<b>Other</b>	No	-	-	-
How has or will this be integrated with the HMP and how does this reduce risk? Not applicable				
<b>RESPONSE/RECOVERY PLANNING</b>				
<b>Emergency Operations Plan</b>	Yes	Yates County CEMP 2017 Update	County	YC EMS
How has or will this be integrated with the HMP and how does this reduce risk? The CEMP covers short term response and long-term recovery to address communications, evacuation, and housing necessary for the identified hazards.				
<b>Continuity of Operations Plan</b>	No	-	-	-
How has or will this be integrated with the HMP and how does this reduce risk? Not applicable				
<b>Substantial Damage Response Plan</b>	No	-	-	-
How has or will this be integrated with the HMP and how does this reduce risk? Not applicable				



	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)	Responsible Person, Department or Agency
<b>Threat and Hazard Identification and Risk Assessment</b>	No	-	-	-
How has or will this be integrated with the HMP and how does this reduce risk? Not applicable				
<b>Post-Disaster Recovery Plan</b>	No	-	-	-
How has or will this be integrated with the HMP and how does this reduce risk? Not applicable				
<b>Public Health Plan</b>	No	-	-	-
How has or will this be integrated with the HMP and how does this reduce risk? Not applicable				
<b>Other</b>	No	-	-	-
How has or will this be integrated with the HMP and how does this reduce risk? Not applicable				

### 15.3.2 Development and Permitting Capability

Table 15-3 summarizes the capabilities of Torrey to oversee and track development.

**Table 15-3. Development and Permitting Capability**

	Yes/No	Comment
Do you issue development permits? <ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	Yes	The Code Enforcement Officer and Town Planning Board issue development permits. It starts with the Code Enforcement Officer then routed as necessary to engineering, planning/zoning boards, of officials
Are permits tracked by hazard area? (For example, floodplain development permits.)	Yes	At the time of this plan update, the Town does not have properties located in the SFHA.
Do you have a buildable land inventory? <ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	Yes	The level of build-out in the Town is minimal; development is concentrated around Seneca Lake.
Describe the level of buildout in your jurisdiction.	N/A	Minimal: Concentrated development along Seneca Lake

### 15.3.3 Administrative and Technical Capability

Table 15-4 summarizes potential staff and personnel resources available to Torrey and their current responsibilities that contribute to hazard mitigation.



**Table 15-4. Administrative and Technical Capabilities**

<b>Resources</b>	<b>Available? (Yes/No)</b>	<b>Comment (available staff, responsibilities, support of hazard mitigation)</b>
<b>ADMINISTRATIVE CAPABILITY</b>		
Planning Board	Yes	Town of Torrey Planning Board
Zoning Board of Adjustment	Yes	The Board is a 5-member board who meet the 1st Monday if the month.
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	The Highway Department takes care of Torrey's 21 miles of paved roads and 8 1/2 miles of dirt road
Construction/Building/Code Enforcement Department	Yes	Dwight L. James, Town of Torrey Code Enforcement Officer / Zoning Officer is available by cell
Emergency Management/Public Safety Department	No	-
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	No	-
Mutual aid agreements	Yes	Neighboring communities
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	-
<b>TECHNICAL/STAFFING CAPABILITY</b>		
Planners or engineers with knowledge of land development and land management practices	No	-
Engineers or professionals trained in building or infrastructure construction practices	No	-
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	-



Resources	Available? (Yes/No)	Comment (available staff, responsibilities, support of hazard mitigation)
Personnel skilled or trained in GIS and/or Hazus applications	No	-
Staff that work with socially vulnerable populations or underserved communities	No	-
Environmental scientists familiar with natural hazards	No	-
Surveyors	No	-
Emergency manager	No	-
Grant writers	No	-
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)		

### 15.3.4 Fiscal Capability

Table 15-5 summarizes financial resources available to Torrey.

**Table 15-5. Fiscal Capabilities**

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

### 15.3.5 Education and Outreach Capability

Table 15-6 summarizes the education and outreach resources available to Torrey.

**Table 15-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment
Public information officer or communications office	No	-
Personnel skilled or trained in website development	No	-
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	Yes	Yates County 911 Center: This workforce is responsible for monitoring, dispatching, and coordinating a variety of emergency services within Yates County to include fire / rescue, emergency medical services, and law enforcement. Agencies within Yates County directly serviced by the Communications center include 13 fire departments and their associated first responder units, 5 ambulance services, an Advanced Life Support (ALS) unit from Soldiers and Sailors Hospital in Penn Yan, Medical evacuation helicopter services, and several law enforcement agencies to include the Yates County Sheriff's Office, Penn Yan Police Department, New York State Police in Dundee, New York State Environmental Conservation Police, Court Security, and Animal Control.
Natural disaster/safety programs in place for schools	No	-
Organizations that conduct outreach to socially vulnerable populations and underserved populations	No	-
Public outreach mechanisms / programs to inform citizens on natural hazards, risk, and ways to protect themselves during such events	No	-

### 15.3.6 Community Classifications

Table 15-7 summarizes classifications for community programs available to Torrey.

**Table 15-7. Community Classifications**

Program	Participating? (Yes/No)	Classification	Date Classified
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	Dresden Fire Department – 4/4X	N/A
National Weather Service StormReady Certification	Yes	Yates Co NOAA Storm Ready	Recertified – August 7, 2018
Firewise Communities classification	No	-	-
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	-	-
Other: Organizations with mitigation focus (advocacy group, non-government)	Yes	SLPWA, SWIO,	Yes

N/A = Not applicable

— = Unavailable

### 15.3.7 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 2022). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. Table 15-8 summarizes the adaptive capacity for each identified hazard of concern and the Town’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 15-8. Adaptive Capacity**

Hazard	Adaptive Capacity - Strong/Moderate/Weak
Dam Failure	Moderate
Disease Outbreak	Moderate
Drought	Moderate
Extreme Temperatures	Moderate
Flood	Moderate
Harmful Algal Bloom	Moderate
Hazardous Materials	Strong



Hazard	Adaptive Capacity - Strong/Moderate/Weak
Landslide	Moderate
Severe Storm	Moderate
Severe Winter Storm	Moderate
Transportation Accidents	Moderate
Utility Failure	Moderate

## 15.4 NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the National Flood Insurance Program (NFIP). The floodplain administrator listed in Table 2-1 is responsible for maintaining this information.

### 15.4.1 NFIP Statistics

Table 15-9 summarizes the NFIP policy and claim statistics for Torrey.

**Table 15-9. Torrey NFIP Summary of Policy and Claim Statistics**

# Policies	14
# Claims (Losses)	5
Total Loss Payments	\$7,321
# Repetitive Loss Properties (NFIP definition) <sup>a</sup>	0
# Repetitive Loss Properties (FMA definition) <sup>b</sup>	0
# Severe Repetitive Loss Properties <sup>c</sup>	0

- NFIP Definition of Repetitive Loss: The NFIP defines a repetitive loss property as any insurable building for which two or more claims of more than \$1,000 were paid by the NFIP within any rolling 10-year period since 1978.*
- FMA Definition of Repetitive Loss: FEMA's Flood Mitigation Assistance (FMA) program defines a repetitive loss property as any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.*
- Definition of Severe Repetitive Loss: A residential property covered under an NFIP flood insurance policy and: (a) That has at least four NFIP claim payments over \$5,000 each, and the cumulative amount of such claims payments exceeds \$20,000; or (b) For which at least two separate claims payments have been made with the cumulative amount of the building portion of such claims exceeding the market value of the building. At least two of the claims must have occurred within any 10-year period, more than 10 days apart.*

Source: FEMA 2024

Note: Statistics current as of April 2024



## 15.4.2 Flood Vulnerability Summary

Table 15-10 provides a summary of the NFIP program in Torrey.

**Table 15-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction.	Properties located along the shoreline of Seneca Lake are prone to flooding.
Do you maintain a list of properties that have been damaged by flooding?	Yes, a list is maintained.
Do you maintain a list of property owners interested in flood mitigation?	No
How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?	No list is maintained because none of the property owners who have been flooded previously are interested in mitigating their properties at the time of this update
Are any RiskMAP projects currently underway in your jurisdiction? If so, state what projects are underway.	None at this time
How do you make Substantial Damage determinations?	An updated Floodplain map (August 2023) has been drafted and public comment solicited
How many Substantial Damage determinations were declared for recent flood events in your jurisdiction?	Floodplain manager reviews affected properties.
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? If there are mitigation properties, how were the projects funded?	There have been two (2) properties were declared for in recent flood events- Hanson Harbor Road and Log Cabin Road
Do your flood hazard maps adequately address the flood risk within your jurisdiction? If not, state why.	When the new maps are finalized, they will address the flood risk
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	Zoning Officer
Are any certified floodplain managers on staff in your jurisdiction?	No
Do you have access to resources to determine possible future flooding conditions from climate change?	Yes, Yates County Emergency Services Department
Does your floodplain management staff need any assistance or training to support its floodplain management program? If so, what type of assistance/training is needed?	Yes, further assistance and training is needed in the continuation of floodplain management and risk assessment.



NFIP Topic	Comments
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	Permit review by the Code Enforcement Review, as well as Planning Board and Zoning Board of Appeals approval if necessary, and outside engineering consultation
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	Code Enforcement Officer enforcing the permit process and Planning Board Review
What are the barriers to running an effective NFIP program in the community, if any?	Funding/Staffing/Training
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? If so, state the violations.	No
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	June 23, 2015
What is the local law number or municipal code of your flood damage prevention ordinance?	Flood Damage is included in Local Law No. 1-2010.
What is the date that your flood damage prevention ordinance was last amended?	The April 13, 2010, local law No. 4 - 2009 was amended on February 11, 2014, by local law No. 2 - 2014 with a steep slope Regulation
Does your floodplain management program meet or exceed minimum requirements? If exceeds, in what ways?	Yes, the Town of Torrey building ordinances meets the minimum requirements set by FEMA and New York State. This includes the 2007 state requirement of residential and non-residential (new construction and substantial improvements to have their lowest floor (including basement) elevated two (2) feet above the base flood elevation
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?	Yes, the Town of Torrey Planning Board and the Zoning Board review variances to existing building codes
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	The Town of Torrey adopts a Hazardous Mitigation Plan and partners with Yates County in its countywide Hazardous Mitigation Plan to identify and seek funding for mitigation projects.

## 15.5 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. Recent and expected future development trends, including major residential/commercial development and major infrastructure development, are summarized in Table 15-11 through Table 15-13.

**Table 15-11. Number of Building Permits for New Construction Issued Since the Previous HMP**

	New Construction Permits Issued			
	Single Family	Multi-Family	Other (commercial, mixed-use, etc.)	Total
<b>2019</b>				
Total Permits	0	0	0	0
Permits within SFHA	0	0	0	0
<b>2020</b>				
Total Permits	0	0	0	0
Permits within SFHA	0	0	0	0
<b>2021</b>				
Total Permits	1	0	4	5
Permits within SFHA	0	0	0	0
<b>2022</b>				
Total Permits	4	0	1	5
Permits within SFHA	0	0	0	0
<b>2023</b>				
Total Permits	3	0	0	3
Permits within SFHA	0	0	0	0

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

**Table 15-12. Recent Major Development and Infrastructure from 2018 to Present**

Property or Development Name	Type of Development	# of Units / Structures	Location (address and/or block and lot)	Known Hazard Zones*	Description / Status of Development
Greenidge Generation	Commercial	3 original bld	PO Box 187 590 Plant Rd Dresden, NY 14441	Air pollution Cooling Water Water Extraction	Developed
Penn Yan Solar Farm	Commercial	2 new bld (2023)	Hanson Road	Erosion	Developed
Norbutt Solar Farm	Commercial	One 15-megawatt solar farm	Hanson Road	Erosion	Developed

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





**Table 15-13. Known or Anticipated Major Development and Infrastructure in the Next Five Years**

Property or Development Name	Type of Development	# of Units / Structures	Location (address and/or block and lot)	Known Hazard Zones*	Description / Status of Development
Water District 1	Res	55 units	Serenity Road area	Harmful Algal Blooms	Under Construction
Water District 2	Res	50 units	Perry Point area	Harmful Algal Blooms	Engineering Feasibility
Back Achers	Comm	Campground Expansion	2906 Wood Road, Himrod, NY 14842	Erosion	Permit Processing

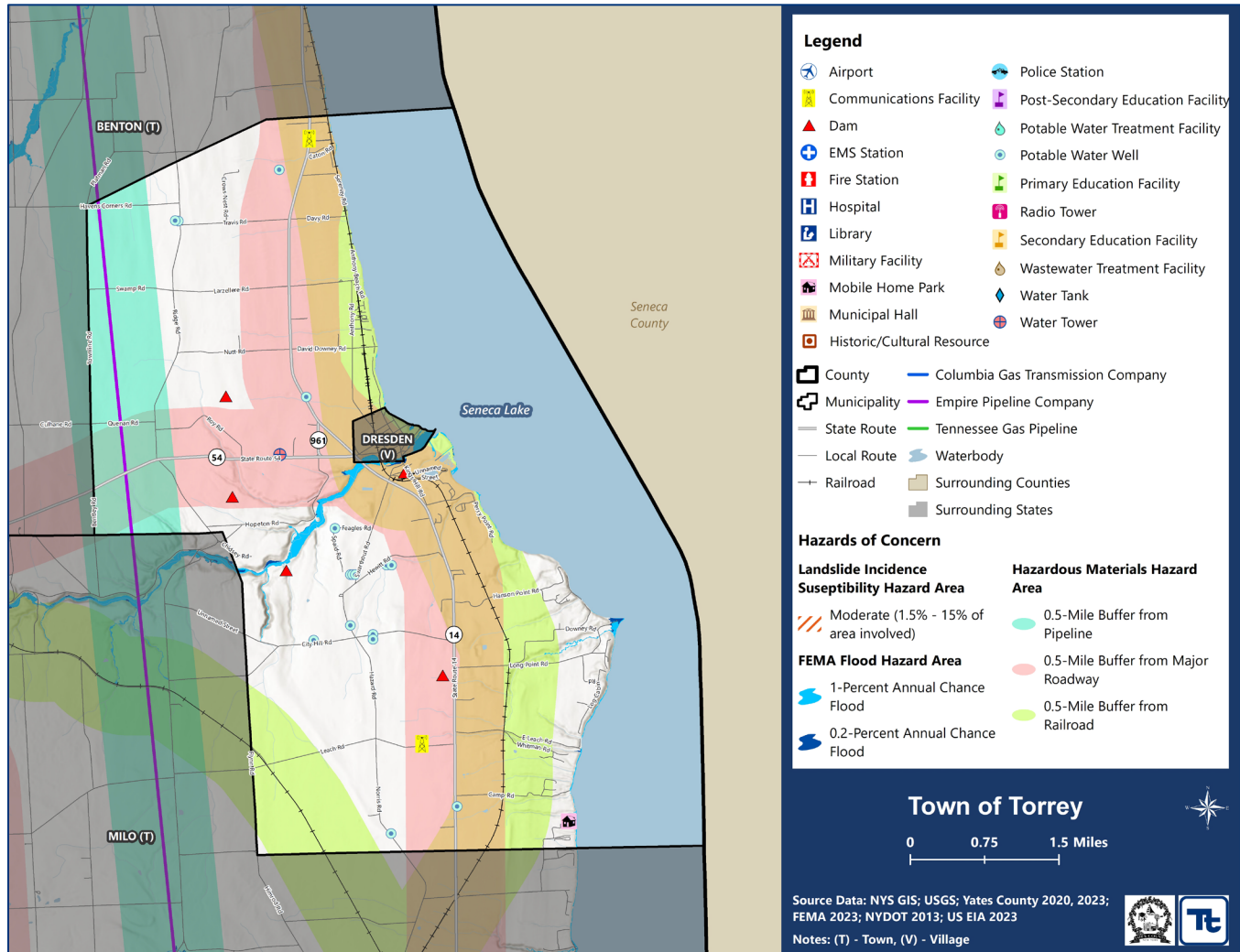
## 15.6 JURISDICTIONAL RISK ASSESSMENT

The hazard profiles in Volume I provide detailed information regarding each planning partner's vulnerability to the identified hazards, including summaries of Torrey's risk assessment results and data used to determine the hazard ranking. Key local risk assessment information is presented below.

### 15.6.1 Hazard Area

The hazard area map shown in Figure 15-1 illustrates the probable hazard areas impacted within the Town. This map is based on the best available data at the time of the preparation of this plan and is adequate for planning purposes. Maps are provided only for hazards that can be identified clearly using mapping techniques and technologies and for which Torrey has significant exposure. The map shows the location of potential new development, where available.

**Figure 15-1. Torrey Hazard Area Extent and Location Map**



Note: The shown flood hazard area is limited to the FEMA-defined flood hazard areas. Areas of localized flooding are not reflected in the above Figure.

## 15.6.2 Hazard Event History

The history of natural and non-natural hazard events in Torrey is detailed in Volume I, where each hazard profile includes a chronology of historical events that have affected the County and its municipalities. Table 15-14 provides details on loss and damage in Torrey during hazard events since the last hazard mitigation plan update.

**Table 15-14. Hazard Event History in Torrey**

Dates of Event	Event Type (Disaster Declaration)	County Designated?	Summary of Event	Summary of Damage and Losses in Torrey
July 29, 2020	Severe Storm	N/A	Severe thunderstorms moved in the County, producing mostly tree damage. Strong winds brought down trees and wires, and damaged two boats. This event caused \$35,000 in property damages.	The Village of Dresden in the Town of Torrey had numerous trees and electrical wires downed. This required an extensive effort to clear trees and restore utility services
January 20, 2020 – May 11, 2023	Disease Outbreak (EM-3434), (DR-4480)	Yes	As of July 9, 2023, the New York Department of Health has reported 4,543 reported cases and 45 reported deaths in Yates County.	The Town of Torrey from April 1, 2020 to June 30, 2020 discontinued town services because of the COVID Pandemic. This resulted in \$20,000 in loss of town services.

EM = Emergency Declaration (FEMA)

FEMA = Federal Emergency Management Agency

DR = Major Disaster Declaration (FEMA)

N/A = Not applicable

## 15.6.3 Hazard Ranking and Vulnerabilities

The hazard profiles in Volume I have detailed information regarding each planning partner's vulnerability to the identified hazards. The following presents key risk assessment results for Torrey.

### Hazard Ranking

The participating jurisdictions have differing degrees of vulnerability to the hazards of concern, so each jurisdiction ranked its own degree of risk to each hazard. The community-specific hazard ranking is based on problems and impacts identified by the risk assessment presented in Volume I. 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; community capabilities to address the hazard; and changing future climate conditions. Torrey reviewed the County hazard



ranking and individual results to assess the relative risk of the hazards of concern to the community. During the review of the hazard ranking, the Town indicated the following:

- The Town changed both the Hazardous Materials and Transportation Accidents hazards from low to medium due to the transportation of hazardous materials along the Norfolk Southern Railroad and State Route 14, both of which pass through the Town.

Table 15-15 shows Torrey's final hazard rankings for identified hazards of concern. Mitigation action development uses the ranking to target hazards with the highest risk.

**Table 15-15. Hazard Ranking**

Hazard	Rank
Dam Failure	Low
Disease Outbreak	Medium
Drought	Medium
Extreme Temperature	Medium
Flood	Low
Harmful Algal Blooms	Medium
Hazardous Materials	Medium
Landslides	Low
Severe Weather	Medium
Severe Winter Weather	Medium
Transportation	Medium
Utility Failure	Medium

*Note: The scale is based on the hazard rankings established in Volume I, modified as appropriate based on review by the jurisdiction*

## Critical Facilities

Table 15-16 identifies critical facilities in the community located in the 1 percent and 0.2 percent annual chance floodplains.

**Table 15-16. Critical Facilities Flood Vulnerability**

Name	Type	Vulnerability		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Annual Chance Event	0.2% Annual Chance Event		
The Town has no identified critical facilities in the floodplain					



Source: Yates County 2023

### 15.6.4 Identified Issues

After review of Torrey's hazard event history, hazard rankings, hazard location, and current capabilities, Torrey identified the following vulnerabilities within the community:

- Recent severe storm and winter storm events have resulted in severe rainfall which have overwhelmed culverts and caused flooding. It is assumed that some culverts may be undersized and contribute to flooding, such as the ones located on Perry Point Road, Anthony Beach Road, Serenity Road, Arrowhead Beach Road, and Long Point Road.
- The residents that live in the Serenity Road, Perry Point Road, Arrowhead Road, and Rock Haven Beach Road area do not have access to municipal water and are reliant on other sources of water which could become dangerous during drought events.
- The shoulder and half of the roadway are unstable in one section of E. Leach Road. The problem site is at the point where E. Leach Rd bends north to run parallel to Seneca Lake from the road's initial east-west course. Linear posts were set up on the side of the road, enabling the Town to determine that the center has tipped southward almost two feet.
- Log Cabin Road experiences numerous closures and flooding from severe weather and severe winter weather that may eventually lead to erosion and landslides which have the potential to destroy nearby properties and infrastructure.
- Hanson Harbor Road experiences numerous closures and flooding from severe weather and severe winter weather that may eventually lead to erosion and landslides which have the potential to destroy nearby properties and infrastructure.
- Perry Point Road experiences flooding from severe weather and severe winter weather which impacts the lakefront homes located along the road.
- Harmful Algal Blooms are persistent along the Seneca Lake Shoreline which significantly reduces the amount of tourism activities that can take place in and on the lake.
- The Town does not have any organizations that conduct outreach and education to socially vulnerable populations and underserved populations relating to dam failure, disease outbreak, drought, extreme temperature, flood, harmful algal blooms, hazardous materials, landslides, severe weather, severe winter weather, transportation accidents, and utility failure, which are the County's identified hazards of concern.
- Feagles Road is a dirt road that is experiencing washouts from flooding and severe storm and winter storms, as well as erosion which makes the road impassable during storm events which also prevents emergency responders from using the road.

## 15.7 MITIGATION STRATEGY AND PRIORITIZATION

This section discusses the status of mitigation actions from the previous HMP, describes proposed hazard mitigation actions, and prioritizes actions to address over the next five years.

### 15.7.1 Past Mitigation Action Status

Table 2-17 indicates progress on the Town's mitigation strategy identified in the 2020 HMP. Actions that are still recommended but not completed or that are in progress are carried forward and combined with new actions as part of the mitigation strategy for this plan update. Previous actions that are now ongoing programs and capabilities are indicated as such and are presented in the capability assessment earlier in this annex.

### 15.7.2 Additional Mitigation Efforts

In addition to the mitigation actions completed in Table 15-17, Torrey identified the following mitigation efforts completed since the last HMP:

- In 2022, through the Justice Court Assistance Program (JCAP) a grant was obtained. This allowed the Town of Torrey to purchase and install an emergency back-up generator at the Town Building complex. The generator will be used in case of a Utility Failure.
- In the Spring of 2023, the Torrey Station at the intersection of Route 14 and Route 54, the gasoline bulk tanks of a defunct gas station were removed from the site. This mitigated a Hazardous Materials situation.

Since the adoption of the County's first HMP, Torrey has made significant mitigation progress in the following areas:

- The formation in the Town of Torrey Water District One (WD1) and installation of municipal water allows the residents in this area to discontinue drawing water from Seneca Lake for household use. This mitigates the exposure to Harmful Algal Blooms in this area of the Town of Torrey.
- The Lockwood Ash dump on Swarthout Road has two sediment ponds that have been brought up to New York State Department of Environmental Conservation code. This mitigated a Hazardous Materials situation.

**Table 15-17. Status of Previous Mitigation Actions**

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Action Review 1. Status (In Progress, Ongoing Capability, No Progress, Complete) 2. Provide a narrative to describe progress or obstacles that have prevented implementation	Next Steps 1. Project to be included in the 2024 HMP or Discontinue 2. If including action in the 2024 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
T. Torrey-1	Farm and Agricultural Public Education and Outreach	All	Town Board with support from Yates County Soil and Water	The Town currently does not have an outreach program to farmers and other agricultural producers informing them of the negative impacts from farm waste and contamination of stormwater and drinking water.	1. Ongoing Capability 2. This is an ongoing capability. The Town continues to provide outreach programs to farmers and other agricultural producers informing them of the negative impacts from farm waste and contamination of stormwater and drinking water.	1. Discontinue – ongoing capability 2. N/A 3. This is an ongoing capability. The Town continues to provide outreach programs to farmers and other agricultural producers informing them of the negative impacts from farm waste and contamination of stormwater and drinking water.
T. Torrey-2	Arrowhead Beach Road Project	Flood, Severe Storm, Severe Storm	Town Highway Department, property owners	Two existing 10" culverts that run from the west side of Arrowhead Head Beach Road to Seneca Lake are inadequate to handle the large volumes of water generated by extreme storms. The ditch overflows and floods the houses on the lower side of the road. The water runs from the culvert, across the road and reaches the homes, causing road	1. Completed 2. Project has been completed - Yates County Soil and Water supervised the tiling of the field west of Anthony Road and south of David Downey Road to establish a Water and Sediment Control Basin. This has mitigated to a large extent the large volumes of water generated by extreme storms flooding down to	1. Discontinue 2. N/A 3. Project has been completed - Yates County Soil and Water supervised the tiling of the field west of Anthony Road and south of David Downey Road to establish a Water and Sediment Control Basin. This has mitigated to a large extent the large volumes of water generated by extreme storms flooding down to the Arrowhead Beach Road properties. The necessity of rip rap on the Arrowhead Beach Road culverts will be considered.



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Action Review 1. Status (In Progress, Ongoing Capability, No Progress, Complete) 2. Provide a narrative to describe progress or obstacles that have prevented implementation	Next Steps 1. Project to be included in the 2024 HMP or Discontinue 2. If including action in the 2024 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
				erosion and damage to private property. It is conceivable that serious road erosion would cause exposure of gas lines run underneath, creating the potential for fire or explosion. This could be an even bigger problem if a dangerous situation occurred at the same time a train carrying hazardous materials happens to be traveling through the area on nearby railroad tracks. The tracks are located less than 400 feet from the road at this location. When the road is closed due to flooding, residents are not able to access or leave their property, and police, fire, and EMS personnel are unable to reach residents in the event of an emergency. The most affected structures are those located in the 1200 block of Arrowhead Beach Road.	the Arrowhead Beach Road properties. The necessity of rip rap on the Arrowhead Beach Road culverts will be considered.	





Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Action Review 1. Status (In Progress, Ongoing Capability, No Progress, Complete) 2. Provide a narrative to describe progress or obstacles that have prevented implementation	Next Steps 1. Project to be included in the 2024 HMP or Discontinue 2. If including action in the 2024 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
T. Torrey-3	East Leach Road Project	Flood, Landslide, Severe Storm	Town Highway Department	The shoulder and half of the roadway are unstable in one section of E. Leach Road. The problem site is at the point where E. Leach Rd bends north to run parallel to Seneca Lake from the road's initial east-west course. Linear posts were set up on the side of the road, enabling the Town to determine that the center has tipped southward almost two feet.	1. In Progress 2. Torrey Highway Superintendent has reached out to neighboring Highway Superintendents who have had a similar issue. Torrey Highway Superintendent continues to monitor the situation.	1. Include in the 2025 HMP - Torrey Highway Superintendent has reached out to neighboring Highway Superintendents who have had a similar issue. Torrey Highway Superintendent continues to monitor the situation. 2. Keep as stated. 3. N/A

### 15.7.3 Proposed Hazard Mitigation Actions for the HMP Update

Torrey participated in the mitigation strategy workshop for this HMP to identify appropriate actions to include in a local hazard mitigation strategy. Its comprehensive consideration of all possible activities to address hazards of concern included review of the following FEMA documents:

- FEMA 551 “Selecting Appropriate Mitigation Measures for Floodprone Structures” (March 2007)
- FEMA “Mitigation Ideas—A Resource for Reducing Risk to Natural Hazards” (January 2013).

The action worksheets included at the end of this annex list the mitigation actions that Torrey would like to pursue in the future to reduce the effects of hazards. The actions 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 Town priorities.

Table 15-18 indicates the range of proposed mitigation action categories. 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.

Volume I identifies 14 evaluation criteria for prioritizing the mitigation actions. To assist with rating each mitigation action as high, medium, or low priority, a numeric rank is assigned (-1, 0, or 1) for each of the evaluation criteria. Table 2-19 provides a summary of the prioritization of all proposed mitigation actions for the HMP update.

**Table 15-18. Analysis of Mitigation Actions by Hazard and Category**

Hazard	Actions That Address the Hazard, by Action Category									
	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Dam Failure				X			X			
Disease Outbreak				X			X			
Drought		X		X			X		X	
Extreme Temperatures				X			X			
Flood		X		X			X		X	
Harmful Algal Bloom	X			X			X	X		
Hazardous Materials				X			X			
Landslide		X		X			X		X	
Severe Storm		X		X			X		X	
Severe Winter Storm		X		X			X		X	
Transportation Accidents				X			X			
Utility Failure				X			X			

*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 structures to reduce the impact of hazards.

*Natural Systems Protection (NSP)*—These are actions that minimize damage and losses and 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

*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 preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.

*Structural Flood Control Projects (SP)*—Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.

*Emergency Services (ES)*—Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities

**Table 15-19. Summary of Prioritization of Actions**

Project Number	Project Name	Scores for Evaluation Criteria														Total	High / Medium / Low
		Life Safety	Property Protection	Cost-Effectiveness	Political	Legal	Fiscal	Environmental	Social Vulnerability	Administrative	Hazards of Concern	Climate Change	Timeline	Community Lifelines	Other Local Objectives		
2025-Torrey-01	Culvert Improvements	1	1	1	1	1	0	0	0	1	1	1	1	0	1	<b>10</b>	Medium
2025-Torrey-02	Municipal Water Supply Extension	1	0	1	1	1	0	0	1	1	1	1	1	1	1	<b>11</b>	High
2025-Torrey-03	East Leach Road Project	1	1	1	1	1	0	0	1	1	1	1	1	0	1	<b>11</b>	High
2025-Torrey-04	Log Cabin Road Flooding and Closures	1	1	1	1	1	0	1	1	1	1	1	1	0	1	<b>12</b>	High
2025-Torrey-05	Hanson Harbor Road Flooding and Closures	1	1	1	1	1	0	1	1	1	1	1	1	0	1	<b>12</b>	High
2025-Torrey-06	Perry Point Road Flooding	1	1	1	1	1	0	1	1	1	1	1	1	0	1	<b>12</b>	High
2025-Torrey-07	Algal Bloom Testing	1	0	1	1	1	0	1	1	1	1	1	1	0	1	<b>11</b>	High
2025-Torrey-08	Socially Vulnerable Populations Outreach	1	0	1	1	1	1	1	1	1	1	1	1	1	0	<b>12</b>	High
2025-Torrey-09	Feagles Road Erosion Mitigation	1	1	1	1	1	0	0	1	1	1	1	1	1	1	<b>12</b>	High

Note: Volume I, Section 20 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-6), Medium (7-10), High (11-14).

**2025-TorreyT-01. Culvert Improvements**

<b>Action Name:</b>	Culvert Improvements	
<b>Lead Agency:</b>	Highway Department	
<b>Supporting Agencies:</b>	Planning Board	
<b>Hazards of Concern:</b>	Flood, Severe Weather, Severe Winter Weather	
<b>Description of the Problem:</b>	Recent severe storm and winter storm events have resulted in severe rainfall which have overwhelmed culverts and caused flooding. It is assumed that some culverts may be undersized and contribute to flooding, such as the ones located on Perry Point Road, Anthony Beach Road, Serenity Road, Arrowhead Beach Road, and Long Point Road.	
<b>Description of the Solution:</b>	The Town will complete an engineering survey of culverts on Perry Point Road, Anthony Beach Road, Serenity Road, Arrowhead Beach Road, and Long Point Road that are undersized and deteriorating which contribute to flooding. This survey will determine the proper size necessary to provide stormwater capacity. The Town will complete the necessary upsizing for those culverts noted to be undersized and will repair the ones that are deteriorating.	
<b>Estimated Cost:</b>	TBD after Survey	
<b>Potential Funding Sources:</b>	HMGP, BRIC, CHIPS, Town Budget	
<b>Implementation Timeline:</b>	Within 5 Years	
<b>Goals Met:</b>	1, 2	
<b>Benefits:</b>	Overall flooding will be reduced, which will result in less frequency of road closures and reduced damage occurring to culverts and roadways during severe events. Businesses are likely to remain in place if they are able to remain open, or re-open sooner following a flood.	
<b>Impact on Socially Vulnerable Populations:</b>	Areas that were previously vulnerable to frequency or severe flooding events will be less likely to be impacted by flooding events.	
<b>Impact on Future Development:</b>	Future development in the impacted area will be less likely to be flooded.	
<b>Impact on Critical Facilities/Lifelines:</b>	<ul style="list-style-type: none"><li>• Transportation routes are more likely to remain open</li><li>• Evacuation routes will remain intact.</li><li>• Access to health and medical facilities will be maintained, both for healthcare workers and the population who requires treatment for injuries and illness.</li></ul>	
<b>Impact on Capabilities:</b>	Identifying the culverts that are at greatest risk of damage or failure can allow for resource staging to take place where the need is greatest ahead of a flood event.	
<b>Climate Change Considerations:</b>	Climate change is likely to result in more frequent and severe rainfall events. This action upsizes culvert sizes to meet changing stormwater needs as the result of climate change.	
<b>Mitigation Category</b>	Structure and Infrastructure Project	
<b>CRS Category</b>	Structural Project	
<b>Priority</b>	Medium	
<b>Alternatives</b>	<b>Action</b>	<b>Evaluation</b>



	No Action	-
	Remove roadway	Roadway cannot be removed
	Raingardens	Raingardens are unlikely to be able to absorb enough stormwater to prevent flooding during severe rainfall events.

**2025-TorreyT-02. Municipal Water Supply Extension**

<b>Action Name:</b>	Municipal Water Supply Extension	
<b>Lead Agency:</b>	Highway Department	
<b>Supporting Agencies:</b>	Planning Board	
<b>Hazards of Concern:</b>	Drought	
<b>Description of the Problem:</b>	The residents that live in the Serenity Road, Perry Point Road, Arrowhead Road, and Rock Haven Beach Road area do not have access to municipal water and are reliant on other sources of water which could become dangerous during drought events.	
<b>Description of the Solution:</b>	The Town will conduct a study to determine if it is feasible to give the Serenity Road residents access to municipal water. Once feasibility is determined, the Town will work to install hook ups to the municipal water source.	
<b>Estimated Cost:</b>	TBD after Study	
<b>Potential Funding Sources:</b>	HMGP, BRIC, Town Budget	
<b>Implementation Timeline:</b>	Within 5 Years	
<b>Goals Met:</b>	1, 2	
<b>Benefits:</b>	This action would give Serenity Road, Perry Point Road, Arrowhead Road and Rock Haven Beach Road area residents access to the municipal water source.	
<b>Impact on Socially Vulnerable Populations:</b>	Some residents in the Serenity Road, Perry Point Road, Arrowhead Road and Rock Haven Beach Road area may not have guaranteed access to clean and potable water.	
<b>Impact on Future Development:</b>	Future development along Serenity Road, Perry Point Road, Arrowhead Road and Rock Haven Beach Road area will have an easier time accessing the municipal water source.	
<b>Impact on Critical Facilities/Lifelines:</b>	N/A	
<b>Impact on Capabilities:</b>	This action would increase the Town's capability in handling drought and wildfire.	
<b>Climate Change Considerations:</b>	Climate change is likely to result in more frequent and severe hazard events.	
<b>Mitigation Category</b>	Structure and Infrastructure Project	
<b>CRS Category</b>	Structural Project	
<b>Priority</b>	High	
<b>Alternatives</b>	<b>Action</b>	<b>Evaluation</b>
	No Action	-
	Rely on Groundwater	Issue of Droughts
	Relocate the properties	Not cost effective

**2025-TorreyT-03. East Leach Road Project**

<b>Action Name:</b>	East Leach Road Project
<b>Lead Agency:</b>	Town Highway Department
<b>Supporting Agencies:</b>	Planning Board
<b>Hazards of Concern:</b>	Flood, Landslide, Severe Weather, Severe Winter Weather
<b>Description of the Problem:</b>	<p>The shoulder and half of the roadway are unstable in one section of E. Leach Road. The problem site is at the point where E. Leach Rd bends north to run parallel to Seneca Lake from the road's initial east-west course. Linear posts were set up on the side of the road, enabling the Town to determine that the center has tipped southward almost two feet.</p> <p>Road specialists excavated the road ten feet (at a cost of \$3,000) and were unable to determine the cause of the problem. They then dug six feet into the road and installed two-inch cobblestones. On top of this, the roadbed was built up 10 inches, compacted (twice) and repaved. The road has been repaved three times in the past seven years. These repairs cost a total of \$10-\$15,000, but the shoulder keeps sinking and there are concerns of flooding from severe weather and winter weather leading to landslides in this area. This instability could potentially cause significant wider road damage. If this situation continues, there will be no access to homes along the waterfront.</p> <p>It has been proposed that the Town excavate a greater segment of the road and to excavate further down to find the source. It has been considered a water-related issue, but area drainage issues were addressed earlier in the year, and this did not improve road stability.</p>
<b>Description of the Solution:</b>	Secure an engineering firm to conduct additional studies to determine the cause of continued erosion/sinking/damage.
<b>Estimated Cost:</b>	Medium
<b>Potential Funding Sources:</b>	NYS DOT, BridgeNY, HMGP, FMA, BRIC, Town Budget
<b>Implementation Timeline:</b>	1 Year
<b>Goals Met:</b>	1, 2
<b>Benefits:</b>	Constant repairs (town resources and dollars) of road and shoulder would no longer be required. Access to homes along waterfront would remain available.
<b>Impact on Socially Vulnerable Populations:</b>	Socially vulnerable populations may be more reliant on these roads to meet their needs.
<b>Impact on Future Development:</b>	Future development may benefit by being able to be fully reliant on the use of this road segment.
<b>Impact on Critical Facilities/Lifelines:</b>	N/A
<b>Impact on Capabilities:</b>	This action will improve the Town's capability to facilitate emergency evacuation.
<b>Climate Change Considerations:</b>	Climate change is likely to result in more frequent and severe hazard events and may result in more sliding.
<b>Mitigation Category</b>	Structure and Infrastructure Project





CRS Category	Structural Project	
Priority	High	
Alternatives	Action	Evaluation
	No Action	-
	Create a different road pathway that is not prone to sliding	No access to anything that East Leach Road leads to
	Elevate the road	Does not stop the sinking issue and not cost effective

**2025-TorreyT-04. Log Cabin Road Flooding and Closures**

<b>Action Name:</b>	Log Cabin Road Flooding and Closures	
<b>Lead Agency:</b>	Highway Department	
<b>Supporting Agencies:</b>	Planning Board	
<b>Hazards of Concern:</b>	Flood, Landslide, Severe Weather, Severe Winter Weather	
<b>Description of the Problem:</b>	Log Cabin Road experiences numerous closures and flooding from severe weather and severe winter weather that may eventually lead to erosion and landslides which have the potential to destroy nearby properties and infrastructure.	
<b>Description of the Solution:</b>	The Town will facilitate a flood and erosion study to determine which areas of the road need to be reinforced and will implement the best and most cost-effective solution.	
<b>Estimated Cost:</b>	TBD after study	
<b>Potential Funding Sources:</b>	HMGP, BRIC, FMA, CHIPS, Town Budget	
<b>Implementation Timeline:</b>	Within 5 Years	
<b>Goals Met:</b>	1, 2	
<b>Benefits:</b>	Log Cabin Road will be a safe and passable road, while keeping the integrity of the property and infrastructure that may be located nearby.	
<b>Impact on Socially Vulnerable Populations:</b>	Some socially vulnerable populations may be dependent on access to Log Cabin Road for childcare, medical care, or as an evacuation route.	
<b>Impact on Future Development:</b>	Future development will be able to develop along and around Log Cabin Road once the integrity of the road is restored and strengthened.	
<b>Impact on Critical Facilities/Lifelines:</b>	Critical facilities may be located on or around Log Cabin Road and are fully dependent on the road for access.	
<b>Impact on Capabilities:</b>	This action improves the Town's capability of having transportation corridors that allow access to different areas in the Town.	
<b>Climate Change Considerations:</b>	Climate change is likely to result in more frequent and severe hazard events and may result in more sliding.	
<b>Mitigation Category</b>	Structure and Infrastructure Project	
<b>CRS Category</b>	Structural Project	
<b>Priority</b>	High	
<b>Alternatives</b>	<b>Action</b>	<b>Evaluation</b>
	No Action	-
	Create a different road pathway that is not prone to sliding	No access to anything that Log Cabin Road leads to
	Elevate the road	Does not stop the sinking issue and not cost effective

**2025-TorreyT-05. Hanson Harbor Road Flooding and Closures**

<b>Action Name:</b>	Hanson Harbor Road Flooding and Closures	
<b>Lead Agency:</b>	NYS DOT	
<b>Supporting Agencies:</b>	Highway Department	
<b>Hazards of Concern:</b>	Flood, Landslide, Severe Weather, Severe Winter Weather	
<b>Description of the Problem:</b>	Hanson Harbor Road experiences numerous closures and flooding from severe weather and severe winter weather that may eventually lead to erosion and landslides which have the potential to destroy nearby properties and infrastructure.	
<b>Description of the Solution:</b>	The Town will facilitate a flood and erosion study to determine which areas of the road need to be reinforced and will implement the best and most cost-effective solution.	
<b>Estimated Cost:</b>	TBD after study	
<b>Potential Funding Sources:</b>	HMGP, BRIC, FMA, CHIPS, Town Budget	
<b>Implementation Timeline:</b>	Within 5 Years	
<b>Goals Met:</b>	1, 2	
<b>Benefits:</b>	Hanson Harbor Road will be a safe and passable road, while keeping the integrity of the property and infrastructure that may be located nearby.	
<b>Impact on Socially Vulnerable Populations:</b>	Some socially vulnerable populations may be dependent on access to Hanson Harbor Road for childcare, medical care, or as an evacuation route.	
<b>Impact on Future Development:</b>	Future development will be able to develop along and around Hanson Harbor Road once the integrity of the road is restored and strengthened.	
<b>Impact on Critical Facilities/Lifelines:</b>	Critical facilities may be located on or around Hanson Harbor Road and are fully dependent on the road for access.	
<b>Impact on Capabilities:</b>	This action improves the Town's capability of having transportation corridors that allow access to different areas in the Town.	
<b>Climate Change Considerations:</b>	Climate change is likely to result in more frequent and severe hazard events and may result in more sliding.	
<b>Mitigation Category</b>	Structure and Infrastructure Project	
<b>CRS Category</b>	Structural Project	
<b>Priority</b>	High	
<b>Alternatives</b>	<b>Action</b>	<b>Evaluation</b>
	No Action	-
	Create a different road pathway that is not prone to sliding	No access to anything that Hanson Harbor leads to
	Elevate the road	Does not stop the sinking issue and not cost effective

**2025-TorreyT-06. Perry Point Road Flooding**

<b>Action Name:</b>	Perry Point Road Flooding	
<b>Lead Agency:</b>	Highway Department	
<b>Supporting Agencies:</b>	Planning Board	
<b>Hazards of Concern:</b>	Flood, Severe Weather, Severe Winter Weather	
<b>Description of the Problem:</b>	Perry Point Road experiences flooding from severe weather and severe winter weather which impacts the lakefront homes located along the road.	
<b>Description of the Solution:</b>	The Town will facilitate a flood study to determine which areas of the road need to be reinforced and will implement the best and most cost-effective solution. Additionally, the Town will conduct flood outreach to lakefront properties.	
<b>Estimated Cost:</b>	TBD after study	
<b>Potential Funding Sources:</b>	HMGP, BRIC, FMA, CHIPS, Town Budget	
<b>Implementation Timeline:</b>	Within 5 Years	
<b>Goals Met:</b>	1, 2	
<b>Benefits:</b>	Perry Point Road will be a safe and passable road, while lakefront homes are experiencing reduced flooding.	
<b>Impact on Socially Vulnerable Populations:</b>	Some socially vulnerable populations may be affected by flooding on Perry Point Road.	
<b>Impact on Future Development:</b>	Future development will be able to develop along and around Perry Point Road once the integrity of the road is restored and strengthened.	
<b>Impact on Critical Facilities/Lifelines:</b>	Critical facilities may be located on or around Perry Point Road and are fully dependent on the road for access.	
<b>Impact on Capabilities:</b>	This action improves the Town's capability of having transportation corridors that allow access to different areas in the Town.	
<b>Climate Change Considerations:</b>	Climate change is likely to result in more frequent and severe hazard events and may result in more sliding.	
<b>Mitigation Category</b>	Structure and Infrastructure Project	
<b>CRS Category</b>	Structural Project	
<b>Priority</b>	High	
<b>Alternatives</b>	<b>Action</b>	<b>Evaluation</b>
	No Action	-
	Create a different road pathway that is not prone to sliding	No access to anything that Perry Point Road leads to
	Elevate the road	Does not stop the sinking issue and not cost effective

**2025-TorreyT-07. Algal Bloom Testing**

<b>Action Name:</b>	Algal Bloom Testing	
<b>Lead Agency:</b>	NYS Parks	
<b>Supporting Agencies:</b>	Finger Lakes Regional Planning Council, Town Board	
<b>Hazards of Concern:</b>	Harmful Algal Blooms	
<b>Description of the Problem:</b>	Harmful Algal Blooms are persistent along the Seneca Lake Shoreline which significantly reduces the amount of tourism activities that can take place in and on the lake.	
<b>Description of the Solution:</b>	The Town will facilitate a coordination with the Finger Lakes Regional Planning Council and NYS Parks in order to test for harmful algal blooms and treat them.	
<b>Estimated Cost:</b>	Low	
<b>Potential Funding Sources:</b>	HMGP, Town Budget	
<b>Implementation Timeline:</b>	Within 5 years and ongoing once established.	
<b>Goals Met:</b>	1, 2	
<b>Benefits:</b>	The Town will experience reduced harmful algal blooms and will have a plan of action in how to treat them.	
<b>Impact on Socially Vulnerable Populations:</b>	Some socially vulnerable populations may not have any awareness of harmful algal blooms and will experience reduced exposure to them.	
<b>Impact on Future Development:</b>	N/A	
<b>Impact on Critical Facilities/Lifelines:</b>	N/A	
<b>Impact on Capabilities:</b>	This action strengthens the Town's ability to process and handle harmful algal blooms.	
<b>Climate Change Considerations:</b>	Climate change is likely to result in more frequent and severe hazard events that may spur additional harmful algal blooms.	
<b>Mitigation Category</b>	Local Plans and Regulations	
<b>CRS Category</b>	Natural Resource Protection	
<b>Priority</b>	High	
<b>Alternatives</b>	<b>Action</b>	<b>Evaluation</b>
	No Action	-
	Educate the Public on Harmful Algal Blooms	An action is needed to reduce and monitor the blooms
	Close the lake	Not cost effective

**2025-TorreyT-08. Socially Vulnerable Populations Outreach**

<b>Action Name:</b>	Socially Vulnerable Populations Outreach
<b>Lead Agency:</b>	Planning and Development Committee
<b>Supporting Agencies:</b>	Highway Department
<b>Hazards of Concern:</b>	Dam Failure, Disease Outbreak, Drought, Extreme Temperature, Flood, Harmful Algal Bloom, Hazardous Materials, Landslides, Severe Weather, Severe Winter Weather, Transportation, Utility Failure
<b>Description of the Problem:</b>	The Town does not have any organizations that conduct outreach and education to socially vulnerable populations and underserved populations relating to dam failure, disease outbreak, drought, extreme temperature, flood, harmful algal blooms, hazardous materials, landslides, severe weather, severe winter weather, transportation accidents, and utility failure, which are the County's identified hazards of concern.
<b>Description of the Solution:</b>	Create outreach materials, or utilize those from Yates County, on hazard risks and methods of mitigation on each identified hazard of concern, for socially vulnerable populations. Methods of distribution may include Town events, the Town newsletters, social media, the Town website, and having the materials on display for the public at Town libraries and offices. Consider hiring staff to work directly with socially vulnerable populations. Outreach materials will be specified with education and information for each individual hazard of concern.
<b>Estimated Cost:</b>	Low
<b>Potential Funding Sources:</b>	Town Budget, HMGP
<b>Implementation Timeline:</b>	Within 3 Years and ongoing once established capability
<b>Goals Met:</b>	2, 3
<b>Benefits:</b>	This action will ensure there is an individual working to identify and work with the socially vulnerable populations in the Town. Furthermore, this action will create opportunities to educate and inform populations on hazard risks.
<b>Impact on Socially Vulnerable Populations:</b>	Socially vulnerable populations in the Town will become educated on hazards risks. The Town will identify an individual to identify and work with these populations to ensure the most up to date information is being shared.
<b>Impact on Future Development:</b>	N/A
<b>Impact on Critical Facilities/Lifelines:</b>	Educating populations on hazard risk and how to mitigate the risks can decrease the demand on utilities and emergency services including health and medical, law enforcement, and search and rescue.
<b>Impact on Capabilities:</b>	This action would build upon the Town's already existing public education and outreach program.
<b>Climate Change Considerations:</b>	Climate change is likely to increase the intensity and frequency of many climate related disaster events. This action will inform residents and business owners of how to reduce risk from hazards and how climate change may exacerbate those risks.
<b>Mitigation Category</b>	Education and Awareness Programs
<b>CRS Category</b>	Public Information
<b>Priority</b>	High



Alternatives	Action	Evaluation
	No Action	-
	Rely on state or federal resources	Resources may be generalized and not specific to the risks in the Town
	Use only a few methods for distribution	Using only a few methods of distribution may hinder socially vulnerable populations from receiving the guidance

**2025-TorreyT-09. Feagles Road Erosion Mitigation**

<b>Action Name:</b>	Feagles Road Erosion Mitigation	
<b>Lead Agency:</b>	Town Highway Department	
<b>Supporting Agencies:</b>	Town Administration	
<b>Hazards of Concern:</b>	Flood, Landslide, Severe Storm, Severe Winter Storm, Transportation Accidents	
<b>Description of the Problem:</b>	Feagles Road is a dirt road that is experiencing washouts from flooding and severe storm and winter storms, as well as erosion which makes the road impassable during storm events which also prevents emergency responders from using the road.	
<b>Description of the Solution:</b>	The Town will stone or pave the road to prevent erosion and potential landslides that make the road impassable or could lead to transportation accidents.	
<b>Estimated Cost:</b>	TBD after estimates	
<b>Potential Funding Sources:</b>	HMGP, BRIC, FMA	
<b>Implementation Timeline:</b>	Within 5 years	
<b>Goals Met:</b>	1, 2	
<b>Benefits:</b>	Feagles Road will be a safe and passable road, while experiencing less erosion.	
<b>Impact on Socially Vulnerable Populations:</b>	Some socially vulnerable populations may be affected by flooding and erosion on Feagles Road.	
<b>Impact on Future Development:</b>	Future development will be able to develop along and around Feagles Road once the integrity of the road is restored and strengthened.	
<b>Impact on Critical Facilities/Lifelines:</b>	Critical facilities may be located on or around Feagles Road and are fully dependent on the road for access.	
<b>Impact on Capabilities:</b>	This action improves the Town's capability of having transportation corridors that allow access to different areas in the Town.	
<b>Climate Change Considerations:</b>	Climate change is likely to result in more frequent and severe hazard events and may result in more sliding.	
<b>Mitigation Category</b>	Structure and Infrastructure Project	
<b>CRS Category</b>	Structural Project	
<b>Priority</b>	High	
<b>Alternatives</b>	<b>Action</b>	<b>Evaluation</b>
	No Action	-
	Create a different road pathway that is not prone to erosion	No access to anything that Feagles Road leads to
	Elevate the road	Does not stop the sinking issue and not cost effective