



## 9.5 VILLAGE OF CALEDONIA

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

### 9.5.1 Hazard Mitigation Planning Team

The following individuals have been identified as the Village of Caledonia’s hazard mitigation plan primary and alternate points of contact. The Village of Caledonia followed the planning process described in Section 3 (Planning Process) in Volume I of this plan update. This annex was developed over the course of several months with input from many Village departments, including: Public Works and Village Clerk. The Mayor represented the community on the Livingston 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 Village of Caledonia’s planning process through Planning Partnership meetings is included in Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.5-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: Scott DiLiberto, Mayor Address: 3095 Main St., Caledonia, NY 14423 Phone Number: 585-538-6565 Email: calmayor@frontier.net	Name/Title: Ann Marie Grattan, Clerk-Treasurer Address: 3095 Main St., Caledonia, NY 14423 Phone Number: 585-538-6565 Email: amgrat@frontier.net
NFIP Floodplain Administrator	
Name/Title: Chris Buckley, Working Foreman Address: 3095 Main St., Caledonia, NY 14423 Phone Number: 585-538-2253 Email: cfbuckley@frontier.net	

### 9.5.2 Municipal Profile

The According to the U.S. Census Bureau, the Village has a total land area of 2.1 square miles. It is bordered on the East, West, and South by the Town of Caledonia, and to the North by the Town of Wheatland in Monroe County. The Village of Caledonia is located in the northern area of Livingston County and is only 25 miles from downtown Rochester. According to the U.S. Census, the 2020 population for the Village of Caledonia was 2,080, a 5.5 percent decrease from the 2010 Census. Data from the 2019 U.S. Census American Community Survey indicate that 6.1 percent of the population is 5 years of age or younger and 16.6 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.



### 9.5.3 Jurisdictional Capability Assessment and Integration

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

- An assessment of planning, 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 this planning effort, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress in plan integration and how risk reduction is supported. Areas with current mitigation integration are summarized in this jurisdictional Capability Assessment (Section 9.5.3). The Village of Caledonia’s identified opportunities for integration of mitigation concepts to be incorporated into municipal procedures are included in the updated mitigation strategy.

#### Planning, Legal, and Regulatory Capability

The table below summarizes the regulatory tools that are available to the Village of Caledonia. Section 6 (Capability Assessment) provides an overview of the planning, legal and regulatory capabilities. The following table summarizes what is present in the jurisdiction and discusses if the mechanisms have been or could be leveraged to reduce risk.

**Table 9.5-2. Planning, Legal, and Regulatory Capability**

	Jurisdiction has this? (Yes/No)	Required by State? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>					
Building Code	Yes	Yes	Chapter 77 & 113	State and Local	CEO
<i>How does this reduce risk?</i>					
Provides requirements and standards for development in the village					
Zoning/Land Use Code	Yes	No	Chapter 215	Local	CEO
<i>How does this reduce risk?</i>					
Regulate and restrict the height, number of stories and size of buildings and other structures; the percentage of occupancy of lots and parcels of land that may be occupied; the size of yards, courts and open spaces; the density of population; the location and use of buildings, structures and land for trade, industry, residence or other purposes; and to establish zones or districts in the Village of Caledonia, the Village Board does ordain the following regulations.					
Subdivision Ordinance	Yes	No	Chapter 186	Local	CEO
<i>How does this reduce risk?</i>					
It is the policy of the Planning Board to consider land subdivision plats as part of a plan for the orderly, efficient and economical development of the village. This means, among other things, that land to be subdivided shall be of such character that it can be used safely for building purposes without danger to health or peril from fire, flood or other menace, and that proper provisions shall be made for drainage, water supply, sewerage and other needed improvements.					
Site Plan Ordinance	Yes	No	Chapter 186	Local and County	CEO
<i>How does this reduce risk?</i>					
Part of the zoning procedures to ensure it meets local ordinances					
Stormwater Management Ordinance	No	-	-	-	-



	Jurisdiction has this? (Yes/No)	Required by State? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<i>How does this reduce risk?</i> Flood damage protection					
Post-Disaster Recovery/ Reconstruction Ordinance	No	-	-	-	-
<i>How does this reduce risk?</i>					
Real Estate Disclosure	Yes	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> <ul style="list-style-type: none"> <li>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.</li> </ul>					
Growth Management	No	-	-	-	-
<i>How does this reduce risk?</i>					
Environmental Protection Ordinance	No	-	-	-	-
<i>How does this reduce risk?</i>					
Flood Damage Prevention Ordinance	Yes	Yes - BFE+2 feet for all construction in the SFHA (residential and non-residential)	Chapter 121	Federal, State, County and Local	Code Enforcement Officer
<i>How does this reduce risk?</i> Minimize public and private losses due to flood conditions in specific areas; requires all new construction or substantial improvements in the SFHA be elevated at or above the BFE; however, this does not meet the state minimum requirement and has been identified as a mitigation action for the village.					
Wellhead Protection	Yes	No	August 1998	Local	Village Board
<i>How does this reduce risk?</i>					
Emergency Management Ordinance	No	-	-	-	-
<i>How does this reduce risk?</i> As per Livingston County Emergency Management Office					
Climate Change Ordinance	No	-	-	-	-
<i>How does this reduce risk?</i>					
Other		-			
<b>Planning Documents</b>					
Comprehensive Plan	Yes	No	February 2016	Local	Village Board
<i>How does this reduce risk?</i> The purpose of the Village of Caledonia Comprehensive Plan is to guide local officials and community members in making decisions that will affect the future of the Village. Future Village actions that will be based on the policies and recommendations in the Plan include revisions to zoning and other local laws and regulations, capital budgeting, and providing services to the community. The Comprehensive Plan addresses the full spectrum of issues facing the Village and balances competing needs and interests in the community.					
Capital Improvement Plan	Yes	No			Village Board
<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	No	-	-	-	-



	Jurisdiction has this? (Yes/No)	Required by State? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<i>How does this reduce risk?</i>					
Open Space Plan	No	-	-	-	-
<i>How does this reduce risk?</i>					
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	Yes	No	2016 Comprehensive Plan	Local	Village Board
<i>How does this reduce risk?</i>					
Part of the Village's Comprehensive Plan					
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	No	2016 Comprehensive Plan	Local	Village Board
<i>How does this reduce risk?</i>					
Part of the Village's Comprehensive Plan					
Agriculture Plan	No	-	-	-	-
<i>How does this reduce risk?</i>					
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	No	2016 Comprehensive Plan	Local	Village Board
<i>How does this reduce risk?</i>					
Other					
<b>Response/Recovery Planning</b>					
Emergency Operations 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>					
Continuity of Operations Plan	No	-	-	-	-
<i>How does this reduce risk?</i>					



	Jurisdiction has this? (Yes/No)	Required by State? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Public Health Plan	No	-	-	-	-
<i>How does this reduce risk?</i>					
Other	No	-	-	-	-

### Development and Permitting Capability

The table below summarizes the capabilities of the Village of Caledonia to oversee and track development.

**Table 9.5-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment
Do you issue development permits? <ul style="list-style-type: none"> <li>If yes, what department is responsible?</li> <li>If no, what is your process for development?</li> </ul>	Yes	Code Enforcement Office
Are permits tracked by hazard area? (For example, floodplain development permits.)	No	
Do you have a buildable land inventory? <ul style="list-style-type: none"> <li>If yes, describe.</li> <li>If no, quantitatively describe the level of buildout in the jurisdiction.</li> </ul>	No	

### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Village of Caledonia and their current responsibilities which contribute to hazard mitigation.

**Table 9.5-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	Yes	Rhett Clark
Zoning Board of Adjustments	Yes	William Hughes
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	DPW Street & Water
Construction/Building/Code Enforcement Department	Yes	Code Enforcement Officer
Emergency Management/Public Safety Department	Yes	Police for Public Safety
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	DPW Street & Water
Mutual aid agreements	No	-
Human Resources Manual	No	-
Other	No	-



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	Yes	MRB Group
Engineers or professionals trained in building or infrastructure construction practices	Yes	MRB Group
Planners or engineers with an understanding of natural hazards	Yes	MRB Group
Staff with expertise or training in benefit/cost analysis	No	
Professionals trained in conducting damage assessments	No	
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	
Scientist familiar with natural hazards	No	
Surveyor(s)	No	
Emergency Manager	No	
Grant writer(s)	No	Through the County
Resilience Officer	No	
Other (this could include stormwater engineer, environmental specialist, etc.)	No	

### Fiscal Capability

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

**Table 9.5-5. Fiscal Capabilities**

Financial Resources	Are these accessible or eligible to use for mitigation? (Yes/No) If yes, please describe. If no, can this be used to support in the future?
Community development Block Grants (CDBG, CDBG-DR)	Unsure
Capital improvements project funding	No
Authority to levy taxes for specific purposes	No
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	No
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	Yes if funds available
Open Space Acquisition funding programs	Yes if funds available
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	No

### Education and Outreach Capability

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





**Table 9.5-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/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.
Public information officer or communications office	No	-
Personnel skilled or trained in website development	Yes	Seth Graham Design
Is hazard mitigation information available on your website?	No	However it can be if needed.
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Other programs already in place that could be used to communicate hazard-related information	No	-
Warning Systems / Services (mass notification system, outdoor warning signals)	No	-
Natural disaster/safety programs in place for schools	No	-
Other	No	-

**Community Classifications**

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

**Table 9.5-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	Yes	4/4	April 9, 2021
Public Protection (ISO Fire Protection Classes 1 to 10)	No	-	-
NYSDEC Climate Smart Community	No	-	-
StormReady Certification	No	-	-
Firewise Communities classification	No	-	-
Other	No	-	-

Note:

- N/A Not applicable
- NP Not participating
- Unavailable

**Adaptive Capacity**

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). In other words, it describes a jurisdiction’s current capabilities to adjust to, protect from, or withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each hazard of concern and the jurisdiction’s rating.





**Table 9.5-8. Adaptive Capacity**

Hazard	Adaptive Capacity - Strong/Moderate/Weak*
Drought	Moderate
Earthquake	Moderate
Flood	Moderate
Hazardous Materials	Moderate
Invasive Species	Moderate
Landslide	Moderate
Mine Subsidence	Moderate
Pandemic	Moderate
Severe Storm	Strong
Severe Winter Storm	Strong
Wildfire	Moderate
Terrorism	Moderate
Utility Failure	Moderate

*\*Strong Capacity exists and is in use*

*Moderate Capacity may exist; but is not used or could use some improvement*

*Weak Capacity does not exist or could use substantial improvement*

### 9.5.4 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.

**Table 9.5-9. NFIP Summary**

Jurisdiction	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties	# SRL Properties	# Policies in the 1% Flood Boundary
Village of Caledonia	9	1	\$0.00	N/A	N/A	9
NFIP Topic				Comments		
<b>Flood Vulnerability Summary</b>						
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>				FEMA Firm Map Panel 36081 001 A – June 1, 1980		
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>				No		
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>				No		
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>				None		
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>				None		
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>				Yes		



Jurisdiction	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties	# SRL Properties	# Policies in the 1% Flood Boundary
Village of Caledonia	9	1	\$0.00	N/A	N/A	9
NFIP Topic				Comments		
<b>NFIP Compliance</b>						
What local department is responsible for floodplain management?				Village Code Enforcement 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?				No		
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?				Possibly		
Provide an explanation of NFIP administration services you provide (e.g. permit review, GIS, education/outreach, inspections, engineering capability)				The Village Retains MRB Group for Engineering design.		
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?				Site Plan Review		
What are the barriers to running an effective NFIP program in the community, if any?				Funding		
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)?				Unknown		
What is the local law number or municipal code of your flood damage prevention ordinance? What is the date that your flood damage prevention ordinance was last amended?				Chapter 121 – Flood Damage Prevention		
Does your floodplain management program meet or exceed minimum requirements? • If exceeds, in what ways?				At this time, it does not meet the state minimum bottom floor being elevated 2 feet above the BFE		
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?				No		
Does your jurisdiction participate in CRS? • If yes, is your jurisdiction interested in improving its CRS Classification? • If no, is your jurisdiction interested in joining the CRS program?				No		

Source: FEMA - Q3 Data; Livingston County HMP 2014

Notes:

RL Repetitive Loss; SRL Severe Repetitive Loss

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

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



### Evacuation Routes

The Village uses the main roads in and out of the community as evacuation routes if needed.

### Sheltering

The Village of Caledonia has not identified sites for sheltering residents after a disaster. In the event sheltering is needed, the Village will work with the County to find suitable locations.

### Temporary Housing

Site Name	Site Address	Infrastructure / Utilities Available (Water, electric, septic, etc.)	Capacity (Number of sites)	Type	Actions Required to Ensure Conformance with the NYS Uniform Fire Prevention and Building Code
Jones Hall	366 Leicester	Yes	Unsure	Building	Yes
Caledonia Mumford School	99 North Street	Yes	Unsure	Building	Yes
One Technology	1 Technology Place	Yes	Unsure	Parking Lot	Yes

### Permanent Housing

While the Village of Caledonia did not identify potential locations for permanent housing, as part of the planning process, a countywide buildable land analysis was conducted and presented in Section 4 (County Profile). The Village can utilize this analysis to identify potential locations.

## 9.5.6 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 understanding a jurisdiction’s overall risk to its hazards of concern. Table 9.5-10 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development. New and proposed development in the Village is not expected to impact vulnerability to hazards.

**Table 9.5-10. Recent and Expected Future Development**

Type of Development	2015		2016		2017		2018		2019		2020		2021	
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	Total	Within SFHA
Single Family	-	-	-	-	1	-	4	-	-	-	-	-	1	-
Multi-Family	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other (commercial, mixed-use, etc.)	-	-	-	-	-	-	2	-	2	-	-	-	1	-
<b>Total Permits Issued</b>	-	-	-	-	1	-	6	-	2	-	-	-	1	-
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or		Known Hazard Zone(s)*		Description / Status of Development						



block and lot)					
<b>Recent Major Development and Infrastructure from 2015 to Present</b>					
One Technology	Commercial	1	1 Technology Place	None	Approved by Planning & Zoning Board
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>					
None					

SFHA Special Flood Hazard Area (1% flood event)

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

### 9.5.7 Jurisdictional Risk Assessment

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

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



Figure 9.5-1. Village of Caledonia Flood and Mine Subsidence Hazard Areas

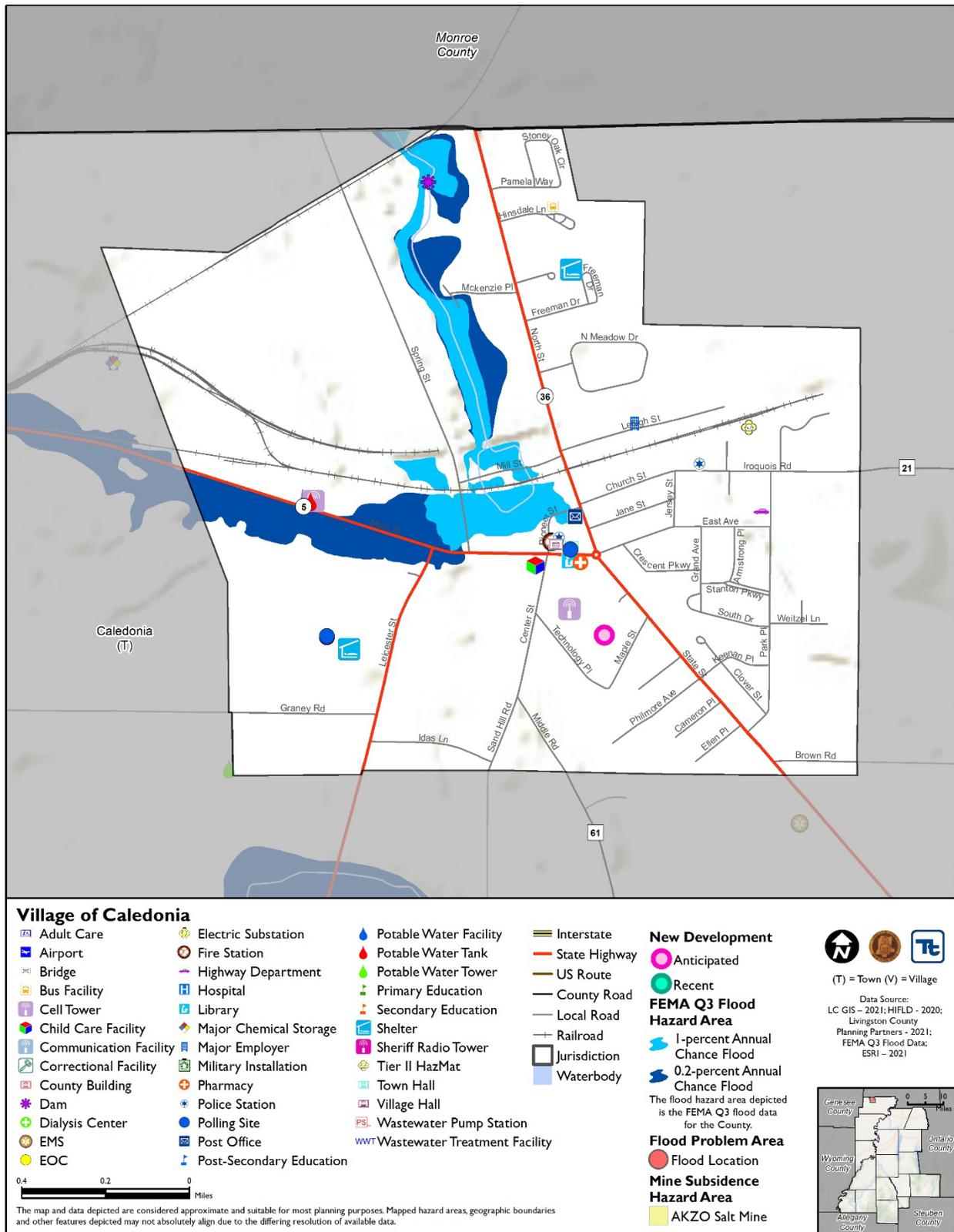




Figure 9.5-2. Village of Caledonia Hazmat and Wildfire Hazard Areas

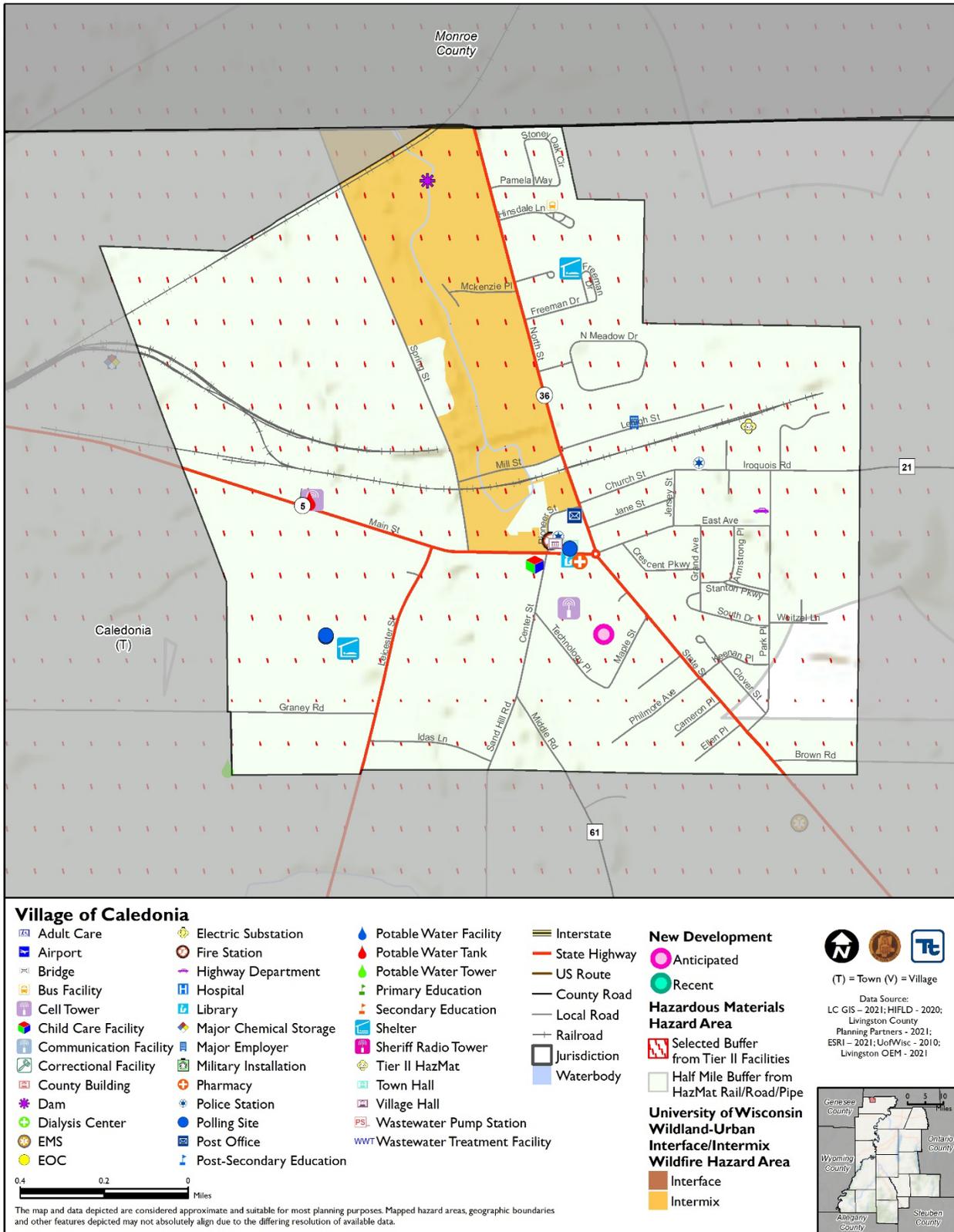
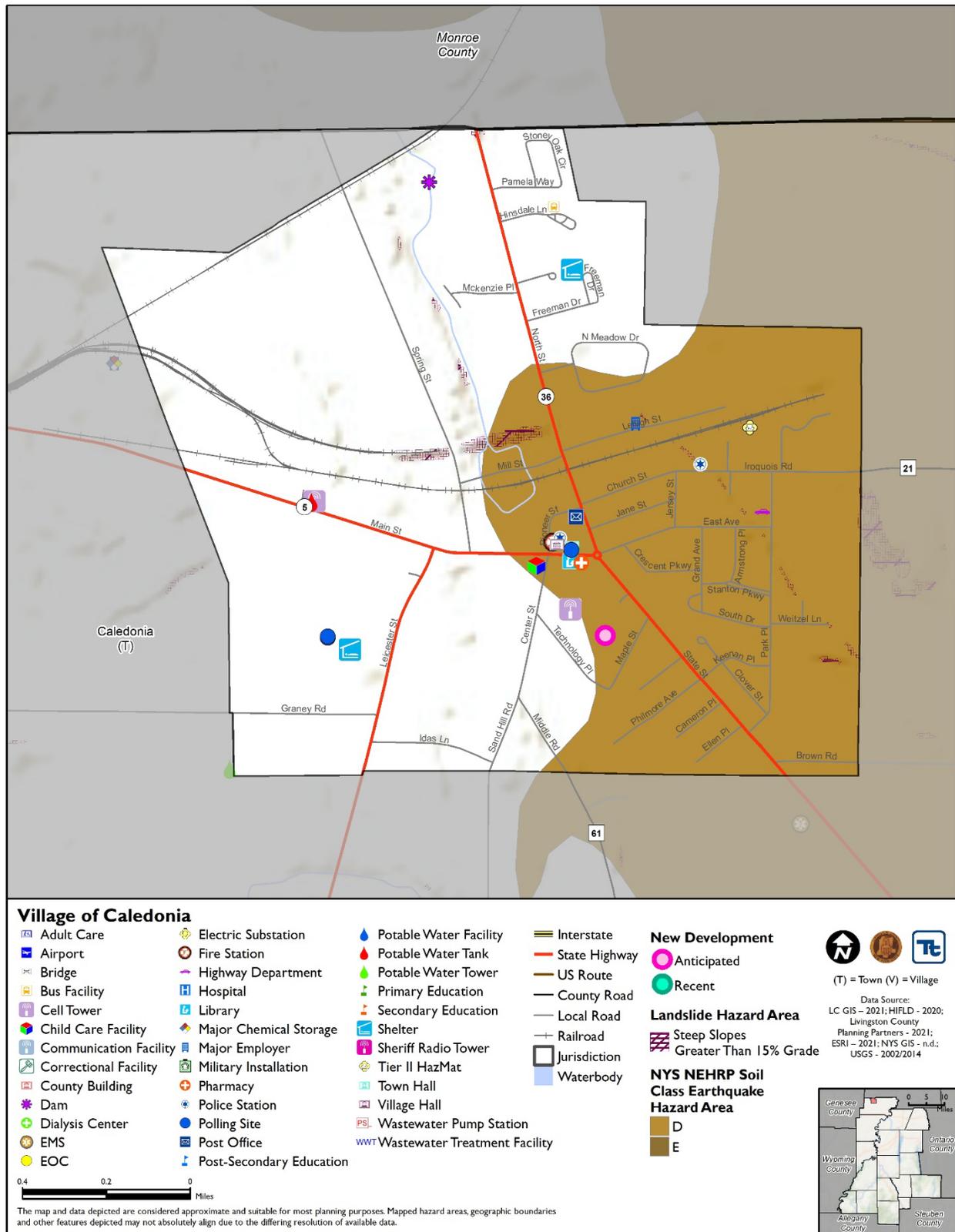




Figure 9.5-3. Village of Caledonia Earthquake and Landslide Hazard Areas





### Hazard Event History

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

The Village of Caledonia’s history of federally-declared (as presented by FEMA) and significant hazard events (as presented in NOAA-NCEI) is consistent with that of Livingston County. Table 9.5-11 provides details regarding municipal-specific loss and damages the Village 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. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.5-11. Hazard Event History

Dates of Event	Event Type (Disaster Declaration if applicable)	Emergency Declaration?	Municipal Summary of Damages and Losses
2020 & 2021	COVID 19 Pandemic	DR 3434 and 4480	Negative social, health, and economic impacts such as population loss, resident infections, resident deaths, mandatory business closures, school closings, decreases in the local labor market, and household supply shortages.
9/21/2018	Lightning	-	Facility/Structural Damage to the Police Station & Fire Hall Roof.

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 Section 5.0 (Risk Assessment) of this plan have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Village of Caledonia’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 Section 5 (Risk Assessment) of the plan. The ranking process involves an assessment of the likelihood of occurrence for each hazard, along with its potential impacts on people, property, and the economy as well as community capability and changing future climate conditions. This input supports the mitigation action development to target those hazards with highest level of concern.

As discussed in Section 5.3 (Hazard Ranking), each participating jurisdiction may have differing degrees of risk exposure and vulnerability compared to Livingston County as a whole. Therefore, each Village of Caledonia 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 Village of Caledonia. The Village of Caledonia has reviewed the county hazard risk/vulnerability risk ranking table as well as its individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Town agreed with the calculated rankings.





**Table 9.4-12. Hazard Ranking Input**

<b>Drought</b>	<b>Earthquake</b>	<b>Flood</b>	<b>Hazardous Materials</b>	<b>Invasive Species</b>	<b>Landslide</b>	<b>Mine Subsidence</b>
Low	High	Low	High	Medium	Low	Low
<b>Pandemic</b>	<b>Severe Storm</b>	<b>Severe Winter Storm</b>	<b>Wildfire</b>	<b>Terrorism</b>	<b>Utility Failure</b>	
Medium	High	Medium	Low	Low	High	

**Critical Facilities**

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazards United States (HAZUS) – Multi-Hazards (MH) estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.5-13. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action
		1% Event	0.2% Event	
NYS CONSERVATION DEPT DAM	Dam	X	X	

Source: Livingston County Planning Partners 2021; HIFLD 2020

**Identified Issues**

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

- West Main Street between Village line and Spring Street is a flood-prone area that can affect homes and business’s.
- Graney Road is a flood-prone area with the potential to affect homes.
- Pamela Way is a flood-prone area with the potential to affect homes.
- Spring Street Culvert. The failure of the culvert has the potential to affect traffic and the flow of the Spring Creek.
- Caledonia Commons is a flood-prone area that has the potential to affect business and traffic.

**9.5.8 Mitigation Strategy and Prioritization**

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

**Past Mitigation Initiative Status**

The following table indicates progress on the community’s mitigation strategy identified in the 2015 HMP. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under ‘Capability Assessment’ presented previously in this annex.



Table 9.5-14. 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 1. Cost 2. Level of Protection 3. Damages Avoided; Evidence of Success	Next Steps 1. Project to be included in 2022 HMP or Discontinue 2. If including action in the 2022 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
VC-1	Develop retention basins and storage areas with controlled outlets to alleviate repetitive flooding issues.	Flood, Severe Storm	None provided in the 2015 HMP	SWCD	No Progress	1. 2. 3.	1. Discontinue 2. - 3. No problem areas.
VC-2	Develop materials and conduct education and outreach to work with farmers to implement best management practices (BMP) to address stormwater runoff from fields.	Flood, Severe Storm	None provided in the 2015 HMP	County Planning Department	No Progress	1. 2. 3.	1. Discontinue 2. - 3. No working farms w/in village limits.
VC-3	Conduct a hydrilla management analysis to determine whether chemical treatments or the introduction of grass carp would be a more effective control measure.	Invasive Species	None provided in the 2015 HMP	County Planning Department	No Progress	1. 2. 3.	1. Discontinue 2. - 3. Our only water way is sourced from a natural spring.
VC-4	Implement hydrilla control measures to prevent the further spread of the invasive species and to eventually reduce its impact on the County's water systems.	Invasive Species	None provided in the 2015 HMP	County Planning Department	No Progress	1. 2. 3.	1. Discontinue 2. - 3. Our only water way is sourced from a natural spring.
VC-5	Support the mitigation of vulnerable structures via retrofit (e.g., elevation, flood-proofing) or acquisition/relocation to protect them from future damage; repetitive loss and severe repetitive loss properties should be a priority, when applicable.	Flood, Severe Storm, Wildfire, Winter Storm	None provided in the 2015 HMP	Engineering Department	No Progress	1. 2. 3.	1. Discontinue 2. - 3. Nothing identified at this time.
VC-6	Assess and prioritize feasible non-structural flood hazard mitigation alternatives for at-risk properties within the floodplain (including those that have been identified as repetitive loss) such as acquisition/relocation, or elevation. The parameters for feasibility for this initiative would include the following: funding, benefits versus costs, and willing participation of property owners. Implement as funding becomes available.	Flood, Severe Storm, Wildfire, Winter Storm	None provided in the 2015 HMP	Engineering Department	No Progress	1. 2. 3.	1. Discontinue 2. - 3. No at risk properties identified currently for 2021.
VC-7	Develop and implement an enhanced all-hazards, public outreach / education / mitigation information program on	All Hazards	None provided in the 2015 HMP	Village Supervisor's Office	No Progress	1. 2. 3.	1. Discontinue 2. -



Project #	Project	Hazard(s) Addressed	Brief Summary of the Original Problem	Responsible Party	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success 1. Cost 2. Level of Protection 3. Damages Avoided; Evidence of Success	Next Steps 1. Project to be included in 2022 HMP or Discontinue 2. If including action in the 2022 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
	natural hazard risks and what they can do in the way of mitigation and preparedness, including flood insurance.						3. Should refer to Livingston County Emergency Management Office.
VC-8	Maintain compliance with and good-standing in the NFIP including adoption and enforcement of floodplain management requirements (e.g., regulating all new and substantially improved construction in special-hazard flood areas), floodplain identification and mapping, and flood insurance outreach to the community. Further meet and/or exceed the minimum NFIP standards and criteria through the following NFIP-related continued compliance actions identified in subsequent initiatives.	Flood	None provided in the 2015 HMP	NFIP FPA	Choose an item.	1. 2. 3.	1. Discontinue 2. - 3. Non-applicable
VC-9	Support and participate in county-led initiatives intended to build local and regional mitigation and risk-reduction capabilities (see Section 9.1), specifically to ensure alignment of mitigation initiatives through all levels of government (effort to build state and federal-level recognition and support of the County and local hazard mitigation planning strategies identified in this plan).	All Hazards	None provided in the 2015 HMP	County Departments	Ongoing Capability	1. 2. 3.	1. Discontinue 2. - 3. Currently ongoing when available.
VC-10	Begin the process to promote or adopt higher regulatory and zoning standards to manage flood hazard risk; specifically through [examples]:	Flood	None provided in the 2015 HMP	NFIP FPA	No Progress	1. 2. 3.	1. Discontinue 2. - 3. No areas identified within the village limits.
VC-11	Develop and implement a post-event damage assessment program, including the following elements:	Flood; Severe Storm; Severe Winter Storm	None provided in the 2015 HMP	Engineering Department	No Progress	1. 2. 3.	1. Discontinue 2. - 3. No current areas identified.
VC-12	Support participation in the NFIP Community Rating System (CRS) program by attending CRS workshops if offered within the county. Join the CRS program if adequate resources to support long term participation can be dedicated.	Flood	None provided in the 2015 HMP	NFIP FPA	No Progress	1. 2. 3.	1. Discontinue 2. - 3. Non-applicable



Project #	Project	Hazard(s) Addressed	Brief Summary of the Original Problem	Responsible Party	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success 1. Cost 2. Level of Protection 3. Damages Avoided; Evidence of Success	Next Steps 1. Project to be included in 2022 HMP or Discontinue 2. If including action in the 2022 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
	See following related Community Assistance Visit (CAV) initiative.						
VC-13	Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed. This is a part of the process of joining CRS (above initiative).	Flood	None provided in the 2015 HMP	NFIP FPA	No Progress	1. 2. 3.	1. Discontinue 2. - 3. At this time we are unaware of CRS, CAV and CAC.
VC-14	Designate a NFIP Floodplain Administrator (FPA), and other local officials who would benefit, become a Certified Floodplain Manager (CFM) through the Association of State Floodplain Managers (ASFPM) and New York State Stormwater and Floodplain Managers Association (NYSSFMA), and pursue relevant continuing education training such as FEMA Benefit-Cost Analysis (BCA) and Substantial Damage Estimation (SDE).	Flood	None provided in the 2015 HMP	NFIP FPA	No Progress	1. 2. 3.	1. Discontinue 2. - 3. Not applicable within the village.
VC-15	Develop and maintain mapping of all natural hazard risk areas in the Village, FEMA-delineated or otherwise, to support land use decision making (e.g., Planning Board, site plan review process.).	Flood, Wildfire	None provided in the 2015 HMP	Engineering Department	No Progress	1. 2. 3.	1. Discontinue 2. - 3. Not needed within the village.
VC-16	Work with County and power companies to identify roads within the Village considered “critical” would be the first priority for clearing after an event involving downed power lines.	Severe Storm; Severe Winter Storm	None provided in the 2015 HMP	Engineering Department	Ongoing Capability	1. 2. 3.	1. 2. We can identify through roads. 3.
VC-17	Enhance or expand tree maintenance program and coordinate with utility companies.	Severe Storm; Severe Winter Storm	None provided in the 2015 HMP	Engineering Department	Ongoing Capability	1. 2. 3.	1. Discontinue 2. - 3. Ongoing with DPW and utilities.
VC-18	Work with utility companies and developers to bury utility lines underground, wherever possible.	Severe Storm; Severe Winter Storm	None provided in the 2015 HMP	Engineering Department	No Progress	1. 2. 3.	1. Discontinue 2. - 3. Non-applicable



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

Other than what is presented in Table 9.4-14, the Village of Caledonia did not complete any additional mitigation projects/activities since the 2015 HMP.

**Proposed Hazard Mitigation Initiatives for the HMP Update**

The Village of Caledonia participated in a mitigation action workshop in September 2021 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.

**Table 9.5-15. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Drought										
Earthquake										
Flood	X	X			X	X		X		
Hazardous Materials	X				X		X			
Invasive Species										
Landslide										
Mine Subsidence										
Pandemic										
Severe Storm	X	X			X	X		X		
Severe Winter Storm										
Wildfire										
Terrorism										
Utility Failure										

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

Table 9.5-16 summarizes the comprehensive range of specific mitigation initiatives the Village of Caledonia would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below to further demonstrate the wide range of activities and mitigation measures selected.

As discussed in Section 6, 14 evaluation/prioritization criteria are used 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 your actions as ‘High’, ‘Medium’, or ‘Low.’ The table below summarizes the evaluation of each mitigation initiative, listed by Action Number.



Table 9.5-16. Proposed Hazard Mitigation Initiatives

Project Number	Mitigation Initiative Name	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Hazard(s) to be Mitigated	Goals Met	Estimated Timeline	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Costs	Priority	Mitigation Category	CRS Category
2022-Village of Caledonia-001	Stormwater Flooding in the Village	<b>Problem:</b> Stormwater flooding throughout the Village  <b>Solution:</b> Conduct a feasibility study to identify areas of concern. Once identified, the Village will replace any undersized stormwater piping & replace any deteriorating culverts.	No	No	Flood, Severe Storm	1, 2	Within 2 years	Public Works	FEMA HMGP and FMA, Village Budget	Reduce flood concerns; increase stormwater capacity	\$60,000+	Medium	LPR, SIP	PR, PP, NR
2022-Village of Caledonia-002	Hazmat Concerns with Jones Chemicals	<b>Problem:</b> The Village has concerns with hazmat spills associated with Jones Chemicals. A spill at this facility could lead to contamination and health hazards for the community.  <b>Solution:</b> Work with Jones Chemicals to form an emergency plan should a spill occur in the Village.	Yes	No	Hazardous Materials	1, 2	Within 1 year	Village Board, Emergency Services, Jones Chemicals	Village Budget	Identify potential hazards; implement procedures in case of spill	Staff Time	Medium	LPR	PI, PR
2022-Village of Caledonia-003	Spring Street Culvert	<b>Problem:</b> Spring Street Culvert that crosses the Spring Creek Headwaters is in need of upgrading.  <b>Solution:</b> Three-sided concrete box culvert that would provide ample stream flow during flooding events. It would also provide a natural stream bottom for trout spawning and other critical stream life.	No	No	Flood, Severe Storm	1, 2	Within 2 years	Public Works	FEMA HMGP and FMA, BridgeNY, Village Budget	Reduce flood concerns; increase culvert capacity	\$45,000+	Medium	LPR, SIP	PP, PR, NR



Project Number	Mitigation Initiative Name	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Hazard(s) to be Mitigated	Goals Met	Estimated Timeline	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Costs	Priority	Mitigation Category	CRS Category
2022-Village of Caledonia-004	Pamela Way Flooding	<b>Problem:</b> Pamela Way flooding concerns during periods of heavy rain  <b>Solution:</b> Fill in low area of the street to allow storm water to be conveyed to an outfall area.	No	No	Flood, Severe Storm	1, 2	Within 3 years	Village Public Works	FEMA HMGP, BridgeNY, Village Budget	Increase stormwater capacity; reduce flooding	\$25,000+	High	SIP	PR, PP
2022-Village of Caledonia-005	Caledonia Commons Drainage	<b>Problem:</b> Caledonia Commons and business district drainage concerns.  <b>Solution:</b> Partner with the NYSDOT to identify a drainage outfall area that would benefit the Commons and the business district of the Village and reduce flooding.	No	No	Flood, Severe Storm	1, 2	Within 3 years	Village Public Works and NYSDOT	FEMA HMGP, BridgeNY, Village Budget	Increase stormwater capacity; reduce flooding	\$25,000+	High	SIP	PR, PP
2022-Village of Caledonia-006	Graney Road Drainage	<b>Problem:</b> Graney Road drainage issues during heavy spring rain and snow melt.  <b>Solution:</b> Redirect run-off from agricultural fields to ease the burden on roadside ditches.	No	No	Flood, Severe Storm	1, 2	Within 3 years	Village Public Works	FEMA HMGP, BridgeNY, Village Budget	Increase stormwater capacity; reduce flooding	\$25,000+	High	SIP	PR, PP
2022-Village of Caledonia-007	Update Flood Damage Prevention Ordinance	<b>Problem:</b> The Village lacks an updated flood damage prevention ordinance.  <b>Solution:</b> The Village will adopt an updated flood damage prevention ordinance to meet state and federal NFIP standards.	No	No	Flood	1, 2	Within 6 months	NFIP Floodplain Administrator, Town Board	Village Budget	Meeting state and federal standards	Staff time	High	LPR	PR
2022-Village of Caledonia-008	NFIP Administrator Training	<b>Problem:</b> The floodplain administrator for the Village is in need of training and resources to understand the NFIP program and flooding in the Village.	No	No	Flood	1, 2, 3	Within 1 year	NFIP Floodplain Administrator, NYSDEC	Village Budget	Increase education and training on floods in the Village	Staff time	High	LPR	PR





Project Number	Mitigation Initiative Name	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Hazard(s) to be Mitigated	Goals Met	Estimated Timeline	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Costs	Priority	Mitigation Category	CRS Category
		<p><b>Solution:</b> The floodplain administrator will review the list of upcoming trainings on the NYSDEC website and sign up to attend. This will allow the administrator to understand their role in administering the program and learning about the NFIP.</p>												
2022-Village of Caledonia-009	Critical Facilities in Floodplain	<p><b>Problem:</b> There is one dam located in the 1% annual chance flood area and are susceptible to flood damages. The Village does not have jurisdiction over these facilities.</p> <p><b>Solution:</b> The Village will conduct outreach to the facility owners/operators to inform them of their location in the floodplain and provide mitigation options to protect the structures from flood damage.</p>	Yes <span style="color: blue;">💧</span>	No	Flood	1, 2, 3	1 year	Code Enforcement	Village Budget	Education and outreach, protect structures from flood damage	Staff Time	Medium	LPR, EAP	PR, PI

**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

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.





NFIP National Flood Insurance Program  
OEM Office of Emergency Management

Critical Facility:

Yes  Critical Facility located in 1% floodplain

Mitigation Category:

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

CRS Category:

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



Table 9.5-17. 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
2022-Village of Caledonia-001	Stormwater Flooding in the Village	1	1	1	1	1	0	0	1	0	0	1	1	0	0	8	Medium
2022-Village of Caledonia-002	Hazmat Concerns with Jones Chemicals	1	1	1	1	1	0	0	1	0	0	1	1	0	0	8	Medium
2022-Village of Caledonia-003	Spring Street Culvert	1	1	1	1	1	0	0	1	0	0	1	1	0	0	8	Medium
2022-Village of Caledonia-004	Pamela Way Flooding	1	1	1	1	1	0	0	1	0	0	1	1	0	0	8	High
2022-Village of Caledonia-005	Caledonia Commons Drainage	1	1	1	1	1	0	0	1	0	0	1	1	0	0	8	High
2022-Village of Caledonia-006	Graney Road Drainage	1	1	1	1	1	0	0	1	0	0	1	1	0	0	8	High
2022-Village of Caledonia-007	Update Flood Damage Prevention Ordinance	1	1	1	1	1	0	1	0	0	1	0	1	1	0	9	High
2022-Village of Caledonia-008	NFIP Administrator Training	1	1	1	1	1	0	1	0	0	1	0	1	1	0	9	High
2022-Village of Caledonia-009	Critical Facilities in Floodplain	1	1	1	1	0	0	1	0	0	1	0	1	0	0	7	Medium

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



### 9.5.9 Action Worksheets

The following action worksheets have been developed by the Village of Caledonia to aid in the submittal of grant applications to support the funding of high priority proposed actions.

Action Worksheet			
<b>Project Name:</b>	Stormwater Flooding in the Village		
<b>Project Number:</b>	2022-Village of Caledonia-001		
<b>Risk / Vulnerability</b>			
<b>Hazard(s) of Concern:</b>	Flood, Severe Storm		
<b>Description of the Problem:</b>	Stormwater flooding throughout the Village		
<b>Action or Project Intended for Implementation</b>			
<b>Description of the Solution:</b>	Conduct a feasibility study to identify areas of concern. Once identified, the Village will replace any undersized stormwater piping & replace any deteriorating culverts.		
<b>Is this project related to a Critical Facility?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
<b>Is this project related to a Critical Facility located within the Special Flood Hazard Area?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect to the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
<b>Level of Protection:</b>	20-year	<b>Estimated Benefits (losses avoided):</b>	Reduce flood concerns; increase stormwater capacity
<b>Useful Life:</b>	15 years	<b>Goals Met:</b>	1, 2
<b>Estimated Cost:</b>	\$60,000+	<b>Mitigation Action Type:</b>	LPR, SIP
<b>Plan for Implementation</b>			
<b>Prioritization:</b>	Medium	<b>Desired Timeframe for Implementation:</b>	Within 6 months of funding award
<b>Estimated Time Required for Project Implementation:</b>	Within 2 years	<b>Potential Funding Sources:</b>	FEMA HMGP and FMA, Village Budget
<b>Responsible Organization:</b>	Public Works	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard Mitigation, Capital Improvement
<b>Three Alternatives Considered (including No Action)</b>			
<b>Alternatives:</b>	<b>Action</b>	<b>Estimated Cost</b>	<b>Evaluation</b>
	No Action	\$0	Problem continues.
	Acquire all properties in area	\$1 million+	Costly; not necessary; loss tax base
	Upgrade and replace pipes and culverts	\$60,000+	Selected project
<b>Progress Report (for plan maintenance)</b>			
<b>Date of Status Report:</b>			
<b>Report of Progress:</b>			
<b>Update Evaluation of the Problem and/or Solution:</b>			



Evaluation and Prioritization		
<b>Project Name:</b>	Stormwater Flooding in the Village	
<b>Project Number:</b>	2022-Village of Caledonia-001	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protect residents in the floodprone areas
Property Protection	1	Reduce or eliminate flood damage to buildings in this area
Cost-Effectiveness	1	Benefits outweigh the costs
Technical	1	
Political	1	
Legal	0	
Fiscal	0	Need funding to complete project
Environmental	1	
Social	0	
Administrative	0	
Multi-Hazard	1	Flood, Severe Storm
Timeline	1	To be completed within 2 years
Agency Champion	0	
Other Community Objectives	0	
<b>Total</b>	8	
<b>Priority (High/Med/Low)</b>	Medium	



Action Worksheet			
<b>Project Name:</b>	Spring Street Culvert		
<b>Project Number:</b>	2022-Village of Caledonia-003		
<b>Risk / Vulnerability</b>			
<b>Hazard(s) of Concern:</b>	Flood, Severe Storm		
<b>Description of the Problem:</b>	Spring Street Culvert that crosses the Spring Creek Headwaters is in need of upgrading.		
<b>Action or Project Intended for Implementation</b>			
<b>Description of the Solution:</b>	Three-sided concrete box culvert that would provide ample stream flow during flooding events. It would also provide a natural stream bottom for trout spawning and other critical stream life.		
<b>Is this project related to a Critical Facility?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
<b>Is this project related to a Critical Facility located within the Special Flood Hazard Area?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect to the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
<b>Level of Protection:</b>	20-year	<b>Estimated Benefits (losses avoided):</b>	Reduce flood concerns; increase culvert capacity
<b>Useful Life:</b>	25 years	<b>Goals Met:</b>	1, 2
<b>Estimated Cost:</b>	\$45,000+	<b>Mitigation Action Type:</b>	LPR, SIP
<b>Plan for Implementation</b>			
<b>Prioritization:</b>	Medium	<b>Desired Timeframe for Implementation:</b>	Within 6 months of funding award
<b>Estimated Time Required for Project Implementation:</b>	Within 2 years	<b>Potential Funding Sources:</b>	FEMA HMGP and FMA, BridgeNY, Village Budget
<b>Responsible Organization:</b>	Public Works	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard Mitigation, Capital Improvement
<b>Three Alternatives Considered (including No Action)</b>			
<b>Alternatives:</b>	<b>Action</b>	<b>Estimated Cost</b>	<b>Evaluation</b>
	No Action	\$0	Problem continues.
	Acquire all properties in area	\$1 million+	Costly; not necessary; loss tax base
	Upgrade culverts	\$45,000+	Selected project
<b>Progress Report (for plan maintenance)</b>			
<b>Date of Status Report:</b>			
<b>Report of Progress:</b>			
<b>Update Evaluation of the Problem and/or Solution:</b>			



Evaluation and Prioritization		
<b>Project Name:</b>	Backup Power for Town Hall	
<b>Project Number:</b>	2022-Town of Avon-002	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	Benefits outweigh the costs
Technical	1	
Political	1	There is political support for this projects
Legal	0	
Fiscal	0	Need funding to purchase and install generator
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	1	To be completed within 3 years
Agency Champion	1	
Other Community Objectives	0	
<b>Total</b>	9	
<b>Priority (High/Med/Low)</b>	High	