

Town of Albion

Jurisdictional Annex

Town of Albion

1.0 Contacts

The contacts for the Town of Albion regarding this plan are identified as follows:

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2.0 Municipal Profile

Population

The 2016 American Community Survey estimated that 2,484 people live in the Town of Albion. The Town's population has increased by 19.3% since the 2000 Census population (2,083) (U.S. Census Bureau, 2016).

Location

The Town of Albion is located in the northern portion of Oswego County and is bordered by the Town of Richland to the west and north, Orwell to the north, Williamstown to the east, and Parish to the south. Albion is easily accessed from Interstate 81 and State Route 104.

Brief History

The Town of Albion was formed in 1825. The former Village of Altmar, which was located in the northern part of the Town of Albion, was officially dissolved in 2013 and is now part of the Town. The Town of Albion was originally occupied by the Oneida Indians, who seasonally hunted and fished in the area. The Rome, Watertown, and Oswego Railroad was constructed in the northern part of the Town in 1851, with a station in the former Village of Sand Bank, stimulating development. Post-settlement, the primary industry was lumbering, and a

number of sawmills were in operation by the mid-1800s. As more land was cleared, agriculture became the predominant industry. Tourism is popular today with the NYSDEC Salmon River Fish Hatchery, which draws thousands of visitors to the area annually (Gardner, 2016).

Governing Body

The Town of Albion is governed by a five (5)-member Town Board, led by the Supervisor.

Future Growth

Since the last County HMP (2012), Tailwater Lodge, a hotel on the Salmon River, was constructed in the Town of Albion at the site of the former Altmar Elementary School, which closed in 2012. The facility opened in February 2014, and was expanded in 2017. The parcel on which the hotel was built intersects the 100-year floodplain but the hotel itself is above the floodplain elevation. No other significant commercial or residential developments have occurred in the Town since 2012.

3.0 Hazard Vulnerabilities and Ranking

3.1. Risk Assessment

The following scale was developed to determine hazard vulnerability for the jurisdiction. Each event was given a ranking from one (1) through three (3) for the severity of impact based on extent, onset warning, impact in damages and injury, and frequency: three (3) represents the greatest impact (large area, no warning, severe damage, and regular occurrence); (2) represents moderate impact (several locations, hours of warning, moderate damage, and infrequent occurrence); and one (1) represents low impact (one location, days of warning, minor damage, and rare occurrence). The scores for each of these four (4) categories were used to assign an overall vulnerability for each hazard, as follows:

- Low: 5 or less
- Moderate: 6 to 8
- High: 9 or greater

Table 1: Hazard Vulnerability by Event						
Hazard Event	Extent	Onset	Impact (Damages and Injury)	Frequency	Vulnerability Rank	Jurisdiction Rank
Flood	3	2	3	3	High	1
Dam Failure	1	3	2	1	Moderate	2
Severe Winter Storm	3	1	2	3	High	3
Severe T-Storm/Wind/Tornado	3	1	3	2	High	4
Ice Storm	3	1	3	2	High	5
Drought	3	1	2	1	Moderate	6
Earthquake	2	3	2	1	Moderate	7

3.2. Critical Facilities

Critical facilities are defined as any facility that is critical for emergency response or that requires special emergency response in the event of hazardous incidents as identified by the Town of Albion. Table 2, below, denotes the types and locations of critical facilities within the Town.

Table 2: Critical Infrastructure in the Town of Albion			
Facility Name	Address (Street, Town/Town/Hamlet)	Parcel Located in Floodplain	Structure Located in Floodplain
Transportation Network			
Evacuation Routes	-	-	-
Bridges	-	-	-
Municipal Services			
Albion Municipal Building, Fire Dept.	15 Bridge St., Altmar, NY 13302	No	No
Town of Albion Highway Garage	1594 CR 22, Altmar, NY 13302	No	No
Community Services			
U.S. Post Office	1964 Mexico St., Altmar, NY 13302	No	No
Tailwater Lodge	52 Pulaski St, Altmar, NY 13302	100YR	No
Public Utilities			
Cell Tower	off of NY-104	No	No
Dams			
Dam 080-5221	Salmon River at NY-13	-	-
Perle Trumble Jr Wildlife Marsh Dam #1	Trib. to Grindstone Creek, off of South Albion Road	-	-
Perle Trumble Jr Wildlife Marsh Dam #2	Trib. to Grindstone Creek, off of South Albion Road	-	-
Eva Blakeman Wildlife Marsh Dam	Trib. to Grindstone Creek, off of Austin Road	-	-
Mosher Dam	North Branch Grindstone Creek, in Happy Valley WMA off of NY-104	-	-

Table 2: Critical Infrastructure in the Town of Albion

Facility Name	Address (Street, Town/Town/Hamlet)	Parcel Located in Floodplain	Structure Located in Floodplain
Joseph Goldman Dam	Trib. to Grindstone Creek at Barber Road	-	-
Frederick Britton Wildlife Marsh Dam	North Branch Salmon River, in Happy Valley WMA off of NY-104	-	-
Frederick Britton Wildlife Pond Dam	Trib. to North Branch Little Salmon River off of NY-104	-	-
Happy Valley Dam #1	Trib. to Little Salmon River, in Happy Valley WMA off of NY-104	-	-
Happy Valley Dam #4	Trib. to North Branch Little Salmon River, in Happy Valley WMA off of NY-104	-	-
Happy Valley Dam #5	Trib. to Grindstone Creek, in Happy Valley WMA off of NY-104	-	-
James Barnard Wildlife Marsh Dam	Trib. to Beaver Dam Brook, off of Sloperville Road	-	-

4.0 Priority Hazard Events

The following sections detail the priority hazard events identified by the jurisdiction. Additional information about each hazard including frequency, history, and severity within Oswego County is included within Section 5.0 of the main body of the Hazard Mitigation Plan (Volume I).

The probability of climate-related hazard events is expected to increase in the future within the Town of Albion. Climate change is expected to cause an increase in weather volatility, rising sea level, and greater temperature extremes. Properties along the Salmon River, its tributaries, and tributaries to Grindstone Creek are likely to experience increased flooding occurrences.

Past occurrences of hazard events are indicated in their respective profiles below. Some hazards may not have locally available documentation of past occurrence, but were included in this annex for future mitigation planning consideration.

4.1 Natural Hazards

Natural hazards selected to be profiled for the Town of Albion are described in detail below.

4.1.1 Flood

For a description of this hazard, please see Section 5.1.2 of the main body of the plan.

Hazard Vulnerability

The Town is generally drained by the Salmon River and tributaries to Grindstone Creek (Little Grindstone Creek and North and South Branch Grindstone Creek), which drain to Lake Ontario. FEMA's Flood Insurance Mapping Program designates areas that are at risk for flooding. Low flood risk are areas unlikely to flood, moderate risk are areas within the 500-year floodplain (0.2% likely to flood in any given year), and high risk are areas that frequently flood, up to the 100-year flood risk zone (1% likely to flood in any given year). Table 3 summarizes the amount of land within the Town of Albion that is located within 100-year and 500-year floodplains and low-risk flood areas.

Table 3: Summary of Areas in Floodplains (Source: FEMA DFIRM 2011)			
Town of Albion Total Area	Percent of Total Area		
	100-Year Floodplain	500-Year Floodplain	Area of Minimal Flood Hazard
30,662 acres	16.7%	0.0004%	83.3%

Table 4 below summarizes the value of properties in the Town of Albion that are located within the 100-year floodplain and is categorized by land use type. This table was derived from FEMA floodplain mapping and parcel data from the Oswego County Real Property Tax Office.

Table 4: Parcels within to 100-year Flood Events and Their Estimated Structure Values				
Type of Structure	# Parcels in 100-Year Floodplain	Approx. Structure Value* in 100-Year Floodplain	# Parcels in 500-Year Floodplain	Approx. Structure Value* in 500-Year Floodplain
Agricultural	16	\$1,077,900	0	-
Commercial	14	\$4,736,900	0	-
Community Services	9	\$1,400	0	-
Industrial	16	\$1,077,900	0	-
Residential	235	\$13,284,100	0	-
Utility	0	-	0	-
Other**	292	\$3,398,500	1	\$0
Total	566	\$22,498,800	1	\$0
*Structure Value estimated by subtracting parcel's Land Assessed Value from Total Assessed Value (Oswego County Real Property Tax Office, 2018)				
**Includes parcels classified as vacant; recreational; and wild forest/conservation land/parks.				

Historical Hazard Occurrences and Damage Estimates

According to NOAA's Storm Events Database, in the past fifteen (15) years, one (1) flood record was noted to specifically impact the Town of Albion. This event occurred on September 30, 2010 and involved flash flooding occurred along the Salmon River from Redfield to Lake Ontario after heavy rains the day before (3.2 inches of rain fell overnight) and a release of 16,000 to 17,000 CFS from two Brookfield Power hydroelectric stations. The high water levels caused several road closures in the Town, of Albion and the NCDC estimated total damages for this event in the Town to be \$17,000. The Town has also been impacted by county-wide events described in Section 5.1.2 of the main body of the plan.

As described in Section 6.0 of this annex, nine (9) NFIP loss claims have been paid as of November 2017 in the Town of Albion (including claims filed within the former Village of Altmar) totaling \$77,513.56. There is one (1) severe repetitive loss property in the former Village of Altmar limits, which is a single family residence. The property has incurred six (6) flood related losses, with a total of \$55,744.89 in building damages. No content damage payments were reported.

Future Potential Impacts

Properties along streams throughout the Town, including the Salmon River and its tributaries and tributaries to Grindstone Creek are vulnerable to flooding. About 16.7% of the Town of Albion is within a mapped 100-year floodplain. In addition, one (1) critical facility, Tailwater Lodge, is located on a parcel that intersects a 100-year floodplain (Table 2), but the facility itself is not within the floodplain.

4.1.2 Severe Winter Storm

For a description of this hazard, please see Section 5.1.4 of the main body of the plan.

Hazard Vulnerability

Severe winter storms typically occur about eleven (11) times annually in Oswego County. These storms typically affect most or all of the County. The entire Town of Albion is susceptible to damages from a severe winter storm event. The Town Highway Dept. clears Town streets during heavy snow events, and the Town works with the Oswego County Highway Dept. and NYS Dept. of Transportation for clearing of other roadways. Roadway safety is a major concern during severe winter storm events.

Historical Hazard Occurrences and Damage Estimates

The Town of Albion has been affected by a number of county-wide severe winter storm events, described in Section 5.1.4 of the main body of the plan. Severe winter storms typically occur several times annually in Oswego County. These storms typically affect most or all of the County. The NCDC does not report any winter storm records or damage estimates specific to the Town of Albion.

Future Potential Impacts

The Town of Albion will continue to experience severe winter storm events in the future. Severe winter storms are common throughout Oswego County and occur about eleven (11) times annually. The severity and frequency of severe winter storms may increase due to climate change.

4.1.3 Severe Thunderstorm, Wind, or Tornado

For a description of these hazards, please see Section 5.1.1 of the main body of the plan.

Hazard Vulnerability

The entire Town is susceptible to damages from a severe thunderstorm, wind, or tornado or coastal storm event. Fallen trees from severe winds can damage overhead utility lines, resulting in power outages. In addition, these events are likely to result in damages to private and public infrastructure and property.

Historical Hazard Occurrences and Damage Estimates

In addition to the 101 severe storm events reported within Oswego County, the NCDC reports twelve (12) specific severe storm events that occurred in the Town of Albion between 1998 and 2017 (frequency of about once every one to two years). Three (3) of these records were hail events (two events occurred on the same date), and nine (9) were thunderstorm winds. Estimated damages for the Town of Albion ranged from \$5,000 to \$45,000 per event (Table 5). Actual damages were likely greater than those estimated by the NCDC.

Table 5: Severe Storm Event Records for the Town of Albion				
Event Type	Date	Magnitude	Estimated Property Damage	Estimated Crop Damage
Thunderstorm Wind	8/24/1998	-	\$12,000.00	-
Thunderstorm Wind	6/27/2002	51 kts	\$10,000.00	-
Hail	7/1/2004	1 inch	\$5,000.00	-
Thunderstorm Wind	6/29/2008	50 kts	\$15,000.00	-
Thunderstorm Wind	9/2/2013	50 kts	\$15,000.00	-
Thunderstorm Wind	7/8/2014	55 kts	\$10,000.00	-
Thunderstorm Wind	9/9/2015	60 kts	\$45,000.00	-
Thunderstorm Wind	10/17/2016	50 kts	\$15,000.00	-
Thunderstorm Wind	5/1/2017	52 kts	\$10,000.00	-
Hail	5/18/2017	1.5 inches	-	-
Hail	5/18/2017	1.75 inches	-	-
Thunderstorm Wind	8/22/2017	50 kts	\$10,000.00	-
Total			\$147,000	-

Future Potential Impacts

Severe storms are a common event in the Town of Albion and will continue to occur in the future. The frequency and magnitude of severe storm events may increase due to climate change.

4.1.4 Ice Storm

For a description of this hazard, please see Section 5.1.3 of the main body of the plan.

Hazard Vulnerability

Historically, ice storms have occurred about once every seven (7) years in Oswego County. These storms typically affect most or all of the County. The entire Town of Albion is susceptible to damages from an ice storm event.

Historical Hazard Occurrences and Damage Estimates

The Town of Albion was affected by the three (3) county-wide ice storm events recorded by the NCDC, which are described in Section 5.1.3 of the main body of the plan. No damage estimates or records related to ice storms are reported specifically for the Town of Albion.

Future Potential Impacts

The Town of Albion will continue to experience ice storm events in the future, as will the rest of Oswego County. The Town Highway Dept. completes tree maintenance within Town road right of ways to minimize potential damages to overhead utility lines, which is common during ice storms. Private utility right of ways are generally maintained by the individual utility companies.

4.1.5 Drought

Droughts are extended periods of time with unusually low precipitation, which lead to a limited water supply and crop losses. Drought periods progress through stages and drought intensity may vary considerably during the drought period. The time of occurrence and duration can cause significant variations in drought impacts. Droughts are categorized by the U.S. Drought Monitor in five (5) levels based on severity:

- Category D0: Abnormally dry conditions; may lead to a drought.
- Category D1: Moderate drought; some damages to crops and pasture may occur, water levels are low.
- Category D2: Severe drought; crop losses and water shortages are likely to occur.
- Category D3: Extreme drought; major crop losses and widespread water shortages.
- Category D4: Exceptional drought; extreme crop losses and water emergencies result.

Hazard Vulnerability

The entire Town of Albion is moderately susceptible to a drought due to the widespread extent and potential to cause moderate damages. Agricultural areas and private wells would experience the most significant impacts. Town residents rely on public wells and are susceptible to low water yields during a drought.

Historical Hazard Occurrences and Damage Estimates

There are no drought records specifically reported for the Town of Albion. The Town was impacted by a drought in the late summer and fall of 2016, which affected the entire County.

Future Potential Impacts

The entire Town of Albion remains susceptible to a drought event. While drought events only occur occasionally, they are likely to increase in frequency and magnitude in the future due to climate change.

4.1.6 Earthquake

An earthquake is a sudden motion or trembling that is caused by a release of strain accumulated within or along the edge of Earth's tectonic plates. They usually occur without warning and after just a few seconds can cause massive damage and extensive casualties. The most seismically active regions in New York State are in the Adirondacks and near the Canadian border along the St. Lawrence River followed by the New York City and the Buffalo, Niagara, and Attica regions.

Hazard Vulnerability

Earthquakes are a rare occurrence, and there are no records of earthquakes originating in Oswego County. An inactive fault line runs underneath the county. Earthquakes originating in other portions of the state have been felt in Oswego County. The Town of Albion is moderately susceptible to a potential earthquake event, due to the lack of warning and moderate extent and damages associated with this hazard.

Historical Hazard Occurrences and Damage Estimates

There are no historical records of earthquakes occurring in the Town of Albion. The Town of Amboy, which is southeast of the Town of Albion, experienced damages to their fire station due to an earthquake originating in Au Sable Forks, NY on April 20, 2002. An earthquake has the potential to cause hundreds of thousands of dollars in damages.

Future Potential Impacts

The Town of Albion is susceptible to future earthquake events affecting Oswego County. However, earthquakes are expected to remain a rare event in Oswego County and pose a very low risk to the County and its jurisdictions.

4.2 *Technological Hazards*

Technological hazards selected to be profiled by the Town of Albion are described in detail below.

4.2.1 Dam Failure

Hazard Vulnerability

Dam failures can be attributed to natural or man-made hazards. The impoundment of large volumes of water poses a threat; the failure of a dam can lead to catastrophic flooding. The New York State Department of Environmental Conservation (NYSDEC) maintains a database to classify dams based on the event of a failure. Explanations of dam classifications are noted in Table 5.13 (Appendix A of the main plan). There are twelve (12) dams in the Town of Albion, all of which are Class A (low hazard) dams located on various streams. Eleven (11) of the dams are of earthen construction and one (1) is made of concrete (located on the Salmon River).

Historical Hazard Occurrences and Damage Estimates

There are no records of dam failures occurring in the Town of Albion. The Town elected to include this hazard due to the potential for damages to occur should any of the Class A dams within the Town fail.

Future Potential Impacts

Should any of the dams within the Town fail, properties immediately downstream would be susceptible to flooding.

5.0 **Capability Assessment**

5.1 *Planning and Regulatory Capability*

The Town's HMP update will be incorporated into and referenced by future updates of the plans, policies, ordinances, programs, studies, and reports listed in Table 6, below.

Table 6. Planning Mechanisms and Capabilities		
Planning Mechanism	Town of Albion	Notes
Plans		
Comprehensive/Land Use Plan	X	Adopted.
Post-disaster Recovery Plan	X	In place.
Watershed Protection Plan	X	In place.
Comprehensive Emergency Management Plan	X	In place.

Table 6. Planning Mechanisms and Capabilities		
Planning Mechanism	Town of Albion	Notes
Policies/Ordinances		
Building Codes	<ul style="list-style-type: none"> • 2010 Residential Code of NYS • 2010 Fire Code of NYS • 2010 Building Code of NYS • 2010 Existing Building Code of NYS • 2010 Energy Conservation Construction Code of NYS • 2010 Plumbing Code of NYS • 2010 Mechanical Code of NYS • 2010 Fuel Gas Code of NYS 	Town Code Enforcement Officer
Subdivision Regulations	X	Adopted.
Property Set-back Ordinance	X	In place.
Flood Regulations	X	In place.
Real Estate Disclosure Requirement	X	In place.
Programs		
NFIP Participant	X	Current participant.
Public Education/Awareness Program	X	Fire Dept. responsible
Stream Maintenance Program	X	Highway Dept. responsible
Mutual Aid Agreements	X	Agreements with County
Studies/Reports		
Hazard Analysis/Risk Assessment	X	2012 Oswego County Hazard Mitigation Plan
Floodplain Maps and/or Studies	X	2011 FEMA Digital Flood Insurance Rate Maps
Staff/Development		
Building Code Official	X	Code Enforcement Officer
Local Floodplain Administrator	X	Code Enforcement Officer
Public Information Official	X	Town Supervisor

5.2 Emergency Communications, Routes, and Shelters

The Town of Albion, along with Oswego County, utilize the HyperReach emergency communications system. Major transportation routes within the Town include Interstate 81 and State Route 69. The Town of Albion has one (1) established emergency shelter:

- Albion Municipal Building – 15 Bridge St, Altmar, NY 13302

The Albion Municipal Building is ADA-compliant. Currently, the Town does not have emergency sheltering accommodations in place for pets.

5.3 Temporary and Permanent Housing Locations

The potential temporary and permanent housing locations listed below were identified for displaced residents in the Town of Albion based on the 2017 NYS Hazard Mitigation Planning Standards. It is noted that formal agreements would need to be established in order to use privately-owned properties.

- **Potential Temporary Housing Locations**
 - Tailwater Lodge – 52 Pulaski St, Altmar, NY 13302
- **Potential Permanent Housing Locations**
 - Vacant Town property off of Barber Rd

6.0 National Flood Insurance Program

Long-term mitigation of potential flood impacts can be best achieved through comprehensive floodplain management regulations and enforcement at a local level. The National Flood Insurance Program (NFIP), regulated by FEMA, aims to reduce the impact of flooding on private and public structures by providing affordable insurance for property owners. The program encourages local jurisdictions to adopt and enforce floodplain management regulations in order to mitigate the potential effects of flooding on new and existing infrastructure (FEMA, 2015).

Communities that participate in the NFIP adopt floodplain ordinances. If an insured structure incurs damage costs that are over 50% of its market value, the owner must comply with the local floodplain regulations when repairing or rebuilding the structure. A structure could be rebuilt at a higher elevation, or it could be acquired and demolished by the municipality or relocated outside of the floodplain. Insured structures that are located within floodplains identified on FEMA's Flood Insurance Rate Maps (FIRMs) may receive payments for structure and content losses if impacted by a flood event.

The NFIP and other flood mitigation actions are important for the protection of public and private property and public safety. Flood mitigation is valuable to communities because it:

- Creates safer environments by reducing loss of life and decreasing property damage;
- Allows individuals to minimize post-flood disaster disruptions and to recover quicker (homes built to NFIP standards generally experience less damage from flood events, and when damage does occur, the flood insurance program protects the homeowner's investment); and
- Lessens the financial impacts on individuals, communities, and other involved parties (FEMA, 2015).

The Town of Albion currently participates in the NFIP. As of November 2017, the Town, along with the former Village of Altmar (which the Town absorbed in 2013), had ten (10) NFIP claims filed since 1978. Nine (9) of these claims were for properties within the former Village limits. One of the Village claims was closed without payment and the remaining eight (8) were closed with a total of \$77,513.56 in damages. The single claim filed within the Town of Albion was closed without payment.

There is one (1) severe repetitive loss property in the former Village of Altmar limits, which is a single family residence. The property has incurred six (6) flood related losses, with a total of \$55,744.89 in building damages. No content damage payments were reported.

The Town's Code Enforcement Officer serves as the Local Floodplain Administrator, and flood maps are available for viewing and copying at the Town Administrative Offices (3665 Clarendon Road, Albion, NY 14411). The Town has been maintaining NFIP participation by performing the duties and actions that were listed in the local laws adopted by the Town Board. The Town will continue to comply with the NFIP by enforcing floodplain management requirements and regulating new development in Special Flood Hazard Areas, among other required duties. The Town will also consider potential mitigation efforts for the one (1) property in the Town limits that has experienced multiple flood-related losses.

7.0 Mitigation Strategy and Prioritization

7.1 Past, Completed, and Ongoing Initiatives

The Town proposed one (1) mitigation action in the 2012 Oswego County HMP, and its status is summarized in Table 7, below. None of the Town's 2012 mitigation actions were re-included for the 2018 update.

Table 7. 2012 Hazard Mitigation Actions Town of Albion				
Proposed Mitigation Action	Hazard(s) Mitigated	Goals and Objectives Met	Implementing Agency	Status
Implement response protocols to remove debris jams and ice jams from waterways	Flood, Ice Jam	3-c, 4-d, 4-e, 5-a, 5-e	Albion DPW/ Highway, Fire Depts.	No progress to date due to limited funding/staff availability.
Review/implement County regulations and insurance regulations on floodplain management requirements	Flood	1-b, 3-a, 4-a, 4-b, 4-d	Albion Floodplain Administrator	No progress to date due to limited funding/staff availability.
Enforce/promote smart development that minimizes impacts from natural hazards	Flood	1-b, 3-a, 4-a, 4-b, 4-d	Albion Zoning/Code Enforcement Official	No progress to date due to limited funding/staff availability.

Table 7. 2012 Hazard Mitigation Actions*Town of Albion*

Proposed Mitigation Action	Hazard(s) Mitigated	Goals and Objectives Met	Implementing Agency	Status
Implement/revise review board regulations and building/zoning codes for potential hazard mitigation updates	Severe storm, ice storm, fire, earthquake, tornado, flood, winter storm, utility failure	1-a, 3-a, 4-a	Albion Zoning/Code Enforcement Official	No progress to date due to limited funding/staff availability.
Implement local Land Use Plans to reduce flood impacts (reduce development and promote safe development)	Flood	1-a	Albion Planning Board and Code Enforcement Officer	No progress to date due to limited funding/staff availability.
Assist County with the development and implementation of new public awareness/education programs for hazard mitigation and preparedness	All hazards	1-b	Albion public information official	No progress to date due to limited funding/staff availability.
Attend County zoning training programs focused on hazard mitigation	Severe storm, ice storm, fire, earthquake, tornado, flood, winter storm, utility failure	1-a	Albion zoning/code enforcement official	No progress to date due to limited funding/staff availability.
Establish program and funds for acquisition/ elevation of houses located within Albion floodplains or with frequent flooding issues	Flood	4-d	Albion Floodplain Administrator	No progress to date due to limited funding/staff availability.
Review emergency evacuation signage within Town of Albion	Severe storm, ice storm, earthquake, tornado, flood, wildfire, winter storm, coastal storm, landslide, terrorism, hazmat (transit)	5-c, 5-e	Albion municipal board and Highway/DPW	No progress to date due to limited funding/staff availability.

7.2 Proposed Mitigation Actions

The Town proposed three (3) new mitigation actions to be included in the HMP update. These actions are described in Table 8, below and on worksheets included in Attachment A.

Table 8. 2018 Proposed Mitigation Actions Town of Albion									
Action ID	Mitigation Action	Hazard(s) Mitigated	Implementing Agencies (Lead* & Support)	Planning Mechanism	Timeframe	New or Existing Development	Estimated Cost	Funding Source(s)	Priority
Albion 1	Feasibility study to rebuild Class A Dam (Dam 080-5221) on Town property at CR 22 and CR13	Flood	Town Supervisor*, NYSDEC	Comprehensive Emergency Management Plan	1-5 years	Existing	\$50K	FEMA- PDM; Town budget	1 (High)
Albion 2	Install dike at Salmon River at CR 52	Flood	Town Highway Superintendent*, Oswego County Highway Dept., Brookfield Power	Highway Dept. Improvements Plan	1-5 years	Existing	\$50-100K	FEMA- PDM; Capital Project for Town or County	2 (Med)
Albion 3	Raise CR 52 bridge over Salmon River	Flood	Town Highway Superintendent*, Oswego County Highway Dept.	Highway Dept. Improvements Plan	1-5 years	Existing	\$500K	FEMA- PDM; Capital Project for County	2 (Med)
Potential Funding Sources FEMA PDM: https://www.fema.gov/pre-disaster-mitigation-grant-program									

7.3 Cost-Benefit Analysis

Each of the Town's proposed mitigation actions were evaluated and prioritized using the STAPLEE cost-benefit analysis. The Town's STAPLEE worksheet is provided in Attachment B. The STAPLEE analysis includes the following lenses of evaluation: social, technological, administrative, political, legal, economic, and environmental.

8.0 Works Cited

Gardner, Florence. 2016. "Town of Albion". *History of Oswego County, New York, Marking the Bicentennial*. Eds Shawn Doyle, Roy Reehil, Debra Allen, Justin White, Janet Clerkin, Kelly Jordal, and Kara Alheim. Oswego, NY: Oswego County, New York, 2016. 42-44. Print.

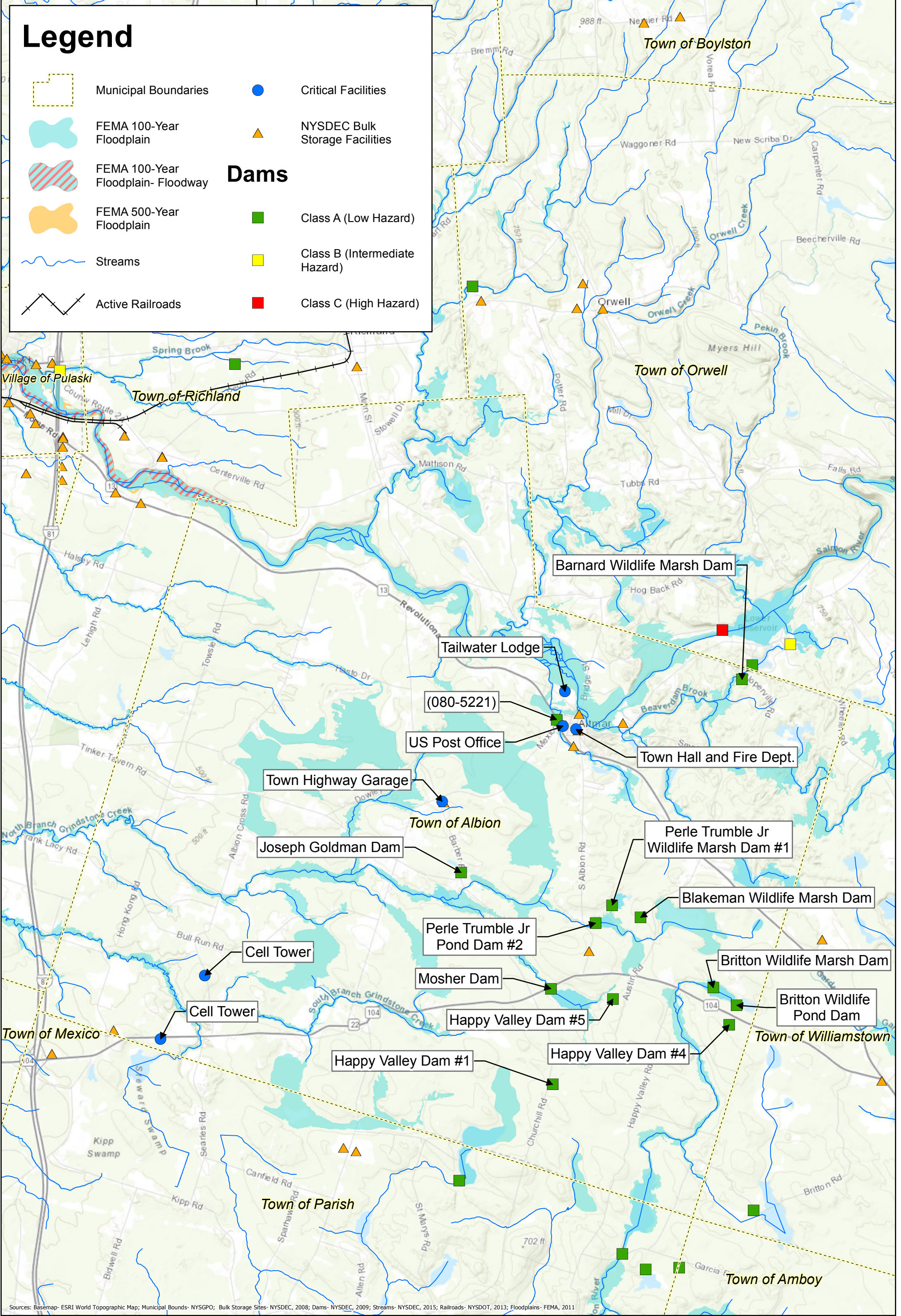
U.S. Census Bureau. 2016. "Summary File." 2012 – 2016 American Community Survey. U.S. Census Bureau's American Community Survey Office, 2016. Web. Accessed 5 September 2018. Available from:
<https://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>

Figure 1

**Hazard Area Extent and Location Map –
Town of Albion**

Legend

- Municipal Boundaries
- FEMA 100-Year Floodplain
- FEMA 100-Year Floodplain- Floodway
- FEMA 500-Year Floodplain
- Streams
- Active Railroads
- Critical Facilities
- NYSDEC Bulk Storage Facilities
- Dams
- Class A (Low Hazard)
- Class B (Intermediate Hazard)
- Class C (High Hazard)



Sources: Basemap- ESRI World Topographic Map; Municipal Bounds- NYSGPO; Bulk Storage Sites- NYSDEC, 2008; Dams- NYSDEC, 2009; Streams- NYSDEC, 2015; Railroads- NYSDOT, 2013; Floodplains- FEMA, 2011

Attachment A

**Mitigation Action Worksheets –
Town of Albion**

Oswego County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction:	Town of Albion
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Mitigation Action Worksheet	
Project Name:	Feasibility study to rebuild Class A Dam (Dam 080-5221) on Town property at CR 22 and CR13
Project Number:	Albion 1
Risk/Vulnerability	
Hazard of Concern:	Flood
Description of the Problem:	Dam presents a flood risk for the Hamlet of Albion.
Action of Project Intended for Implementation	
Description of the Solution:	A feasibility study would address different alternatives for dam rehabilitation (replace in kind, upgrade, etc.) and create a plan to best protect the surrounding area from flooding.

Is this project related to a Critical Facility? Yes _____ No X

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)

Level of Protection:	Low	Estimated Benefits (losses avoided):	Flood prevention for Hamlet of Albion
Useful Life:	Moderate		
Estimated Cost:	\$50,000		

Plan for Implementation			
Prioritization:	#1 (High)	Desired Timeframe for Implementation:	1-5 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	FEMA- PDM; Town budget
Responsible Organization:	Albion Town Supervisor	Local Planning Mechanisms to be used in Implementation, if any:	Comprehensive Plan

Three Alternatives Considered (Including No Action)			
	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	Dam continues to pose a flood risk.
	Conduct feasibility study	\$50,000	Analyze best potential option for strengthening dam to prevent flooding.
	Rehabilitate dam	\$500,000+	Will lessen flood risk, but cannot be completed until feasibility study is done.

Progress Report (for Plan Maintenance)	
Date of Status Report:	
Report of Progress:	
Update Evaluation of the Problem and/or Solution:	

Oswego County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction:	Town of Albion
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Mitigation Action Worksheet

Project Name:	Install dike at Salmon River at CR 52
Project Number:	Albion 2

Risk/Vulnerability

Hazard of Concern:	Flood
Description of the Problem:	Repetitive flooding issues on County Route 52 during heavy precipitation events.

Action of Project Intended for Implementation

Description of the Solution:	Install dike to create a diversion channel for flood waters to prevent roadway flooding and erosion.
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Is this project related to a Critical Facility? Yes _____ No X

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)

Level of Protection:	Low	Estimated Benefits (losses avoided):	Flood prevention for CR 52 and 2-4 residential properties along road
Useful Life:	Moderate		
Estimated Cost:	\$50,000 to \$100,000		

Plan for Implementation

Prioritization:	#2 (Medium)	Desired Timeframe for Implementation:	1-5 years
Estimated Time Required for Project Implementation:	2 years	Potential Funding Sources:	FEMA- PDM; Capital Project for Town or County
Responsible Organization:	Town Highway Superintendent	Local Planning Mechanisms to be used in Implementation, if any:	Comprehensive Plan

Three Alternatives Considered (Including No Action)

	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	Flooding issues remain.
	Install erosion control along bank of Salmon River near County Rt 52	\$30,000	This would temporarily reduce erosion impacts but it is not a complete or long-term solution.
	Install dike to divert flood waters	\$50,000 to \$100,000	Complete solution- accommodates high flows when necessary and prevents further erosion of bridge/roadway

Progress Report (for Plan Maintenance)

Date of Status Report:	
Report of Progress:	
Update Evaluation of the Problem and/or Solution:	

Oswego County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction:	Town of Albion
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Mitigation Action Worksheet	
Project Name:	Raise CR 52 bridge over Salmon River
Project Number:	Albion 3
Risk/Vulnerability	
Hazard of Concern:	Flood
Description of the Problem:	County Route 52 incurs repetitive flooding issues during heavy precipitation events.
Action of Project Intended for Implementation	
Description of the Solution:	Raise CR 52 bridge to prevent roadway flooding and damage. In addition, replace diversion channel to improve flood water flows.

Is this project related to a Critical Facility? Yes _____ No X

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)

Level of Protection:	High	Estimated Benefits (losses avoided):	Flood prevention for CR 52 and 2-4 residential properties along road
Useful Life:	Long		
Estimated Cost:	\$500,000		

Plan for Implementation			
Prioritization:	#3 (Medium)	Desired Timeframe for Implementation:	1-5 years
Estimated Time Required for Project Implementation:	2 years	Potential Funding Sources:	FEMA- PDM; Capital Project for County
Responsible Organization:	Town Highway Superintendent	Local Planning Mechanisms to be used in Implementation, if any:	Comprehensive Plan

Three Alternatives Considered (Including No Action)			
	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	Flood issues remain.
	Raise bridge or replace diversion channel	\$400,000	Partial solution. Raising the bridge alone would alleviate some flooding issues, but if the diversion channel isn't replaced then erosion could pose an issue.
	Raise bridge and replace diversion channel	\$500,000	Complete solution. Raising the bridge alleviates flooding issues and diversion channel replacement will accommodate high water flows.

Progress Report (for Plan Maintenance)	
Date of Status Report:	
Report of Progress:	
Update Evaluation of the Problem and/or Solution:	

Attachment B

**STAPLEE Table –
Town of Albion**

Worksheet #6

STAPLEE Criteria Consideration Table

Mitigation Action Prioritization and Comparison

Jurisdiction	Town of Albion
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