

Town of Mexico

Jurisdictional Annex

Town of Mexico

1.0 Contacts

The primary contact for the Town of Mexico regarding this plan was identified as follows:

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2.0 Municipal Profile

Population

The 2016 American Community Survey estimated that 5,156 people live in the Town of Mexico. The Town's population has decreased by 0.5% compared with the 2000 Census population (5,181) (U.S. Census Bureau, 2016).

Location

The Town of Mexico is located in the central portion of Oswego County. It is bordered by the Town of Richland and Lake Ontario to the north, Town of Parish to the east, Towns of Palermo and Hastings to the south, and Town of New Haven to the west. Interstate 81, U.S. Route 11, and State Routes 3, 69, and 104 provide direct access to the Town.

Brief History

The Town of Mexico was incorporated in 1792 from Scriba's patent and is the oldest municipality in Oswego County. Lumbering was the Town's main industry during the 18th and 19th centuries and a number of sawmills were established. As forests were cleared, agriculture became more significant. The Oswego County Home, which housed people in need, was established in 1828 and operated for 143 years. In addition, Grandma Brown's Beans in the Village of Mexico opened in 1947 and is still in operation today (Greenway, 2016).

Governing Body

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

Future Growth

The Town is seeking stable growth. Since the last County HMP (2012), the Town of Mexico has not had any new commercial or residential developments.

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); two (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
Ice Storm	3	1	3	2	High	1
Severe T-Storm/Wind/ Tornado	3	1	3	3	High	2

Table 1: Hazard Vulnerability by Event						
Hazard Event	Extent	Onset	Impact (Damages and Injury)	Frequency	Vulnerability Rank	Jurisdiction Rank
Severe Winter Storm	3	1	2	3	High	3
Flood	2	2	2	3	High	4
Utility Failure	3	3	2	1	High	5
Water Supply Contamination	2	3	2	1	High	6
Radiological Fixed	2	3	2	1	Moderate	7
Radiological Transit	2	3	2	1	Moderate	8
HAZMAT in Transit	1	3	1	1	Moderate	9

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 Mexico. The table below denote the number and locations of critical facilities within the Town.

Table 2: Critical Infrastructure in the Town of Mexico			
Facility Name	Address (Street, Town/Town/Hamlet)	Parcel Located in Floodplain	Structure Located in Floodplain
Transportation Network			
Evacuation Routes	-	-	-
Bridges	-	-	-
Mexico Airdrome	off of NY-69	100YR	No
Public Utilities			
Cell Tower	off of NY-69	100YR	No
Cell Tower	off of Ames St	No	No
National Grid power line corridor	throughout Town	No	No
Time Warner property	off of NY-69	No	No
Town Wells	off of Pumphouse Rd	100YR, 500YR	100YR, 500YR
Verizon Cell Tower	Munger Hill Rd, across from water tank	No	No
Water Tower	off of Munger Hill Rd	100YR	No
Municipal Services			
Town Highway Garage	784 CR 58, Mexico, NY 13114	No	No
Educational, Shelter and Evacuation Facilities			
CITI BOCES	179 County Rte 64, Mexico, NY 13114	No	No

Table 2: Critical Infrastructure in the Town of Mexico			
Facility Name	Address (Street, Town/Town/Hamlet)	Parcel Located in Floodplain	Structure Located in Floodplain
Dams			
Grays Mills Dam	off of Czebeniak Rd	No	No
Harry Nicholson Pond Dam	off of Sherman Rd	No	No

4.0 Priority Hazard Events

The following sections detail the priority hazard events identified by the jurisdiction. Additional information about County-selected hazards including frequency, history, and severity 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 Mexico. Climate change is expected to cause an increase in weather volatility, rising sea level, and greater temperature extremes. Properties along the shore of Lake Ontario and the Little Salmon River, along with tributaries to these resources 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 Mexico are described in detail below.

4.1.1 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 Mexico is highly vulnerable to damages from an ice storm event due to this hazard's large extent, high damage potential, and moderate frequency.

Historical Hazard Occurrences and Damage Estimates

The Town of Mexico 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 Mexico. Ice storms have the potential to cause hundreds of thousands of dollars in property damages, and can lead to cascading events such as transportation accidents that can cause serious injuries or loss of life.

Future Potential Impacts

The Town of Mexico 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.

4.1.2 Severe Thunderstorm, Wind, or Tornado

For a description of this hazard, 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 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 thirteen (13) specific severe storm events that occurred in the Town of Mexico from 1993 to 2017 (frequency of about once every two years) (Table 3). Eleven (11) of these records were thunderstorm winds, one hail, and one a tornado event. The estimated property damages ranged from \$8,000 to \$50,000 (Table 5). No crop damages were reported by the NCDC, though they likely occurred. Actual damages were likely greater than those estimated by the NCDC.

Table 3: Severe Storm Event Records for the Town of Mexico				
Event Type	Date	Magnitude	Estimated Property Damage	Estimated Crop Damage
Thunderstorm Wind	8/2/1993	-	\$50,000	-
Tornado	8/2/1993	F0	\$50,000	-

Table 3: Severe Storm Event Records for the Town of Mexico				
Event Type	Date	Magnitude	Estimated Property Damage	Estimated Crop Damage
Thunderstorm Wind	7/25/1996	-	\$8,000	-
Thunderstorm Wind	8/23/1998	-	\$8,000	-
Thunderstorm Wind	7/4/2003	50 kts	\$10,000	-
Thunderstorm Wind	8/29/2003	52 kts	\$10,000	-
Thunderstorm Wind	8/5/2012	52 kts	\$10,000	-
Thunderstorm Wind	6/17/2014	50 kts	\$15,000	-
Thunderstorm Wind	5/30/2015	50 kts	\$15,000	-
Thunderstorm Wind	8/13/2016	50 kts	\$10,000	-
Hail	5/18/2017	2.5 inches	-	-
Thunderstorm Wind	8/22/2017	50 kts	\$20,000	-
Thunderstorm Wind	10/15/2017	50 kts	\$15,000	-
Total			\$221,000	-

Future Potential Impacts

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

4.1.3 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 Mexico is highly susceptible to a severe winter storm event due to this hazard's wide extent, moderate damage potential, and common occurrence. The Town Highway Dept. clears Town streets during heavy snow events, and the Town works with the Village of Mexico Dept. of Public Works, 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 Mexico 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 Mexico. Severe winter storms commonly lead to cascading events such as transportation accidents, which can cause serious injuries and loss of life.

Future Potential Impacts

The Town of Mexico 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.

4.1.4 Flood

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

Hazard Vulnerability

The Town of Mexico generally drains to the Little Salmon River and directly 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 4 summarizes the amount of land within the Town of Mexico that is located within 100-year and 500-year floodplains and low-risk flood areas.

Table 4: Summary of Areas in Floodplains (Source: FEMA DFIRM 2011)			
Town of Mexico Total Area	Percent of Total Area		
	100-Year Floodplain	500-Year Floodplain	Area of Minimal Flood Hazard
28,302 acres	9.31%	0.35%	90.33%

Table 5 below summarizes the value of properties in the Town of Mexico 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 5: 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	\$736,500	2	\$9,500
Commercial	5	\$984,200	5	\$984,200
Community Services	1	\$0	0	-
Industrial	3	\$3,000	0	-

Table 5: 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
Residential	406	\$31,280,750	213	\$15,978,300
Utility	6	\$887,814	3	\$12,900
Other**	186	\$1,555,800	78	\$1,426,900
Total	623	\$35,448,064	301	\$18,411,800
*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 ten (1) years, two (2) flood records were noted to specifically impact the Town of Mexico. Both records occurred on September 30, 2010 and involved heavy precipitation (3.2 inches fell overnight). This heavy rainfall caused several road closures in the Town of Mexico. The NCDC estimated total damages for this event to be \$16,000.

As described in Section 6.0 of this annex, one (1) NFIP loss claim has been paid as of November 2017 in the Town of Mexico totaling \$73,394.43. There are no repetitive loss properties in the Town of Mexico. The Town has also been impacted by numerous county-wide events described in Section 5.1.2 of the main body of the plan.

Future Potential Impacts

Properties along the Little Salmon River and its tributaries are vulnerable to flooding. Multiple critical facilities are located on parcels that intersect the 100-year and/or 500-year floodplain, but the structures themselves are outside of a mapped floodplain (Table 2).

4.2 Technological Hazards

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

4.2.1 Utility Failure

Hazard Vulnerability

A utility failure involves the loss of electricity, natural gas supply, phone service, or water supply as a result of an internal system failure. While utility failures are often associated

with natural hazard events, this hazard on its own does not include loss of utility access due to other disaster events. The Town of Mexico primarily has overhead utility lines, including electric, phone, and cable networks and also has underground natural gas lines and a public water supply system. A utility failure could impact the entire developed portion of the Town. The Town's vulnerability to utility failures was determined to be high due to the widespread extent and fast onset of a utility failure.

Historical Hazard Occurrences and Damage Estimates

The Town of Mexico was impacted by a widespread electricity failure in 2003 that impacted much of the northeastern U.S., which resulted in power outages for about one (1) day. No specific utility failure records are available for the Town itself. The Town is more likely to experience utility failures associated with a severe storm, ice storm, or severe winter storm than a purely technologically-caused utility failure.

Future Potential Impacts

The Town will remain susceptible to utility failures in the future. However, the Town is more likely to encounter utility failures due to a natural hazard event than this hazard occurring on its own.

4.2.2 Water Supply Contamination

Hazard Vulnerability

The Town of Mexico would be highly vulnerable to water supply contamination due to the moderate extent, fast onset, and moderate damage or injury potential for this hazard. Town residents rely on private wells for potable water. While unlikely, contamination could be caused due to improper treatment or localized groundwater contamination, particularly due to flooding. Water supply contamination could also result from terrorism.

Historical Hazard Occurrences and Damage Estimates

There are no historical records or damage estimates for water supply contamination in the Town of Mexico. However, if this event were to occur, it has the potential to cause a moderate number of injuries or potentially loss of life.

Future Potential Impacts

The Town is susceptible to a water supply contamination event, but the risk is relatively low.

4.2.3 Radiological Fixed Site

Hazard Vulnerability

A fixed-site radiological incident could occur at the Exelon Fitzpatrick Nuclear Power Plant or Ninemile Point Nuclear Power Plant which are located in the Town of Scriba, about six (6) miles west of the Town of Mexico. An accident at either nuclear plant would affect residents in the Town of Mexico.

Historical Hazard Occurrences and Damage Estimates

There are no available records for radiological fixed site events in the Town of Mexico or Oswego County. The Town elected to profile this hazard due to the nearby nuclear power plants and potential for numerous injuries or loss of life to occur.

Future Potential Impacts

The Town remains susceptible to radiological fixed-site events, though the risk is low.

4.2.4 Radiological and HAZMAT in Transit

Hazard Vulnerability

Hazardous Materials (HAZMAT) or Radiological in Transit events involve the uncontrollable release of flammable, toxic, corrosive, chemically instable, or radioactive materials during transport that can damage infrastructure, pollute the environment, and/or cause injuries or death. The Town of Mexico contains several major transportation routes (U.S. Route 11, State Route 104, State Route 104B, and State Route 3) that are used for the transport of hazardous and radioactive materials (associated with the nearby nuclear power plants in the Town of Scriba). U.S. Route 11 runs north to south in the eastern portion of the Town. State Route 104 and 104B run east to west through the center and northern portions of the Town, respectively. State Route 3 runs north to south through the western half of the Town. A transportation accident involving hazardous materials on any of these routes has the potential to impact a portion of the Town of Mexico. In addition, the CSX Railroad corridor is located in the eastern portion of the Town. This portion of the railroad is a freight-only line and transports a number of goods, including hazardous materials. A train derailment or accident could release hazardous materials in a portion of the Town.

Historical Hazard Occurrences and Damage Estimates

There are no specific records of HAZMAT in transit events in the Town of Mexico. This hazard has been documented in other portions of the County (see main body of this plan update

for details). However, the Town of Mexico elected to include this hazard due to the moderate risk posed by major transportation routes that run directly through the Town.

Future Potential Impacts

Although HAZMAT in transit events are infrequent, the Town remains susceptible to future HAZMAT incidents along major transportation routes and railroads.

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 Mexico	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.
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
Zoning or Land Use Codes	X	Last updated in 2000. Local Law No. 1 of 2000
Subdivision Regulations	X	Adopted.
Property Set-back Ordinance	X	In zoning.
Flood Regulations	X	Local Law No. 1 of 2000
Site Plan Review Requirements	X	Town Planning Board responsible
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
Storm Drainage Maintenance Program	X	Highway Dept. responsible
Mutual Aid Agreements	X	Agreements Village of Mexico

Table 6. Planning Mechanisms and Capabilities		
Planning Mechanism	Town of Mexico	Notes
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 Mexico, along with Oswego County, utilize the HyperReach emergency communications system. Major transportation routes within the Town include U.S. Route 11, State Route 3, State Route 104, and State Route 104B. The Town is just west of the Interstate 81 corridor. The Town of Mexico has four (4) established emergency shelters that it shares with the Village of Mexico:

- Mexico High School- 3338 Main St, Mexico, NY 13114
- Mexico Middle School- 16 Fravor Rd, Mexico, NY 13114
- Mexico Elementary School- 26 Academy St, Mexico, NY 13114
- Mexico VFW- 5930 Scenic Ave, Mexico, NY 13114

All of the Town's emergency shelters are ADA-compliant. The Town currently does not have any pet sheltering accommodations at its shelter locations.

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 Mexico 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**
 - Jellystone Campground- 601 County Rt 16, Mexico, NY 13114
 - Mexico Community Park- off of NY-104, Mexico, NY
 - Salmon Country Marina & Campgrounds- 58 Mexico Point Drive West, Mexico, NY 13114, US
 - Dowie Dale Campground- 470 Rt 104B, Mexico, NY 13114

- Mexico Point State Park- 120 Mexico Point Dr, Mexico, NY 13114
- **Potential Permanent Housing Locations**
 - Vacant land adjacent to Highway Garage- off of NY-104, Mexico, NY
 - Mexico Community Park- off of NY-104, Mexico, NY
 - Mexico Point State Park- 120 Mexico Point Dr, Mexico, NY 13114

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 Mexico participates in the NFIP and has a total of eighteen (18) flood insurance policies in-force as of November 30, 2017. Collectively, these policies include \$ 3,033,600 of insurance coverage, and seven (7) claims have been filed to date. Of these claims, one (1) remains open, and five (5) were closed without payment. The single paid claim totaled \$73,394.43. There are no repetitive loss properties within the Town of Mexico.

The Town's Code Enforcement Officer serves as the Local Floodplain Administrator, and flood maps are available for viewing and copying at the Town Hall (64 S. Jefferson St, Mexico, NY 13114). 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 (Local Law #1 of 2000). The Town will continue to comply with the NFIP by enforcing floodplain management requirements and regulating new development in Special Flood Hazard Areas, in addition to other required duties.

7.0 Mitigation Strategy and Prioritization

7.1 Past, Completed, and Ongoing Initiatives

The Town has completed several mitigation projects since the publication of the previous Oswego County HMP. The Town replaced the aging bridge on Munger Hill Road and successfully enforced their zoning code for a propane warehouse to mitigate potential HAZMAT concerns at a propane warehouse (the warehouse was located just on the edge of the Town and Village). The Town proposed four (4) mitigation actions in the 2012 Oswego County HMP. The details and status of previous actions are summarized below in Table 7. None of the 2012 mitigation actions proposed for the Town of Mexico were re-included for the 2018 update.

Table 7. 2012 Hazard Mitigation Actions Town of Mexico				
Proposed Mitigation Action	Hazard(s) Mitigated	2012 Goals & Objectives Met	Implementing Agency	Status
Review emergency evacuation signage within I-81 corridor communities – establish such signage if needed	Severe storm, ice storm, earthquake, tornado, flood, wildfire, winter storm, coastal storm, landslide, terrorism, hazmat (transit)	5-c, 5-e	County EMO, Municipal Boards and Highway/DPW, NYSDOT	The Town of Mexico did not specifically address this action, but it was completed by the NYSDOT along I-81 since the 2012 Oswego County HMP. Emergency signage still lacking along other roadways within the Town.
Increase building setbacks along Lake Ontario to reduce erosion potential and impacts	Severe storm, landslide	4-b, 4-d	Municipal Planning Boards, Zoning (if applicable)	Not completed
Enforce zoning regulations in Town/Town of Mexico (Propane warehouse)	Hazmat (fixed site)	3-a, 4-a, 4-b	Town and Town of Mexico code enforcement official	Complete- the Town and Village successfully enforced existing zoning regulations related to the propane warehouse. This facility is no longer in operation.
Replace Munger Hill Road Bridge in Town of Mexico	Hazmat (in transit), fire	5-f	County Highway, Town of Mexico Highway	Complete- Town replaced bridge.

7.2 Proposed Mitigation Actions

The Town proposed two (2) 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 Mexico									
Action ID	Mitigation Action	Hazard(s) Mitigated	Implementing Agencies (Lead* & Support)	Planning Mechanism	Timeframe	New or Existing Development	Estimated Cost	Funding Source(s)	Priority
T-Mexico 1	Conduct engineering study to identify highest priority stabilization projects along Lake Ontario shoreline to reduce flooding & erosion	Flood	Town Planning Board*, NYSDEC, USACE	Post-Disaster Recovery Plan	1-2 years	Existing	\$50,000	FEMA HMGP; Town budget	1 (High)
T-Mexico 2	Provide backup power for Town Hall (potential shelter location) and Town Highway Dept.	All	Town Highway Superintendent*	Town Comprehensive Emergency Management Plan	1-2 years	Existing	\$120K	FEMA PDM; USDA-RD Community Facilities Grant	2 (High)
Potential Funding Sources FEMA PDM: https://www.fema.gov/pre-disaster-mitigation-grant-program FEMA HMGP: https://www.fema.gov/hazard-mitigation-grant-program USDA-RD Community Facilities Grant: https://www.rd.usda.gov/programs-services/community-facilities-direct-loan-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.

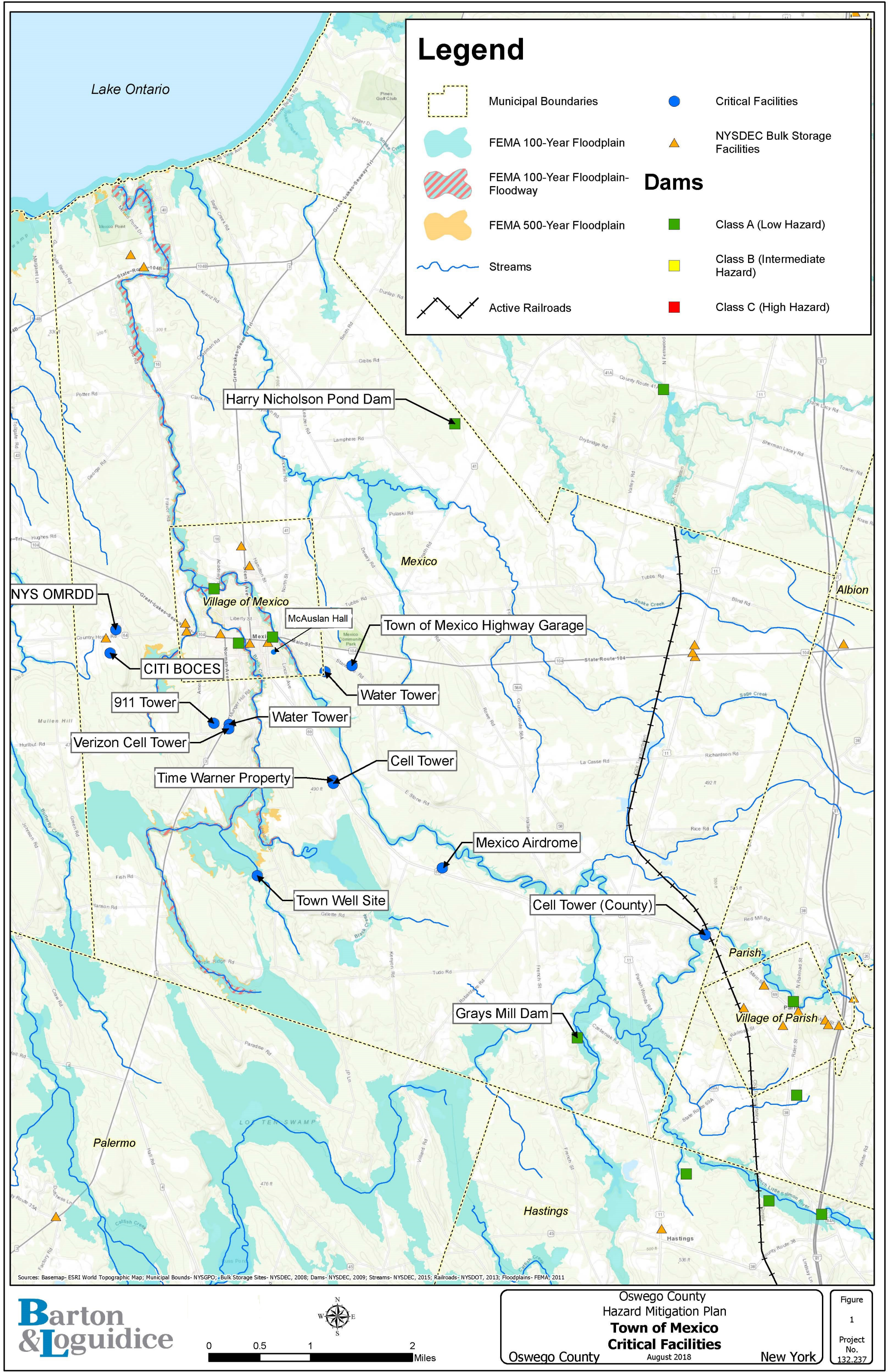
8.0 Works Cited

Greenway, Judith. 2016. "Town and Village of Mexico". *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. 73-76. 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 Mexico**



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 Mexico**

Oswego County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction:	Town of Mexico
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Mitigation Action Worksheet	
Project Name:	Conduct engineering study to identify highest priority stabilization projects along Lake Ontario shoreline to reduce flooding & erosion
Project Number:	Mexico Town 1
Risk/Vulnerability	
Hazard of Concern:	Flood
Description of the Problem:	High water levels on Lake Ontario caused severe erosion and flooding along the lake shoreline, affecting a number of private and Town-owned properties.
Action of Project Intended for Implementation	
Description of the Solution:	A study of the high water impacts would identify potential solutions to effectively mitigate erosion and 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:	Medium	Estimated Benefits (losses avoided):	A study would provide data and suggest potential solutions to mitigate future flood impacts along the lake shore.
Useful Life:	Long-term		
Estimated Cost:	\$50,000		

Plan for Implementation			
Prioritization:	High (#1)	Desired Timeframe for Implementation:	1-2 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	FEMA- HMGP; Town budget
Responsible Organization:	Town Planning Board	Local Planning Mechanisms to be used in Implementation, if any:	Post-Disaster Recovery Plan

Three Alternatives Considered (Including No Action)			
	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	Shoreline erosion/flooding issues remain.
	Conduct engineering study	\$50,000	First step- will maximize resources to implement projects that would provide the most long-term benefits.
	Implement flood and erosion control projects	\$1 million +	Ultimate goal but need engineering study completed first.

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 Mexico
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Mitigation Action Worksheet	
Project Name:	Provide backup power for Town Hall (potential shelter location) and Town Highway Dept.
Project Number:	Mexico Town 2
Risk/Vulnerability	
Hazard of Concern:	All
Description of the Problem:	The Town Hall can be used as a short-term emergency shelter but does not currently have backup power. The Town Highway Department houses critical town infrastructure and also lacks backup power.
Action of Project Intended for Implementation	
Description of the Solution:	Installing a generator in both of these locations would provide better sheltering options for Town residents and maintain continuity of critical operations.

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

(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:	Medium	Estimated Benefits (losses avoided):	Increase sheltering ability and maintain continuity of critical operations during hazard events with power outages.
Useful Life:	Long-term		
Estimated Cost:	\$20,000		

Plan for Implementation			
Prioritization:	High (#2)	Desired Timeframe for Implementation:	1-2 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	FEMA PDM; USDA-RD Community Facilities Grant, Town budget
Responsible Organization:	Town Highway Superintendent	Local Planning Mechanisms to be used in Implementation, if any:	Town Comprehensive Emergency Management Plan

Three Alternatives Considered (Including No Action)			
	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	No change- sheltering limitations and power outage risks remain for Town operations
	Install generator at one facility	\$10,000	Partial solution- increase sheltering capabilities or better protect Town operations
	Install generator at both facilities	\$20,000	Ensure continuity of critical operations and shelter availability

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 Mexico**

Worksheet #6

STAPLEE Criteria Consideration Table

Mitigation Action Prioritization and Comparison

Jurisdiction	Town of Mexico
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[illegible]