

Town of Schroepel

Jurisdictional Annex

Town of Schroepfel

1.0 Contacts

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

- Lynett Greco – Town Supervisor
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Town Website: <http://townofschroepfel.com/content>

2.0 Municipal Profile

Population

The 2016 American Community Survey estimated that 8,344 people live in the Town of Schroepfel. The Town's population has decreased since the 2000 Census population (8,566) by 2.6% (U.S. Census Bureau, 2016).

Location

The Town of Schroepfel is located in southern Oswego County and is bordered by the Town of Palermo to the north, Town of Hastings to the east, the Village of Phoenix and Town of Clay (Onondaga County) to the south, and Towns of Granby and Volney to the west. State Routes 264, 481, and 49 provide direct access to the Town. The Oneida and Oswego Rivers flow along the Town's southern border.

Brief History

The Town of Schroepfel was incorporated in 1832. The Town is bordered by the Oswego River to the southwest and the Oneida River to the south. These two (2) rivers meet the Seneca River at the Town's southwesternmost point, known as Three Rivers Point. The Town's location on the rivers was instrumental to its development. The Oswego Canal was completed in 1828 and spurred significant development in the area. A number of sawmills and grain mills were established early on, along with other factories. Agriculture was a major industry in the Town, particularly cattle and dairy farms and crop production (including hay, grain, and fruit) (Dix, 2016).

Governing Body

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

Future Growth

The Town is nearly all residential. Since the 2012 County HMP, several new commercial developments have occurred in the Town. In 2015, Byrne Dairy constructed a new convenience store and gas station just south of the Village of Phoenix. In addition, Finger Lakes Stairs & Cabinets is in the process of constructing a new manufacturing plant in Schroepfel, and EJ USA is planning to establish a new manufacturing facility at the County Industrial Park within the Town. None of these facilities are within a 100-year or 500-year floodplain.

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 (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
Severe Winter Storm	3	1	2	3	High	1
Ice Storm	3	1	3	2	High	2
Severe T-Storm/Wind/Tornado	3	1	3	3	High	3
Extreme Temps	3	1	1	2	Moderate	4
Flood	2	2	2	2	Moderate	5
HAZMAT Fixed	1	3	2	1	Moderate	6

Table 1: Hazard Vulnerability by Event						
Hazard Event	Extent	Onset	Impact (Damages and Injury)	Frequency	Vulnerability Rank	Jurisdiction Rank
Fire	1	3	2	1	Moderate	7
Dam Failure	1	3	1	1	Moderate	8
Transportation Accident	1	3	1	1	Moderate	9
Structural Collapse	1	3	2	1	Moderate	10
Ice Jam	1	2	1	1	Low	11
Water Supply Contamination	2	3	2	1	Moderate	12
Utility Failure	3	3	2	1	High	13
Oil Spill	2	3	2	1	Moderate	14
Wildfire	2	3	2	1	Moderate	15

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

Table 2: Critical Facilities in the Town of Schroepfel			
Facility Name	Address	Parcel Located in Floodplain	Structure Located in Floodplain
Public Utilities			
Cell Tower	off of Huntley Rd	No	-
Cell Tower	69 CR 57A Phoenix, NY 13135	No	-
Empire State Pipeline Co	off of Chestnut St	No	-
National Grid corridor	throughout Town	No	-
National Grid Gas Measuring Station	7 Hawthorne Rd	No	-
National Grid Gas Measuring Station	off of Chestnut St	No	-
National Grid Substation	off of NY-49	No	-
Natural Gas Line	CR 46 and Hawthorne Rd	No	-
Town Water Supply Property	CR 59 & NY-264	No	-
Water Tower	off of CR 59	No	-
Windstream NY Inc.	359 Gilbert Mills Rd	No	-
Windstream NY Inc.	372 CR 10	No	-
Suburban Propane	56 CR 57A, Phoenix, NY 13135	No	-

Table 2: Critical Facilities in the Town of Schroepfel			
Facility Name	Address	Parcel Located in Floodplain	Structure Located in Floodplain
Emergency Services			
Caughdenoy Fire Station	1046 CR 12, Pennellville, NY 13132	No	-
Pennellville Fire Dept.	3 Godfey Rd, Pennellville, NY 13132	No	-
Municipal Services			
Schroepfel Highway Garage	69 CR 57A Phoenix, NY 13135	No	-
Schroepfel Town Hall	69 CR 57A Phoenix, NY 13135	No	-
Dams			
Dale Reynolds Dam	off of Barnard Rd	-	-
Karapin Pond Dam	off of CR 12	-	-
Pennellville Sawmill Dam	off of CR 54	-	-

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 Plan.

The probability of climate-related hazard events is expected to increase in the future within the Town of Schroepfel. Climate change is expected to cause an increase in weather volatility, rising sea level, and greater temperature extremes.

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 Schroepfel are described in detail below.

4.1.1 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 Schroepfel 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 Schroepfel 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 Schroepfel.

Future Potential Impacts

The Town of Schroepfel 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.

4.1.2 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 years in Oswego County. These storms typically affect most or all of the County. The entire Town of Schroepfel is moderately susceptible to damages from an ice storm event due to its large extent and moderate damage potential and frequency.

Historical Hazard Occurrences and Damage Estimates

The Town of Schroepfel 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 Schroepfel.

Future Potential Impacts

The Town of Schroepfel 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.

4.1.3 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 moderately susceptible to damages from a severe thunderstorm, wind, or tornado or coastal storm event due to its moderate extent, hours of warning, and high frequency. 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 nineteen (19) specific severe storm events that occurred in the Town of Schroepfel between 1994 and 2017 (frequency of about once per year). No specific records have been recorded for the Town of Schroepfel.

Future Potential Impacts

Severe storms are a common event in the Town of Schroepfel 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 Extreme Temperatures

For a description of this hazard, please see Section 5.1.5 of the main body of the Plan.

Hazard Vulnerability

Historically, extreme cold events have occurred about every other year in Oswego County. These events typically affect most or all of the County. The entire Town of Schroepfel is susceptible to an extreme temperature event. Vulnerable populations, including people under the age of five (5) or over the age of sixty-five (65), along with low income populations and people with health problems are most vulnerable. The Town was determined to have a moderate vulnerability to extreme temperature events due to their widespread nature, and relatively common occurrence.

Historical Hazard Occurrences and Damage Estimates

The Town of Schroepfel was affected by the county-wide extreme cold events recorded by the NCDC, which are described in Section 5.1.5 of the main body of the Plan. No damage estimates or records related to extreme temperature events are reported specifically for the Town of Schroepfel. Extreme temperature events are unlikely to cause significant property damage, though crop damages are possible depending on the time of year. Significant injuries or loss of life due to extreme temperature events are possible, but in small numbers.

Future Potential Impacts

The Town of Schroepfel will continue to experience extreme temperature events in the future, as will the rest of Oswego County. Extreme temperature events are likely to increase in frequency due to climate change. The Town has emergency shelters established, several of which are designated warming stations that residents may use during extreme cold events.

4.1.5 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 drained by a number of streams (including Fish Creek, Bell Creek, Buxton Creek, and their tributaries). The Oswego River is located at the Town's western boundary. 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 Schroepfel 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 Schroepfel Total Area	Percent of Total Area		
	100-Year Floodplain	500-Year Floodplain	Area of Minimal Flood Hazard
26,802.1 acres	22.67%	0.97%	76.29%

Table 4 below summarizes the value of properties in the Town of Schroepfel 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	54	\$1,721,397	23	\$971,137
Commercial	17	\$3,532,411	6	\$1,357,787
Community Services	3	\$0	2	\$0
Industrial	5	\$12,900	0	-
Other	242	\$1,161,887	109	\$935,700
Residential	544	\$46,009,761	276	\$26,461,106
Utility	7	\$991,894	3	\$519,718
Total	872	\$53,430,250	419	\$30,245,448
*Structure Value estimated by subtracting parcel's Land Assessed Value from Total Assessed Value (Oswego County Real Property Tax Office, 2018)				

Historical Hazard Occurrences and Damage Estimates

According to NOAA's Storm Events Database, in the past fifteen (15) years, no flood records were noted to specifically impact the Town of Schroepfel. The Town has experienced minor localized flooding issues along roadways due to beaver dams in the past but culvert replacement projects have been successful in alleviating these issues.

As described in Section 6.0 of this annex, twenty-one (21) loss claims have been filed and thirteen (13) have been paid in the Town of Schroepfel. No repetitive loss properties are located within the Town. The Town does not currently participate in the National Flood Insurance Program (NFIP).

Future Potential Impacts

Properties along the shore of Oneida Lake, which borders the Town to the south, and its tributaries are vulnerable to flooding. Nearly 23% of the Town of Schroepfel is within a mapped 100-year floodplain. None of the Town's critical facilities intersect a mapped floodplain.

4.1.6 Ice Jam

An ice jam is described as a large accumulation of ice in rivers or streams that interrupts the normal flow of water and often leads to flooding conditions and/or damage to nearby structures. Ice jam events typically occur from the early winter to late spring months and are often short-lived and often affect only a localized reach or area of a body of water. Freeze-up jams occur when waterbodies are beginning to freeze over during the early winter and do not typically result in significant floods. Break-up jams typically occur later in the spring when built up ice breaks or moves as it begins to melt or when water levels rise due to precipitation or snowmelt. Break-up jams often result in flooding and property damages.

Hazard Vulnerability

In the Town of Schroepfel, an ice jam could occur along the Oswego River and other major tributaries to Oneida Lake (Figure 1). Areas that may incur damages due to an ice jam generally include properties within a 100-year or 500-year floodplain, as shown in Table 4 in Section 4.1.3.

Historical Hazard Occurrences and Damage Estimates

In the winter of 2004, an ice jam occurred on the Oswego River causing the hydroelectric dam gates to freeze and a subsequent rise on Oneida Lake and the Seneca River.

Future Potential Impacts

The Oswego River will continue to pose risks of ice jams in the Town of Schroepfel. In the future, ice jams may occur more frequently due to climate change.

4.1.7 Wildfire

A wildfire is an uncontrollable combustion of trees, brush, or grass involving a substantial land area which may have the potential for threatening human life and property. Wildfires often begin unnoticed and spread quickly and are usually signaled by dense smoke that fills the area for miles around. In Oswego County, past occurrences of wildfires were caused by open burning.

Hazard Vulnerability

The Town of Schroepfel is moderately susceptible to a wildfire. The Town contains forested cover and also has a large number of agricultural properties. A wildfire event could impact a moderate amount of the Town and would come with little to no warning. The Town of Schroepfel experienced 1.4 to 3.4 wildfires per square mile between 2003 and 2017 (see Figure 5.9, Appendix A of the main body of the report).

Historical Hazard Occurrences and Damage Estimates

There are no historical records or damage estimates of wildfires within the Town of Schroepfel. Previous wildfire events within Oswego County were generally caused by open burning during dry weather. The NYSDEC implemented a statewide open burn ban in 2010, which has helped reduce the number of wildfires throughout the state. Wildfires generally do not cause significant property damages as they tend to occur in undeveloped portions of the County. Crop damage is more likely to occur. However, the jurisdiction or County would likely incur significant costs associated with firefighting and other emergency response needs.

Future Potential Impacts

The Town of Schroepfel is largely undeveloped and remains susceptible to wildfires, though the risk is relatively low. The statewide open burn ban is expected to remain in effect, which lessens the risk of wildfires.

4.2 Technological Hazards

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

4.2.1 HAZMAT Fixed and Oil Sites

For a description of HAZMAT Fixed Site, please see Section 5.2.2 of the main body of the Plan.

Hazard Vulnerability

A fixed-site hazardous materials incident could occur at sites that store petroleum products or other chemicals for industrial or commercial use. The NYSDEC lists no chemical bulk storage (CBS) sites, petroleum bulk storage (PBS) sites, or Major Oil Storage Facilities (MOSF) as active in the Town of Schroepfel (Figure 1). However, any industrial sites, manufacturing facilities, gas stations, and community services could potentially store and use large quantities of chemical or petroleum materials. If a large petroleum spill were to occur at

any of these locations, nearby properties may need to be evacuated to prevent human exposure and facilitate cleanup.

Historical Hazard Occurrences and Damage Estimates

There are no available records for major HAZMAT events specifically in the Town of Schroepfel. The Town elected to profile this hazard due to the presence of hazardous material storage facilities that store or use hazardous materials.

Future Potential Impacts

The Town remains susceptible to fixed-site hazardous material events, though they are a rare occurrence. Properties close to bulk storage facilities that store petroleum products or chemicals are at the most risk of being affected by a fixed-site hazardous materials incident.

4.2.2 Fire

Hazard Vulnerability

The Town of Schroepfel had a moderate vulnerability ranking for fires. These events tend to be more localized, affecting one (1) to several structures at a time. However, there is little to no warning and substantial structural damages and injuries or deaths are likely to occur. The central portion of the Town, which is most densely developed, would be the most vulnerable area for a fire event.

Historical Hazard Occurrences and Damage Estimates

Structural fires occur occasionally within the Town and have the potential to cause significant injuries or loss of life and hundreds of thousands of dollars in damages.

Future Potential Impacts

The Town of Schroepfel is largely undeveloped. The developed portions along main transportation routes are most susceptible to structure fires.

4.2.3 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 body of the plan).

There are three (3) dams in the Town of Schroepfel, all of which are Class A (low hazard) dams. The Clifford Feidt Marsh Dam and Karapin Pond Dam are located on a tributary of the Oneida River and are earthen dams with a purpose listed as “other”. The Pennell Saw Mill Dam is an earthen dam constructed for fire protection, stock/small farm pond, and hydroelectric purposes.

Historical Hazard Occurrences and Damage Estimates

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

Future Potential Impacts

Should the dam fail, properties immediately downstream of the dams would be susceptible to flooding.

4.2.4 Transportation Accident

For a description of this hazard, please see Section 5.2.6 of the main body of the Plan.

Hazard Vulnerability

For the purposes of hazard mitigation, a transportation accident is defined as an accident on land, water, or in the air resulting in mass casualties or a substantial loss of property. The Town of Schroepfel contains several major transportation routes (State Routes 264, 481, and 49). Route 481 travels along the western border of the Town along the Oswego River. Route 264 crosses the Town perpendicular to this, traveling north toward the Town of Palermo and intersecting Route 49, which travels approximately parallel to Route 481 at the northeastern border of the Town. A transportation accident on any of these routes has the potential to impact a portion of the Town of Schroepfel.

Historical Hazard Occurrences and Damage Estimates

While minor vehicular accidents are relatively common throughout the County, there are no specific records of major transportation accidents in the Town of Schroepfel (accidents involving mass casualties or substantial loss of property). The Town elected to profile this hazard due to the increased risk of this hazard occurring along major transportation routes.

Future Potential Impacts

While major transportation accidents are infrequent, but the Town remains susceptible to future incidents along major transportation routes, particularly as a result of natural hazards such as a severe winter storm or ice storm. Transportation accidents do not pose a large risk to infrastructure, however, they are likely to cause injuries or loss of life. Maintaining roadway safety and clearly designating evacuation routes can aid in prevention of transportation accidents.

4.2.5 Structural Collapse

Hazard Vulnerability

A structural collapse involves a structural failure of a building, bridge, or other infrastructure that threatens human life and health. The Town of Schroepfel is moderately vulnerable to a structural collapse. Though this event would only affect a small area within the Town, there is little to no warning and it presents significant damages and injury risks. The Town contains multiple bridges (crossing Fish Creek, the Oswego River, and multiple smaller creeks) on major routes and local roads. In addition, approximately 26% of housing units in the Town were built in 1939 or earlier (U.S. Census Bureau, 2016). Older structures are more vulnerable to structural collapse than newer structures.

Historical Hazard Occurrences and Damage Estimates

There are no specific structural collapse records for the Town of Schroepfel. However, the Town elected to profile this hazard due to the presence of vulnerable infrastructure.

Future Potential Impacts

Structural collapse is not a high-risk hazard for the Town, but it could occur particularly during a natural hazard event such as a winter storm, severe storm, or ice storm resulting in hundreds of thousands of dollars in damages and potentially injuries or loss of life.

4.2.6 Water Supply Contamination

For a description of this hazard, please see Section 5.2.8 of the main body of the Plan.

Hazard Vulnerability

A small portion of the Town of Schroepfel is supplied by a municipal water system. The Town of Schroepfel would be highly vulnerable to water supply contamination due to the moderate extent, fast onset, and moderate damage or injury potential for this hazard. While unlikely, contamination could be caused due to improper treatment or localized groundwater contamination. 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 Schroepfel. However, if this event were to occur, it has the potential to cause a moderate number of injuries or loss of life.

Future Potential Impacts

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

4.2.7 Utility Failure

For a description of this hazard, please see Section 5.2.3 of the main body of the Plan.

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 Schroepfel 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 Schroepfel 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.

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 5, below.

Table 5. Planning Mechanisms and Capabilities		
Planning Mechanism	Town of Schroepfel	Notes
Plans		
Comprehensive/Land Use Plan	X	Adopted.
Capital Improvement Plan	*	Currently in progress
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 	Code Enforcement Officer
Zoning/Land Use Codes/Restriction	X	Local Law.
Subdivision Regulations	X	Adopted.
Property Set-back Ordinance	X	In zoning.
Flood Regulations	X	Adopted.
Site Plan Review Requirements	X	In place.
Real Estate Disclosure Requirement	X	In place.
Programs		
NFIP Participant	X	Current participant.
Public Education/Awareness Program	X	Fire Depts. responsible
Stream Maintenance Program	X	Highway Dept. responsible
Storm Drainage Maintenance Program	X	Highway Dept. responsible
Mutual Aid Agreements	X	Agreements with neighboring jurisdictions and Oswego County. The local fire departments also have mutual aid agreements with State and County fire.
Studies/Reports		
Hazard Analysis/Risk Assessment	X	Present HMP Update
Floodplain Maps/Insurance Studies	X	FEMA- 2013
Staff/Development		
Building Code Official	X	Code Enforcement Officer

Table 5. Planning Mechanisms and Capabilities		
Planning Mechanism	Town of Schroepfel	Notes
Engineer/Public Works Official	X	Town Highway Dept.
Local Floodplain Administrator	X	Code Enforcement Officer
Public Information Official	X	Town Supervisor

5.2 Emergency Communications, Routes, and Shelters

The Town of Schroepfel, along with Oswego County, utilizes the HyperReach emergency communications system. Major transportation routes within the Town include State Routes 264, 481, and 49. The Town of Schroepfel has one (1) established emergency shelter:

- Schroepfel Town Hall – 69 CR 57A, Phoenix NY

The Town Hall is ADA-compliant. The Town has several dog kennels that may be used to shelter pets during an emergency if space is available.

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 Schroepfel based on the 2017 NYS Hazard Mitigation Planning Standards. The following locations were selected for residents in the Town of Schroepfel. It is noted that formal agreements would need to be established in order to use privately-owned properties.

- **Potential Temporary Housing Locations**
 - Camp Talooli – 520 County Route 54, Pennellville
 - Pleasant Lake Campground – 65 Wigwam Road, Pennellville
 - William J. Farley Jr. Community Park – 21-198 Chestnut Street, Phoenix
 - Schroepfel Town Hall - 69 CR 57A, Phoenix NY
- **Potential Permanent Housing Locations**
 - William J. Farley Jr. Community Park – 21-198 Chestnut Street, Phoenix

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 Schroepfel currently participates in the NFIP. As of July 2018, the Town had fifty-nine (59) flood insurance policies in-force, with a total coverage amount of \$7,804,300.00 and twenty-one (21) claims have been filed to date. Eight (8) of these claims have been closed without payment. The remaining claims have totaled \$45,444.16. There are no repetitive loss properties within the Town of Schroepfel.

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 (1445 County Route 6, Fulton). 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, in addition to other required duties.

7.0 Mitigation Strategy and Prioritization

7.1 Past, Completed, and Ongoing Initiatives

The Town of Schroepfel did not participate in the 2012 Oswego County HMP and therefore has no progress to report on hazard mitigation projects identified in that plan. No details are available regarding hazard mitigation-related projects that have been completed during that timeframe.

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 6, below and on worksheets included in Attachment A.

Table 6. 2018 Proposed Mitigation Actions Town of Schroepfel									
Action ID	Mitigation Action	Hazard(s) Mitigated	Implementing Agencies (Lead* & Support)	Planning Mechanism	Timeframe	New or Existing Development	Estimated Cost	Funding Source(s)	Priority
Schroepfel 1	Provide backup power for Pennellville Fire Dept. or Pennellville United Methodist Church (shelter locations)	All	Town Fire Dept.*	Comprehensive Emergency Management Plan	1-5 years	Existing	\$20-30K	FEMA- PDM; USDA- RD Community Facilities Grant	1 (High)
Schroepfel 2	Stormwater drainage improvements for developments off of CR 10 and CR 12	Flood, Severe Winter Storm	Town Highway Dept.*	Comprehensive Plan	1-5 years	Existing	\$50,000	FEMA- PDM; NYSEFC- CWSRF	2 (High)
Potential Funding Sources FEMA PDM: https://www.fema.gov/pre-disaster-mitigation-grant-program USDA-RD Community Facilities Grant: https://www.rd.usda.gov/programs-services/community-facilities-direct-loan-grant-program NYSEFC CWSRF: https://www.efc.ny.gov/CWSRF									

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

Dix, Barbara. 2016. "Town of Schroepfel". *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. 131-133. 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 Schroepfel**

Attachment A

**Mitigation Action Worksheets –
Town of Schroepfel**

Oswego County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction:	Town of Schroepfel
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Mitigation Action Worksheet	
Project Name:	Provide backup power for Pennellville Fire Dept. or Pennellville United Methodist Church (shelter locations)
Project Number:	Schroepfel 1
Risk/Vulnerability	
Hazard of Concern:	All
Description of the Problem:	Town lacks an emergency shelter for residents living in the east/central portions who can't get to the Town Hall on the western end of Town.
Action of Project Intended for Implementation	
Description of the Solution:	Install generator at Pennellville Fire Dept. or Pennellville United Methodist Church to use either facility as an emergency shelter.

Is this project related to a Critical Facility? Yes ☒ 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:	High	Estimated Benefits (losses avoided):	Increase number of shelters available to residents and maintain critical operations at these facilities during hazard events.
Useful Life:	Long-term- 10-15 years		
Estimated Cost:	\$30,000		

Plan for Implementation			
Prioritization:	#1 (High)	Desired Timeframe for Implementation:	1-5 years
Estimated Time Required for Project Implementation:	3 months	Potential Funding Sources:	FEMA- PDM, USDA-RD Community Facilities Grant
Responsible Organization:	Town Fire Dept.	Local Planning Mechanisms to be used in Implementation, if any:	Comprehensive Emergency Management Plan

Three Alternatives Considered (Including No Action)			
	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	Risk of power outages at critical facilities remains
	Purchase portable generator to be used at multiple facilities	\$10,000	Requires additional coordination and may not be available if needed by multiple facilities
	Install generator at Fire Dept. or Church to provide a second suitable shelter location for residents	\$30,000	Guaranteed backup power for one of these facilities that could serve as an emergency shelter. If at Fire Dept., also allows for continuity of critical operations.

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 Schroepfel
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Mitigation Action Worksheet	
Project Name:	Stormwater drainage improvements for developments off of CR 10 and CR 12
Project Number:	Schroepfel 2
Risk/Vulnerability	
Hazard of Concern:	Flood, Severe Winter Storm
Description of the Problem:	Residential developments off of County Route 10 and County Route 12 have poorly designed and maintained stormwater drainage systems which contribute to localized flooding issues and create difficulty for snow removal.
Action of Project Intended for Implementation	
Description of the Solution:	Re-design the drainage systems for these developments to decrease flooding issues that occur due to heavy precipitation events and provide better access for snow removal vehicles.

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):	Decreased flooding issues- fewer damages to roadways and residential properties
Useful Life:	Long-term- 20-30 years		
Estimated Cost:	\$50,000		

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; NYSEFC- CWSRF
Responsible Organization:	Town Highway Dept.	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	Inadequate stormwater drainage continues to be an issue for these areas
	Re-design the drainage systems	\$500,000	Complete solution to address localized flooding issues
	Rehabilitate portions of the existing drainage systems that contribute to the most flooding issues	\$50,000	Would help with flooding issues but not a complete solution. Overall design of existing system remains an issue.

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 Schroepfel**

Worksheet #6

STAPLEE Criteria Consideration Table

Mitigation Action Prioritization and Comparison

Jurisdiction	Town of Schroepfel
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