

Village of Sandy Creek

## **Jurisdictional Annex**

### **Village of Sandy Creek**

#### **1.0 Contacts**

The contacts for the Village of Sandy Creek regarding this plan were identified as follows:

- Grant Rohrmoser –Mayor  
Address: PO Box 240, Sandy Creek, NY 13145  
Phone: (315) 387-5091  
Email: [villagesc@frontier.com](mailto:villagesc@frontier.com)
- Sharon Turo –Trustee  
Address: PO Box 240, Sandy Creek, NY 13145  
Phone: (315) 387-3112  
Email: [slturo@earthlink.net](mailto:slturo@earthlink.net)

Village Website: <http://communityny.wixsite.com/sandy-creek/history>

#### **2.0 Municipal Profile**

##### Population

The 2016 American Community Survey estimated that 881 people live in the Village of Sandy Creek. The Town's population has increased since the 2000 Census population (789) by 11.7% (U.S. Census Bureau, 2016).

##### Location

The Village of Sandy Creek is located in the center of the Town of Sandy Creek, which is located in the northwestern corner of Oswego County, bordered by Lake Ontario to the west, the Town of Boylston to the east, and the Town of Richland to the South. The Village of Sandy Creek is bordered by the Village of Lacona to the east. Interstate 81 provides direct access to both Villages and the Town.

##### Brief History

The Village of Sandy Creek was incorporated in 1878. Early on, the area was primarily farmed and a wool fulling and carding mill and tannery began operation the 1820s. The tannery was destroyed by a fire in 1883 and was replaced by the Sandy Creek Wood Manufacturing

Company, Ltd. In 1884. The Plank Road (now U.S. 11) was constructed through the center of the Town and Village of Sandy Creek which promoted settlement and development in the area (Cole, 2016).

### Governing Body

The Village of Sandy Creek is governed by a three (3) member Village Board of Trustees, led by the Mayor. Village residents are also part of the Town of Sandy Creek.

### Future Growth

The Village of Sandy Creek is seeking stable growth. There have been no new commercial or residential developments in the Village since the 2012 County HMP.

## **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
Flood	2	2	3	3	High	2
HAZMAT Transit	1	3	2	1	Moderate	3
Water Supply Contamination	2	3	2	1	Moderate	4
Terrorism	1	3	2	1	Moderate	5
Severe T-Storm/Wind/Tornado	3	1	3	3	High	6

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	7
HAZMAT Fixed	1	3	2	1	Moderate	8

### 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 Village of Sandy Creek. The tables below denote the number and locations of critical facilities within the Village.

Table 2: Critical Facilities in the Village of Sandy Creek			
Facility Name	Address (Street, Town/Town/Hamlet)	Parcel Located in Floodplain	Structure Located in Floodplain
Transportation Network			
Evacuation Routes	-	-	-
Bridges	-	-	-
Emergency and Medical Services			
Sandy Creek Fire Dept.	6026 S Main St, Sandy Creek, NY 13145	No	No
Northern Oswego County Health	124 Salisbury St, Sandy Creek, NY 13145	No	No
Public Utilities			
Citizens Telecom of NY	22 Academy St, Lacona, NY 13145	No	No
National Grid property	off of Lake St	No	No
Water Vault #2	Lake St	-	-
Water Vault #3	US-11	-	-
Water Vault #4	CR 22A	-	-
Municipal Services			
Sandy Creek Village Hall	11 Park Avenue, Lacona NY 13083	No	No
Oswego County Fairgrounds	9261 County Rt 22A, Sandy Creek, NY 13145	100YR	No
Sandy Creek Town Hall	1992 Harwood Dr, Sandy Creek, NY 13145	100YR	No
Educational and Shelter Facilities			
Sandy Creek Elementary School	126 Salisbury St, Sandy Creek, NY 13145	No	No
Sandy Creek High School	124 Salisbury St, Sandy Creek, NY 13145	No	No
Community Services			
U.S. Post Office	6067 S Main St, Sandy Creek, NY 13145	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 Plan.

The probability of climate-related hazard events is expected to increase in the future within the Village of Sandy Creek. 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 Village of Sandy Creek 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 Village of Sandy Creek 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 Village of Sandy Creek 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 Village of Sandy Creek.

##### Future Potential Impacts

The Village of Sandy Creek will continue to experience ice storm events in the future, as will the rest of Oswego County. The Town of Sandy Creek Highway Dept. completes tree maintenance within Town and Village roadways 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 Flood

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

#### Hazard Vulnerability

The Village generally drains to Little Sandy Creek and a Tributary to Blind 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 Village of Sandy Creek 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 2013)			
Village of Sandy Creek Total Area	Percent of Total Area		
	100-Year Floodplain	500-Year Floodplain	Area of Minimal Flood Hazard
862 acres	2.94%	0.00%	97.06%

Table 4 below summarizes the value of properties in the Village of Sandy Creek 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	0	-	0	-
Commercial	3	\$553,900	0	-
Community Services	2	\$1,200,000	0	-
Industrial	0	-	0	-
Residential	20	\$1,159,800	0	-
Utility	0	-	0	-
Other**	5	\$987,200	0	-
Total	30	\$3,900,900	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, no flood records were noted to specifically impact the Village of Sandy Creek. The Village was impacted by areal flooding in late October 2017, which compromised several roadways. The Village has also been impacted by numerous 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, no NFIP loss claims have been paid as of July 2018 in the Village of Sandy Creek. There are no repetitive loss properties in the Village of Sandy Creek.

### Future Potential Impacts

Properties along Little Sandy Creek and its tributaries, and a Tributary to Blind Creek are vulnerable to flooding. Approximately 2.9% of the Village of Sandy Creek is within a mapped 100-year floodplain. Two of the Village's critical facilities, the Oswego County Fairgrounds and Sandy Creek Town Hall, are located on parcels that intersect the 100-year and/or 500-year floodplain (Table 2). However, the facilities themselves are outside of the floodplains.

#### 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 Village 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 does not report any specific severe storm events that occurred in the Village of Sandy Creek. NCDC records reported for the Town of Sandy Creek may have also impacted the Village. Four (4) NCDC records were reported for the Town of Sandy Creek between 2007 and 2017. Three (3) of these events were severe thunderstorm winds and one (1) was a hail event. Estimated property damages for the Town of Sandy Creek ranged from \$10,000 to \$100,000 (Table 5). Actual damages were likely greater than those estimated by the NCDC.

Table 5: Severe Storm Event Records for the Town of Sandy Creek (no specific records reported for the Village of Sandy Creek)				
Event Type	Date	Magnitude	Estimated Property Damage	Estimated Crop Damage
Thunderstorm Wind	6/19/2007	50 kts	\$12,000	-
Thunderstorm Wind	6/10/2008	58 kts	\$100,000	-
Thunderstorm Wind	7/31/2012	50 kts	\$10,000	-
Hail	5/30/2017	0.75 inches	-	-
Total			\$122,000	-

### Future Potential Impacts

Severe storms are a common event in the Village of Sandy Creek 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 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 Village of Sandy Creek is susceptible to damages from a severe winter storm event. The Town of Sandy Creek Highway Dept. clears Town and Village streets during heavy snow events, and works with the Oswego County Highway Dept. for clearing of County roadways. Roadway safety is a major concern during severe winter storm events.

### Historical Hazard Occurrences and Damage Estimates

The Village of Sandy Creek 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 Village of Sandy Creek. The Village of Sandy Creek is located on the Tug Hill Plateau which receives 300 or more inches of snow each year.



### Future Potential Impacts

The Village of Sandy Creek 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.

## *4.2 Technological Hazards*

Technological hazards selected to be profiled for the Village of Sandy Creek are described in detail below.

### 4.2.1 HAZMAT in Transit

#### Hazard Vulnerability

Hazardous Materials (HAZMAT) in Transit events involve the uncontrollable release of flammable, toxic, corrosive, chemically instable, or combustible materials during transport that can damage infrastructure, pollute the environment, and/or cause injuries or death. The Village of Sandy Creek contains several main roadways, Interstate 81, U.S. Route 11, and County Route 15. Interstate 81 and U.S. 11 run north to south through the eastern half and center of the Village, respectively. County Route 15 runs east to west through the center of the Village. A transportation accident involving hazardous materials on any of these roadways has the potential to impact a portion of the Village of Sandy Creek. There are no active railroads in the Village.

#### Historical Hazard Occurrences and Damage Estimates

There are no specific records of HAZMAT in transit events in the Village of Sandy Creek. This hazard has been documented in other portions of the County (see main body of this plan update for details). However, the Village of Sandy Creek elected to include this hazard due to the moderate risk posed by major roadways that run directly through the Village.

### Future Potential Impacts

Although HAZMAT in transit events are infrequent, the Village remains susceptible to future HAZMAT incidents along state 81, U.S. Route 11, and County Route 15.

#### 4.2.2 Water Supply Contamination

##### Hazard Vulnerability

The Village of Sandy Creek would be highly vulnerable to water supply contamination due to the wide extent, fast onset, and moderate damage or injury potential for this hazard. The entire Village is supplied by a public water system, which is supplied by groundwater wells. 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 Village of Sandy Creek. 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 Village is susceptible to a water supply contamination event, but the risk is relatively low.

#### 4.2.3 Terrorism

##### Hazard Vulnerability

Terrorism is defined as the threat or use of violence for political or social gain. Terrorism typically causes community disruption and multiple injuries or deaths. The Village of Sandy Creek is moderately susceptible to a terrorist event due to the event's short onset (little to no warning) and moderate potential impact to Village infrastructure or residents.

##### Historical Hazard Occurrences and Damage Estimates

There are no records of terrorist events in the Village of Sandy Creek or Oswego County. The Village elected to profile this hazard for the HMP update to account for future potential impacts.

##### Future Potential Impacts

With the recent rise in localized terrorism events throughout the country such as shootings in schools and public places, the Village chose to analyze this hazard for the HMP update. However, terrorism remains a low risk for the Village of Sandy Creek. The Village is mostly rural but has two (2) schools, Sandy Creek Elementary and Sandy Creek High School that could be potential targets. The Village also has a public water system that could be impacted.

#### 4.2.4 HAZMAT Fixed Site

##### 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 four (4) petroleum bulk storage sites in the Village of Sandy Creek (Figure 1). These sites include auto repair shops and gas stations. 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 HAZMAT fixed site incidents specifically in the Village of Sandy Creek. The Village elected to profile this hazard due to the presence of hazardous material storage facilities that store or use hazardous materials.

##### Future Potential Impacts

The Village 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.

## 5.0 **Capability Assessment**

### 5.1 *Planning and Regulatory Capability*

The Village'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 Boylston	Notes
Plans		
Comprehensive Plan	X	Joint Comprehensive Plan with Town of Sandy Creek and Village of Lacona- updated in 2013
Post-Disaster Recovery Plan	X	In place.
Comprehensive Emergency Management Plan	X	In place.

Table 6. Planning Mechanisms and Capabilities		
Planning Mechanism	Town of Boylston	Notes
<b>Policies/Ordinances</b>		
Building Codes	<ul style="list-style-type: none"> <li>• 2010 Residential Code of NYS</li> <li>• 2010 Fire Code of NYS</li> <li>• 2010 Building Code of NYS</li> <li>• 2010 Existing Building Code of NYS</li> <li>• 2010 Energy Conservation Construction Code of NYS</li> <li>• 2010 Plumbing Code of NYS</li> <li>• 2010 Mechanical Code of NYS</li> <li>• 2010 Fuel Gas Code of NYS</li> </ul>	Village Code Enforcement Officer
Flood Regulations	X	Adopted.
Site Plan Review Requirements	X	In place.
Real Estate Disclosure Requirement	X	In place.
<b>Programs</b>		
NFIP Participant	X	Current participant.
Public Education/Awareness Program	X	Fire Dept. responsible
Stream Maintenance Program	X	Town of Sandy Creek Highway Dept. Responsible
Storm Maintenance Program	X	Town of Sandy Creek Highway Dept. Responsible
Mutual Aid Agreements	X	Agreements with neighboring jurisdictions and Oswego County
<b>Studies/Reports</b>		
Hazard Analysis/Risk Assessment	X	Oswego County HMP- 2012
Floodplain Maps and/or Studies	X	FEMA- 2013
<b>Staff/Development</b>		
Building Code Official	X	Village Code Enforcement Officer
Local Floodplain Administrator	X	Village Code Enforcement Officer
Public Information Official	X	Mayor
Engineer/Public Works Official	X	On contract
Grant Writer	X	Successfully helped Village obtain 2 grants in the first year

## 5.2 Emergency Communications, Routes, and Shelters

The Village of Sandy Creek, along with Oswego County, utilize the HyperReach emergency communications system. Major transportation routes within the Town include U.S. Route 11, Interstate 81, and County Route 15. The Village of Sandy Creek has one (1) established emergency shelter:

- Sandy Creek Fire Dept.- 6026 S Main St, Sandy Creek, NY 13145

The Fire Dept. is ADA-compliant. During emergencies, pets are sheltered at the old Lacona Fire Hall in the Village of Lacona.

### 5.3 *Temporary and Permanent Housing Locations*

The potential temporary and permanent housing locations listed below were identified for displaced residents in the Village of Sandy Creek based on the 2017 NYS Hazard Mitigation Planning Standards.

- **Potential Temporary Housing Locations**
  - Oswego County Fairgrounds - 9261 County Rt 22A, Sandy Creek, NY 13145
  - Sandy Creek Schools Athletic Fields - 126 Salisbury Street, Sandy Creek, NY 13145
  - Sandy Creek Fire Dept. Parking Lot - 6026 S Main Street, Sandy Creek, NY 13145
- **Potential Permanent Housing Locations**
  - Vacant Village property - off of Franklin Street

## 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 Village of Sandy Creek currently participates in the NFIP. As of July 2018, the Village had no flood insurance policies in-force and no NFIP claims have been filed for properties located within the Village. There are no repetitive loss properties located in the Village of Sandy Creek as of October 2017.

The Village's Code Enforcement Officer serves as the Local Floodplain Administrator, and flood maps are available for viewing and copying at the Village Hall (11 Park Ave, Lacona, NY 13083). The Village has been maintaining NFIP participation by performing the duties and actions that were listed in the local laws adopted by the Village Board. The Village 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 Village of Sandy Creek proposed three (3) mitigation actions in the 2012 Oswego County HMP. The details and status of those actions are described in Table 7 below.

Table 7. 2012 Hazard Mitigation Actions Village of Sandy Creek				
Proposed Mitigation Action	Hazard(s) Mitigated	2012 Goals & Objectives Met	Implementing Agency	Status
Install security alarm for chlorination building, filtration plant, and pump houses	Terrorism	4-c	Village of Sandy Creek highway/DPW dept.	No progress to date due to limited budget/staff availability.
Improve stormwater drainage along Route 11 (between Park St. and Harwood Ave.) and Lake Road (between post office and Harwood Ave.)	Flood, Severe Storm, Winter Storm, Coastal Storm	3-c, 4-d	Village of Sandy Creek Highway Dept., NYSDOT	No progress to date due to limited budget/staff availability.
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 Village did not address this action but emergency signage along I-81 was implemented by the NYSDOT.

## 7.2 Proposed Mitigation Actions

The Village 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 Village of Sandy Creek									
Action ID	Mitigation Action	Hazard(s) Mitigated	Implementing Agencies (Lead* & Support)	Planning Mechanism	Timeframe	New or Existing Development	Estimated Cost	Funding Source(s)	Priority
V-Sandy Creek 1	Install stormwater drainage system throughout Village	Flood	Village DPW*	Comprehensive Plan	1-5 years	Existing	\$1 million	FEMA- PDM; NYSEFC- CWSRF	1
V-Sandy Creek 2	Require underground utilities for new development	Utility Failure, Ice Storm, Severe Storm	Code Enforcement Officer*	Comprehensive Plan	5 years	New	Low	Local budget; Private (utility companies)	2
Potential Funding Sources FEMA PDM: <a href="https://www.fema.gov/pre-disaster-mitigation-grant-program">https://www.fema.gov/pre-disaster-mitigation-grant-program</a> USDA-RD Community Facilities Grant: <a href="https://www.rd.usda.gov/programs-services/community-facilities-direct-loan-grant-program">https://www.rd.usda.gov/programs-services/community-facilities-direct-loan-grant-program</a>									



### 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


- Cole, Charlene. 2016. "Town of Sandy Creek and Villages of Sandy Creek and Lacona". *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. 122-124. 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 –  
Village of Sandy Creek**


Legend


- 


Municipal Boundaries
- 


FEMA 100-Year Floodplain
- 


FEMA 100-Year Floodplain-Floodway
- 


FEMA 500-Year Floodplain
- 


Streams
- 


Active Railroads
- 

Critical Facilities
- 

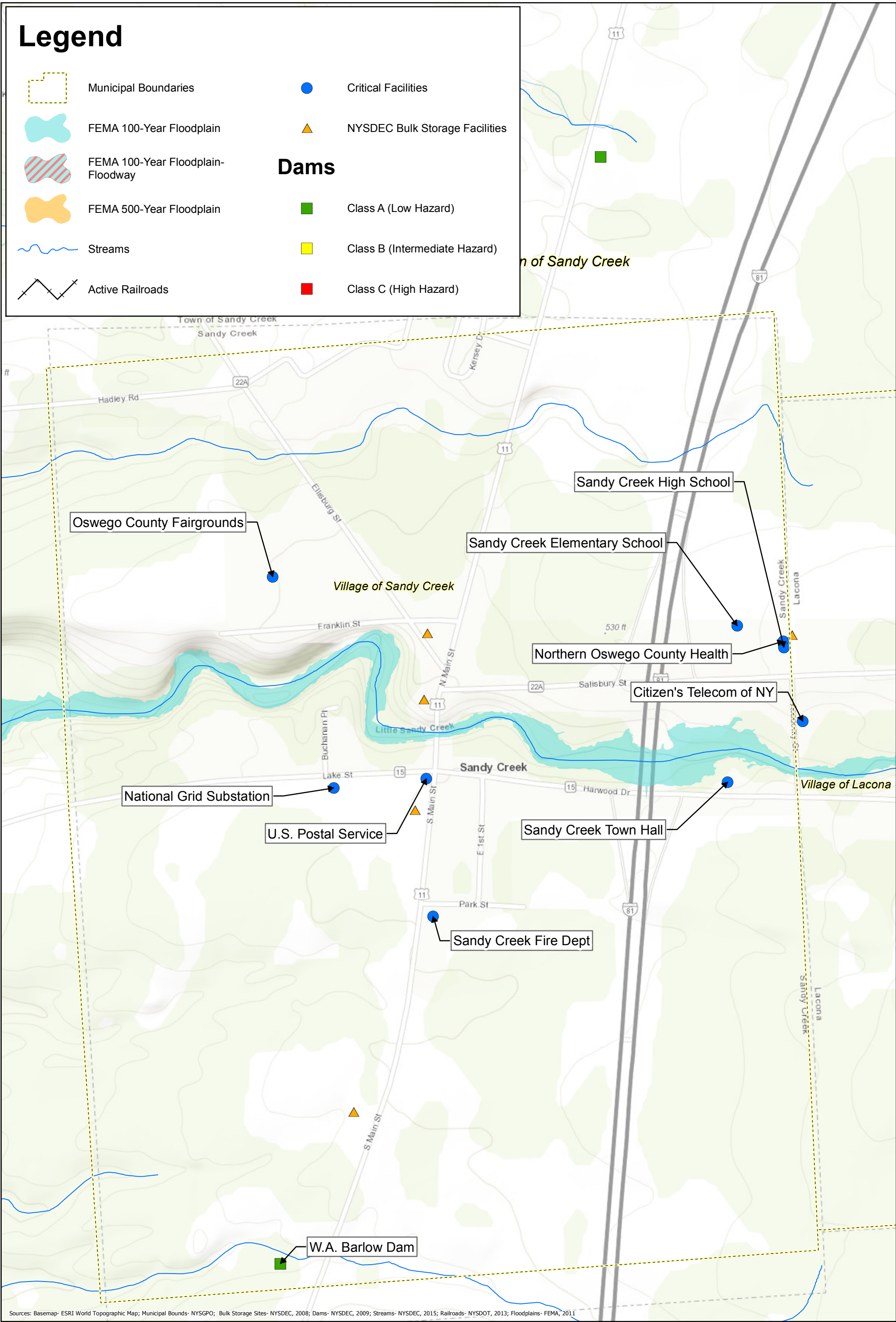
NYSDEC Bulk Storage Facilities
- 

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 –  
Village of Sandy Creek**

## Oswego County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction:	Village of Sandy Creek
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Mitigation Action Worksheet	
Project Name:	Install stormwater drainage system throughout Village
Project Number:	Sandy Creek Village 1
Risk/Vulnerability	
Hazard of Concern:	Flood
Description of the Problem:	Currently the Village experiences repetitive issues with areal flooding caused by inadequate stormwater conveyance.
Action of Project Intended for Implementation	
Description of the Solution:	Install a closed stormwater drainage system throughout the Village to improve stormwater flows during heavy precipitation events and prevent localized flooding issues.

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):	Decrease in future flood damages
Useful Life:	Long-term (20-30 years)		
Estimated Cost:	\$1 million		

Plan for Implementation			
Prioritization:	#1 (High)	Desired Timeframe for Implementation:	1-5 years
Estimated Time Required for Project Implementation:	2 years	Potential Funding Sources:	FEMA- PDM; NYSEFC- CWSRF
Responsible Organization:	Village DPW	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	Future flood risks remain
	Construct stormwater detention ponds to retain flows during heavy precipitation events	\$500,000	Not a complete solution- would target specific areas/roadways
	Install closed stormwater drainage system throughout Village	\$1 million	Best long-term solution to prevent localized flooding

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:	Village of Sandy Creek
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Mitigation Action Worksheet	
Project Name:	Require underground utilities for new development
Project Number:	Sandy Creek Village 2
Risk/Vulnerability	
Hazard of Concern:	Utility Failure, Ice Storm, Severe Storm
Description of the Problem:	Currently, the Village has primarily overhead utilities which pose a greater risk of utility loss during storm events.
Action of Project Intended for Implementation	
Description of the Solution:	Require underground utilities for areas of new development by revising the Village code.

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):	Decreased risk of utility failure during storm events.
Useful Life:	Long-term, ongoing		
Estimated Cost:	\$10,000		

Plan for Implementation			
Prioritization:	#2 (Med)	Desired Timeframe for Implementation:	1-2 years
Estimated Time Required for Project Implementation:	6 months -1 year	Potential Funding Sources:	Village budget
Responsible Organization:	Code Enforcement Officer	Local Planning Mechanisms to be used in Implementation, if any:	Update Village Code, Comprehensive Plan

Three Alternatives Considered (Including No Action)			
	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	Overhead utility lines may continue to be installed for new development
	Require underground utilities by updating Village building code. When existing overhead utilities are in need of replacement consider converting to underground if possible.	\$1,000	Better informed public in general.
	Replace existing overhead utilities with underground utility lines	\$1 million+	Not practical and very expensive.

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

**Attachment B**

**STAPLEE Table –  
Village of Sandy Creek**

## Worksheet #6

## STAPLEE Criteria Consideration Table

### Mitigation Action Prioritization and Comparison

Jurisdiction Village of Sandy Creek

[illegible]