

### *10.2.32 Village of Tuxedo Park*

This section presents the jurisdictional annex for the Village of Tuxedo Park.

#### *10.2.32.1 Contacts*

Primary and secondary contacts regarding this plan are identified as follows:

- David McFadden – Mayor  
80 Lorillard Road, P.O. Box 31  
Tuxedo Park, NY 10987  
(845) 351-4745
- John C. Ledwith, IV – Deputy Village Clerk/Treasurer, Building Inspector  
(845) 351-4745, ext. 3

#### *10.2.32.2 Municipal Profile*

##### *Population*

The population of the Village was six hundred twenty-three (623) as of the 2010 census. This is a 14.8% loss since the 2000 census of seven hundred thirty-one (731).

##### *Location*

Located in the southern portion of Orange County, the Village is situated with the Ramapo River and Harriman State Park to the east. Adjacent townships include Woodbury to the northeast, Monroe to the north, and Warwick to the west. It is located within the Town of Tuxedo which is bordered by the County of Rockland to the southeast; a small portion also borders Passaic County in New Jersey.

##### *Brief History*

Originally settled by the Lenni-Lenape tribe, the Town of Tuxedo took its name from the lake known to the natives as “Tusceto”. The Town became a vacation destination, particularly with the creation of Tuxedo Park, a planned community developed in the 1880s as a hunting and fishing resort by Pierre Lorillard IV.

##### *Governing Body*

The Village is served by the following elected officials: the Mayor, Deputy Mayor, and three (3) trustees.

### *Future Growth*

The Village has seen a decrease in population since the 2000 census. The Village Code poses limits to development in order to preserve historic significance as well as the natural beauty of the area.

### 10.2.32.3 Hazard Vulnerabilities and Ranking

#### *Risk Ranking*

Table 10.2.32a: Hazard Vulnerability by Event	
Hazard Event	Vulnerability
Flood	Moderately High
Severe Storm/ Severe Thunderstorm	Moderately High
Extreme Temperatures	Moderately High
Hurricane	Moderately High
Earthquake	Moderately Low
Tornado	Moderately Low
Winter Storm	Moderately Low
Ice Storm	Moderately Low
Drought	Moderately Low
Wildfire	Low
Ice Jam	Low
Landslide	Low

#### *Critical Facilities*

A list of community Critical Facilities was generated to aid in mitigation planning. The table below summarizes the number of these facilities within the Village of Tuxedo Park which may be impacted by any of the previously noted hazards.

This information was used to identify potential needed improvements to existing Critical Facilities. Critical facilities were identified by the Village as meeting this definition: “Any structure(s) and/or infrastructure within a community whose incapacity or destruction would:

- Have a debilitating impact on the defense or economic security of that community.
- Significantly hinder a community’s ability to recover following a disaster.”

Discretion was left up to the participating jurisdiction to select these facilities.

Table 10.2.32b: Critical Facility and Infrastructure Counts by Category			
Water/Wastewater Systems	Government Services	Emergency Services	Educational/Shelter and Evacuation Facilities
2	2	4	2

Locations of the government building, emergency services, and educational facilities are noted below. None of these facilities are located within the 500-year floodplain.

<b>Table 10.2.32c: Location of CFI in the Village of Tuxedo Park</b>	
<b>Facility Name</b>	<b>Address</b>
<b>Water/Wastewater Systems</b>	
Water Plant	1 Chastellux Lane
Sewer Plant	18 Wee Wah Road
<b>Government</b>	
Village Hall	80 Lorillard Road
Village DPW	77 Wee Wah Road
<b>Emergency Services</b>	
Tuxedo Park Police (2)	1 Tuxedo Road, 460 South Gate Road
Tuxedo Volunteer Ambulance Service	1 Contractors Road
Tuxedo Park Fire Department	2 Contractors Road
<b>Educational</b>	
George F. Baker High School	1 Tornado Drive
George Grant Mason Elementary	11 Hillside Avenue

The Village of Tuxedo Park has zero critical facilities within the 500-year floodplain or the high hazard Landslide Rating<sup>1</sup> area. Below is a table that identifies the structures and hazard issues.

<b>Table 10.2.32d: Village of Tuxedo Park Critical Facilities and Infrastructure in Hazard Areas</b>		
<b>Critical Infrastructure</b>	<b>500-Yr Floodplain</b>	<b>Landslide Rating Area</b>
Note: No Critical Infrastructures effected within the Village of Tuxedo Park		

The Village of Tuxedo Park utilizes Orange for potable water and wastewater treatment services.

Table 2.8a – Orange County NPDES Data lists all wastewater facilities in the County, including the Village of Tuxedo Park, with a NPDES (National Pollutant Discharge Elimination System) permit. In the case of New York State, NPDES permit listing match State Pollutant Discharge Elimination System (SPDES) permit listings.

### **Priority Hazard Events**

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

<sup>1</sup> Areas with a landslide rating in of greater than 37 are considered hazardous. The data was derived from HAZUS software analysis.

The probability of climate-related hazard events is generally expected to increase in the future within the Village of Tuxedo Park. This anticipated increase results from the expected increase in weather volatility associated with climate change. The Village's location in the Ramapo River Watershed also contributes to 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 are nonetheless profiled in this annex to instill future mitigation planning consideration.

### *Flood*

The major hydrology influencing bodies for the Village are Tuxedo Lake, Weewah Lake, a small lake (Pond #2) just north of Tuxedo Lake fed by Warwick Brook.

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).

<b>Table 10.2.32e: Summary of Land Areas in Flood Hazard Areas in the Village of Tuxedo Park</b> <i>(Source: HAZUS, FEMA DFIRM Data)</i>			
<b>Total Land Area (Acres)</b>	<b>100-yr Flood Risk Area</b>	<b>500-yr Flood Risk Area</b>	<b>Low Risk Flood Area</b>
29,049	850 (3%)	101 (>1%)	28,089

Additionally, 7.5% of the Village's improved value areas (defined as property that is either actively utilized or has been developed) are located within the high or moderate risk flood areas (92.5% is within low risk areas).

Below is a table that illustrates the value of property in the Village of Tuxedo Park that is located within the 500-year floodplain and is categorized by land use type. This table was derived from FEMA floodplain mapping and parcel data from the Orange County Property Assessor.

Table 10.2.32f: Structures in the Village of Tuxedo Park Vulnerable to 500-year Flood Events and Their Estimated Values		
Type of Structure	# Structures in Hazard Area	Value of Structures (in millions)
Residential	7	\$1.4
Commercial	0	\$0
Industrial	0	\$0
Agricultural	0	\$0
Religious/Non-profit	0	\$0
Government	0	\$0
Education	0	\$0
Utilities	0	\$0
Dams	0	\$0
Parks	0	\$0
<b>Total</b>	<b>7</b>	<b>\$1.4</b>

#### Historical Occurrence:

Four (4) events were recorded in the Village of Tuxedo Park, within the past ten (10) years due to heavy rain events.

- March 7, 2011 – The East Village Bridge was closed in Tuxedo Park due to the high flow of the Ramapo River. High water levels caused flooding on the bridge which was closed to traffic and inhibited access into and out of certain parts of town.
- March 11, 2011 – Route 17 between the Harriman Train Station and the NY State Thruway in Tuxedo Park was impassable due to flooding.
- July 1, 2013 – Route 17 in Tuxedo Park was closed due to flooding.
- July 27, 2015 – Village Road was closed at Highway 17 in Tuxedo Park due to flash flooding.

#### *Extreme Temperatures*

For a description of this hazard, please see section 5.1.

#### Historical Occurrence:

In the past ten (10) years there is no record of any extreme temperatures that have explicitly impacted the Village of Tuxedo Park. However, there have been a number of recorded occurrences within Orange County. The information can be found in the main body of the document.

### *Severe Storm/Severe Thunderstorm*

The National Weather Service (NWS) defines a severe storm as one with a tornado and/or surface hail  $\frac{3}{4}$ " or greater and/or wind gusts fifty (50) knots (kts) (58 mph) or greater. Such storms can cause damage from wind, hail, heavy rainfall, and/or lightning strikes.

#### Historical Occurrence:

Searching NOAA's Storm Events Database with the queries "Thunderstorm Wind", "High Wind", and "Hail" yielded one (1) event within and around the Village of Tuxedo Park.

- September 18, 2012 – A tree was reported down on Ridge Road.

It is important to note that these events generally affect large geographic areas and reports specific to municipalities aren't often recorded.

### *Tornado*

For a description of this hazard, please see section 5.2.

#### Historical Occurrence:

In the past ten (10) years there is no record of any tornadoes that have explicitly impacted the Village of Tuxedo Park. However, there have been a number of recorded occurrences within Orange County. The information can be found in the main body of the document.

### *Hurricane/Coastal Storms*

For a description of these hazards, please see section 5.3.

#### Historical Occurrence:

In the past ten (10) years there is no record of any hurricanes that have explicitly impacted the Village of Tuxedo Park. However, there have been a number of recorded occurrences within Orange County. The information can be found in the main body of the document.

### *Drought*

For a description of this hazard, please see section 5.5.

#### Historical Occurrence:

In the past ten (10) years there is no record of any droughts that have explicitly impacted the Village of Tuxedo Park. However, there have been a number of recorded occurrences within Orange County. The information can be found in the main body of the document.

### *Landslide*

Landslides occur when a slope fails and moves downward due to gravity; this can be caused by anything that disrupts ground stability, from storms to acts of man. The New York State Geological Survey denotes areas with steep slopes and glacial lake clay soils as landslide vulnerable. While there are no areas within the Village of Tuxedo Park that meet these criteria, the village, has areas with steep slopes and ridgelines, these step terrain areas are generally wooded, increasing the probability for a potential landslide in the future. However, the majority of the Village is located within “low incidence” for landslides.

Below is a table that illustrates the value of property in the Village of Tuxedo Park that is located within the landslide rating area and is categorized by land use type. This table was derived from GIS mapping and parcel data from the Orange County Property Assessor.

<b>Table 10.232g: Structures in the Village of Tuxedo Park Vulnerable to Landslide Events and Their Estimated Values</b>		
<b>Type of Structure</b>	<b># Structures in Hazard Area</b>	<b>Value of Structures (in millions)</b>
Residential	7	\$1.4
Commercial	0	\$0
Industrial	0	\$0
Agricultural	0	\$0
Religious/Non-profit	0	\$0
Government	0	\$0
Education	0	\$0
Utilities	0	\$0
Dams	0	\$0
Parks	0	\$0
<b>Total</b>	<b>7</b>	<b>\$1.4</b>

### Historical Occurrences:

In the past ten (10) years there is no record of any landslides that have explicitly impacted the Village of Tuxedo Park. However, there have been a number of recorded occurrences within Orange County. The information can be found in the main body of the document.

### *Earthquake*

For a description of this hazard, please see section 5.7.

Historical Occurrence:

In the past ten (10) years there is no record of any earthquakes that have explicitly impacted the Village of Tuxedo Park. However, there have been a number of recorded occurrences within Orange County. The information can be found in the main body of the document.

*Winter Storm*

Winter storms create damage due to snowfall and winds, with occasional sleet, freezing rain, or hail occurring. Snowfall impairs visibility, obstructs roadways and facilities, and cause tree limbs to fall and roofs to collapse due to weight. It also creates slick roadways which can be compounded further by sleet or freezing rain events.

Historical Occurrences:

Numerous winter storm events have affected the Village of Tuxedo Park and remain a high risk storm event. Searching the NCDC Storm Events Database with the queries “Blizzard”, “Heavy Snow”, “Sleet”, “Winter Storm”, and “Winter Weather” yielded ninety-seven (97) events that impacted Orange County (1/1/1950-12/31/2015). Damages were not reported for these storm events. However, one (1) death and one (1) injury are attributed to these severe winter storm events.

While the Village was not specifically mentioned in any recorded event, the surrounding Town of Tuxedo was mentioned in the following events:

- February 17-18, 2003 – Known as the Presidents Day Storm, this event resulted in Declared Emergency EM-3184, which specifically included Orange County: With an exceptionally strong high pressure system over New England, a low pressure system developed off the Mid-Atlantic Coast. Periods of light snow developed as northeast winds increased to around fifteen (15) mph across the NYC Metro area Sunday afternoon, February 16. Snow became widespread and heavy, falling at rates up to two (2) to three (3) inches per hour Sunday night and Monday, February 17. Heavy snow blown by northeast winds twenty (20) to thirty (30) mph caused near blizzard conditions throughout the area. Record heavy snowfalls crippled mass transit. These extremely hazardous weather conditions led to local emergency declarations throughout the region. In Orange County Total Snowfall ranged from fourteen (14) inches at Port Jervis to twenty-eight (28) inches at Tuxedo.
- February 25, 2010 – Orange County was hit by a winter storm which deposited record amounts of snowfall across the County. OCDES staff reported thirty-four (34) inches of snow in some parts of the County, while the National Weather Service reported thirty-two (32) inches of snow in Monroe, and twenty-nine (29) inches in both Goshen and Tuxedo. In the northeast US region as a whole, the storm was held responsible for three deaths and more than seven hundred thousand (700,000) homes and businesses were without power for significant periods, including more than twenty-one (21,000) customers of Orange and Rockland Utilities. Approximately two hundred thousand (200,000) customers of Central Hudson Gas and Electric lost power over their full



operating territory, including forty-eight (48,000) in Orange County. The County Executive declared a state of emergency on February 26 as per the following statement:

*The County has determined that road conditions are dangerous and pose a real and substantial risk to vehicular traffic and the public safety is imperiled thereby, and the presence of non-essential vehicles on the roads will impede snow removal equipment and other essential services. Accordingly, I do hereby find that the County of Orange public safety to be imperiled by the said winter storm and, consequently, to safeguard the health and welfare of the public, I declare a County state of emergency for the entire County of Orange, pursuant, inter alia, to New York State Executive Law Section 24, beginning at 6:00 p.m., February 25, 2010 and continuing until 7:00 a.m., February 26, 2010, unless extended by a subsequent Executive Order.*

As a result of this declaration of a County state of emergency all non-essential vehicular traffic was prohibited from all highways and roads within the County between the hours of 6:00 p.m., February 25, 2010 and 7:00 a.m., February 26, 2010. This prohibition did not apply to vehicles engaged in snow removal, sanding, salting and clearing operations.

On March 3, The Orange County Executive issued a request to the State Governor to declare the County a disaster area, giving the following justification:

*The recent storms that severely impacted Orange County and the surrounding areas left in their wake a trail of devastation that is only now being calculated. Initial estimates for Orange County in material and manpower are in excess of \$270,000. The Towns of New Windsor and Newburgh have initial estimates of over \$200,000 in clean up and labor costs; the Town of Wallkill over \$62,000.00; the City of Middletown has initial estimates of just over \$100,000.00 in overtime, sand/salt costs and damage to property. These are just preliminary examples from across the County, not to mention the ongoing recovery to local infrastructure as issues become apparent once the snow is gone.*

### *Ice Storm*

For a description of this hazard, please see section 5.8.

### Historical Occurrence:

In the past ten (10) years there is no record of any ice storms that have explicitly impacted the Village of Tuxedo Park. However, there have been a number of recorded occurrences within Orange County. The information can be found in the main body of the document.

### *Wildfire*

Wildfires can be caused by natural hazards (lightning) but are much more often manmade, either accidental in cause or arson. These most often occur during the summer, associated with the drier conditions which allow vegetation and brush to readily burn.

According to the 2011 Orange County Hazard Mitigation Plan, the Village of Tuxedo Park wildfire risk zone is 83% due to the vast tracts of undeveloped land within the Village.

While the affected areas are usually uninhabited, these events can have long term implications on the Village's resources as well as discourage the tourism industry.

Historical Occurrence:

One of the major contributing factors to severity of wildfires depends on the presence of humans within areas where wildfires would typically occur. The Wildland/Urban Interface (WUI) is the area where houses and wildland vegetation meet. Housing developments alter the structure and function of forests. The 2014 Annual Report for the NYSDEC Division of Forest Protection indicates that there were twenty-three (23) wildfires within Zone 3B which includes the Village of Tuxedo Park. These wildfires burnt a total of two hundred and thirty-nine (239) acres; none of these wildfires were over one hundred (100) acres in size. The 2013 Annual Report for the NYSDEC Division of Forest Protection indicates that there were eleven (11) wildfires in Zone 3B that year. Two of these wildfires were over one hundred (100) acres in size, a total of 672.6 acres were burnt during wildfires during the 2013 wildfire season. The 2012 Annual Report for the NYSDEC Division of Forest Protection shows that there were seven wildfires in Zone 3B that year. One of these wildfires was over one hundred (100) acres in size with a total of 507.6 acres burning during wildfires in the 2012 wildfire season.

*Ice Jam*

For a description of this hazard, please see section 5.10.

Historical Occurrence:

In the past ten (10) years there is no record of any ice jams that have explicitly impacted the Village of Tuxedo Park. However, there have been a number of recorded occurrences within Orange County. The information can be found in the main body of the document.

### 10.2.32.4 Capability Assessment

#### *Planning and Regulatory Capability*

Table 10.2.32h: Legal and Regulatory Capabilities for Village of Tuxedo Park		
Regulatory Tools for Hazard Mitigation	Description	Responsible Department/Agency
Codes and/or Ordinances	<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 Exiting 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>	Building Department
	<ul style="list-style-type: none"> <li>Zoning Ordinance (Chapter 100)</li> <li>Subdivision Ordinance (Chapter 85)</li> <li>Floodplain Ordinance (Chapter 55)</li> <li>Natural Hazard Ordinance (Wee Wah Lake)</li> </ul>	Planning Board
Plans, Manuals, and/or Guidelines	<ul style="list-style-type: none"> <li>Stormwater Management</li> <li>Capital Improvements Plan</li> <li>Local Emergency Operations Plan (In Progress)</li> <li>Continuity of Operations Plan</li> <li>Community Wildfire Protection Plan (In Progress)</li> <li>Dam Safety</li> </ul>	Planning Board
Studies	<ul style="list-style-type: none"> <li>FIRM Flood Insurance Rate Maps, 2009</li> </ul>	Village Board/Village DPW

#### *Administrative and Technical*

Table 10.2.32i: Summary of Administrative and Technical Staff Capabilities for the Village of Tuxedo Park		
Staff/Resources	<input checked="" type="checkbox"/>	Notes
Chief Building Official	<input checked="" type="checkbox"/>	Building Inspector
Floodplain Administrator	<input checked="" type="checkbox"/>	Village Consultant Engineer
Emergency Manager	<input checked="" type="checkbox"/>	Village Police Chief
Community Planner	<input checked="" type="checkbox"/>	Village Planning Board, Village Architectural Review Board, Village ZBA
Civil Engineer	<input checked="" type="checkbox"/>	Village Consultant Engineer
GIS Coordinator/HAZUS	<input checked="" type="checkbox"/>	Village Consultant Engineer / Building Inspector
Grant Writer	<input checked="" type="checkbox"/>	Consultant as needed

Table 10.2.32i: Summary of Administrative and Technical Staff Capabilities for the Village of Tuxedo Park		
Staff/Resources	<input checked="" type="checkbox"/>	Notes
Maintenance Programs to Reduce Risk (tree trimming, etc.)	<input checked="" type="checkbox"/>	Village DPW, Orange & Rockland Utilities
Mutual Aid Agreements	<input checked="" type="checkbox"/>	Tuxedo Joint Fire District, Town Ambulance Corps, Town Police Dept., Town Highway Dept.
Mitigation Planning Committee	<input checked="" type="checkbox"/>	Mayor, DPW Superintendent, Building Inspector, Village Clerk, Community Volunteer(s)

### Fiscal

Table 10.2.32j: Fiscal Opportunities for the Village of Tuxedo Park		
Financial Resources	Accessible or Eligible to Use (Yes, No, Don't Know)	Comments
Community Development Block Grants	No	N/A
Capital Improvements Project funding	Yes	Various projects
Authority to levy taxes for specific purposes	Yes	Various projects
Fees for water, sewer, gas, or electric service	Yes	Fees can be spent on water and sewer infrastructure
Impact fees for homebuyers or new developments/homes	Yes	Various projects
Incur debt through general obligation bonds	Yes	Various projects-
Federal/State Grant Funding	No	N/A
Federal/State Loan Funding	Yes	Low Interest Loans

### NFIP: Administrator, Vulnerability, Resources, Compliance

The Village of Tuxedo Park Village Consultant Engineer serves as the Floodplain Administrator. The Village began participation (policy ID 361595) on July 8, 2009. As of January 31, 2018, three (3) policies are in effect for a total value of \$560,000. According to Table 8.2c, there are six (6) repetitive flood loss properties within the Village of Tuxedo Park – three (3) of which are considered severe repetitive loss properties. More NFIP data can be found in Section 8.2.

The Village is considered to be in compliance. The Village has been maintaining NFIP participation by performing the duties and actions that were listed in the local laws that their municipal boards adopted. (Local Law #6 of 2009) The Village Floodplain Administrator has been provided an NFIP best practices guidance package and will be using it to improve local

participation in NFIP standards going forward. This package of documents was provided by NYSDHSES and can be found in Appendix F - NFIP Floodplain Administrator Guidance Package.

### *Hazard Mitigation: Existing and Planning Mechanisms*

#### Emergency Communications, Routes, and Shelters:

The Village of Tuxedo Park and Orange County participate in the CodeRED Emergency Communication System.

The Village follows emergency route rules set by Orange County. The Village has one (1) designated emergency shelter: St. Mary's In-Tuxedo Episcopal Church (10 Fox Hill Rd., PO Box 637, Tuxedo Park, NY 10987). More information on these sites can be found in Attachment III.

#### Comprehensive Plan:

The Village does not have a comprehensive plan.

#### Planning Mechanisms:

While this annex has provided a summary and description of existing plans, policies, and regulatory mechanisms that support hazard mitigation, the 2018 Orange County Hazard Mitigation Plan Update is intended to allow for the integration of its recommendations and data into local plans. Listed below are several planning and policy mechanisms that lend themselves to the integration of materials and objectives from this hazard mitigation plan. Columns to the right indicate whether the municipality has utilized hazard mitigation planning elements in the past (as in the aftermath of a previous local hazard mitigation plan) and whether they intend to be utilized in the future (which most, if not all, do).

Table 10.2.32k: Incorporation of Hazard Mitigation Planning into Existing and Future Planning Mechanisms		
Planning Mechanism	Has been Utilized	May be Utilized
<b>Capital Improvement Budget:</b> Hazard Mitigation Actions to be considered during the development of annual capital improvement plans. Compliance with Hazard Mitigation goals and objectives as well as the hazard vulnerability of site will be a consideration during the evaluation of infrastructure and facilities projects.		X
<b>Operating Budget:</b> Hazard Mitigation Actions to be considered within day-to-day operating budgets as funding permits.		X
<b>Building &amp; Zoning Ordinances:</b> Review of the hazard mitigation plan and hazard analyses are part of the evaluation of land use, zoning, and development review ordinances and permitted processes.		X
<b>Comprehensive Land Use Plan:</b> Elements such as hazard vulnerability and hazard area extents will be considered during the development of future land use maps and other elements of comprehensive planning.		X
<b>Human Resource Manual:</b> Employee job descriptions may contain elements related to hazard mitigation planning and associated recommendations.		X

Table 10.2.32k: Incorporation of Hazard Mitigation Planning into Existing and Future Planning Mechanisms		
Planning Mechanism	Has been Utilized	May be Utilized
<b>Grant Applications:</b> Support for funding requests in the form of data, maps, and priority recommendations will be drawn from the hazard mitigation plan.		X
<b>Fire Plan:</b> Fire Plans for the municipality and local fire departments can utilize data and mapping in the hazard mitigation plan.		X
<b>Local School Service Projects:</b> Municipal officials and staff can explore the possibility of collaboration with local school districts to provide avenues for student community service projects as well as educational opportunities.		X
<b>Economic Development:</b> Local chambers of commerce and other economic development agencies can utilize the hazard mitigation plan to better inform new/expanding businesses in finding a location.		X

### Summary

The Village currently has several hazard event ordinances in place in the Village Code. This Hazard Mitigation Plan will serve to further identify mitigation action and plans to inform the Village Codes specific to hazard events.

### 10.2.32.5 Mitigation Strategy and Prioritization

#### *Past, Completed, and Ongoing Initiatives*

The Village has not identified any past, completed, and ongoing initiatives.

#### *Proposed Initiatives*

Table 10.2.32l: Mitigation Actions/Projects Identified by Village of Tuxedo Park			
Action	Description	Involved Agency(ies)	Funding Source(s)
TP-1	Generator needed at Tuxedo Park Police Department. Plans to relocate Village Hall to existing PD building.	Village Board (lead), Town Police Dept.; Orange & Rockland Utilities	HMG
TP-2	Generator needed at water pump station to supply water for drinking and fire protection.	Village Board (lead), Village DPW; Orange & Rockland Utilities	HMG
TP-3	Dam Spillway controls, alarms, and security video for Tuxedo Lake Dam, Pond No. 3 Dam, and Wee Wah Dam	Village Board (lead), NYSDEC, Orange County Health Department	HMG
TP-4	Tree removal due to severe storm damage; needed to provide emergency access during power failures. Tree assessment of species vulnerable to forest fire.	Village Board, Tuxedo Fire Department, Village DPW, Orange & Rockland Utilities (lead)	HMG

STAPLEE forms were completed for each of these actions. A table with these evaluations can be found in Attachment II of this jurisdictional annex.

“STAPLEE” refers to the following lenses of evaluation: social, technological, administrative, political, legal, economic, and environmental.

#### *Future Needs*

The Village has identified a future need of having Orange & Rockland Utilities relocate electrical lines and services underground. Currently, occasional utility failures are an unintended result of a tree ordinance that limits tree trimming.

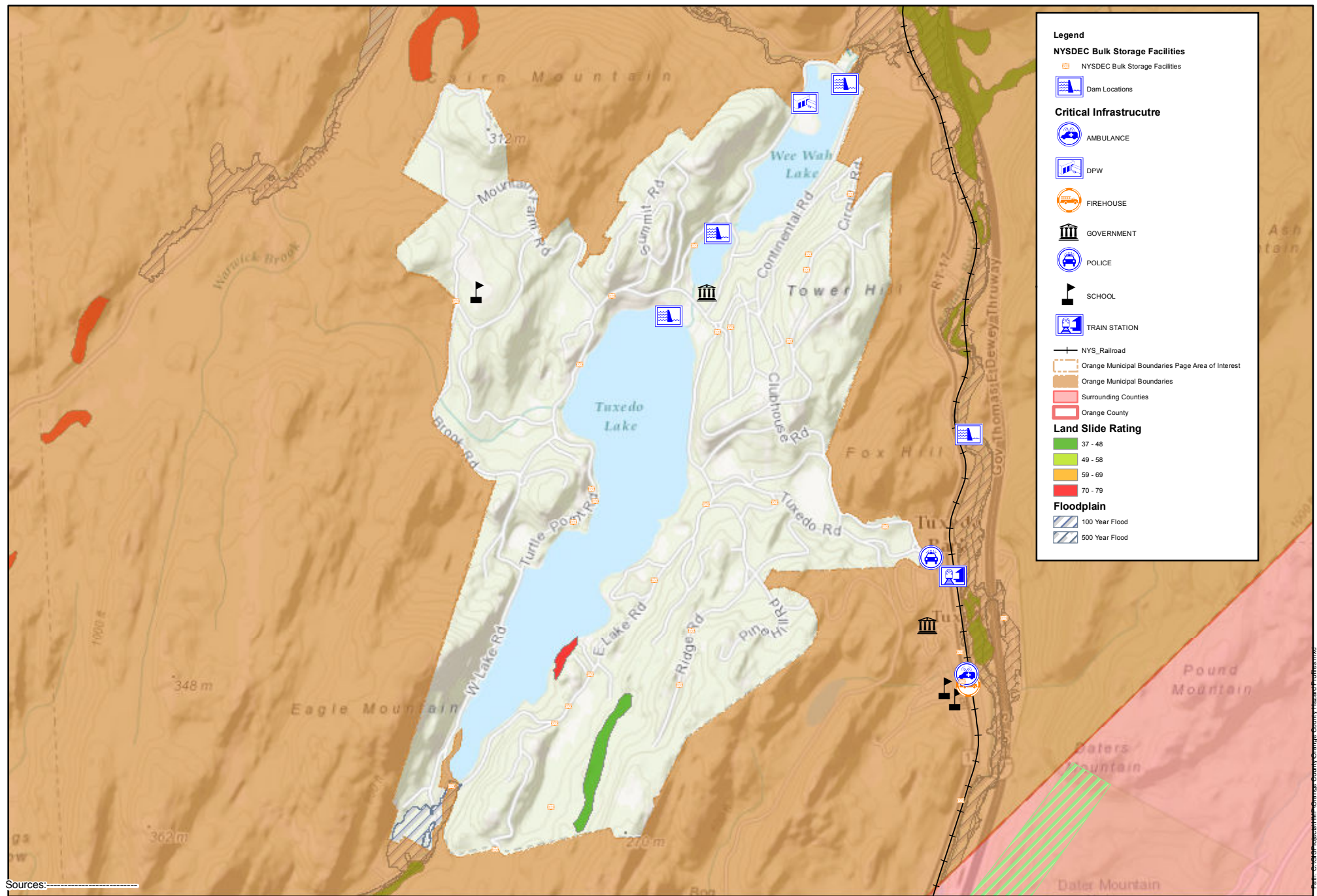
#### **10.2.32.6 Hazard Area Extent and Location**

A map demonstrating the location of certain hazard areas is attached as Attachment I.

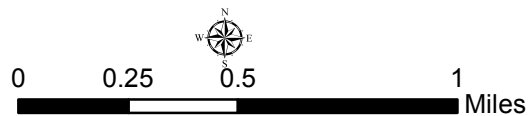
**Attachment I**

**Hazard Area Extent and Location Map -  
Village of Tuxedo Park**





Sources:-----



## **Attachment II**

### **STAPLEE Mitigation Action Cost/Benefit Analysis - Village of Tuxedo Park**

**STAPLEE Criteria Consideration Tables**  
**Mitigation Action Prioritization and Comparison**

**Jurisdiction:**

**Village of Tuxedo Park**

Action ID	Action	S	T	A	P	L	E	E	Can action be easily implemented?	Does action achieve multiple plan objectives?	Can action be quickly implemented?	Level of action benefits	Level of action overall costs	Priority ranking
		+ = benefit (favorable), - = cost (unfavorable), 0 = neutral or N/A										Levels = high, medium, or low		
TP-1	Generator needed at Tuxedo Park Police Department; plans are underway to relocate Village Hall to existing PD building	+	+	+	+	+	+	0	+	+	0	High	Medium	High
TP-2	Generator needed at water pump station to supply water for drinking and fire protection	+	+	+	+	+	+	0	+	+	0	High	Medium	High
TP-3	Dam Spillway controls, alarms, and security video for Tuxedo Lake Dam, Pond No. 3 Dam, and Wee Wah Dam	+	+	-	+	+	-	+	-	+	-	High	High	High
TP-4	Tree removal due to severe storm damage; needed to provide emergency access during power failures. Tree assessment of species vulnerable to forest fire	+	+	0	+	+	+	0	0	+	0	Medium	Low	High

**Attachment III**

**Hazard Mitigation Worksheets -  
Village of Tuxedo Park**

## Mitigation Actions and Strategy Detail Worksheet

<b>Action Worksheet</b>	
Name of Jurisdiction	Village of Tuxedo Park
Name of Hazard Mitigation Plan	Orange County
<b>Potential Actions/Projects (not being implemented at this time)</b>	
Action/Project Number	Generator 1 - Tuxedo Park Police Dept.
Name of Action/Project	Generator 1 - Tuxedo Park Police Dept.
Summary of Evaluation: Benefits (losses avoided), estimated costs, and other factors considered	Generator needed at Police Dept. Plans are in place to relocate Village Hall to existing Police Dept. building.
<b>Plan for Implementation</b>	
Responsible Organization	Village of Tuxedo Park
Action/Project Priority	High
Potential Funding Sources	Hazard Mitigation Grant
Other assisting organizations, entities, etc.	Orange & Rockland Utilities
Local planning mechanisms to be used in project/action implementation, if any	Local building codes. NEC
<b>Progress Report</b>	
Date of status report	
Report of progress	
Evaluation of effectiveness	

## Mitigation Actions and Strategy Detail Worksheet

<b>Action Worksheet</b>	
Name of Jurisdiction	Village of Tuxedo Park
Name of Hazard Mitigation Plan	Orange County
<b>Potential Actions/Projects (not being implemented at this time)</b>	
Action/Project Number	Generator 2 - Tuxedo Park Water Dept.
Name of Action/Project	Generator 2 - Tuxedo Park Water Dept.
Summary of Evaluation: Benefits (losses avoided), estimated costs, and other factors considered	Generator needed at water pump station to supply water for drinking and fire fighting protection
<b>Plan for Implementation</b>	
Responsible Organization	Village of Tuxedo Park
Action/Project Priority	High
Potential Funding Sources	Hazard Mitigation Grant
Other assisting organizations, entities, etc.	Orange & Rockland Utilities
Local planning mechanisms to be used in project/action implementation, if any	Local building codes. NEC Orange County Health Dept.
<b>Progress Report</b>	
Date of status report	
Report of progress	
Evaluation of effectiveness	

Orange County  
Multi-Jurisdictional All Natural Hazard Mitigation Plan  
Emergency Shelter Questionnaire

Name of Your Municipality:	<u>Village of Tuxedo Park</u>
Common Name of Your Emergency Shelter:	<u>St. Mary's In-Tuxedo Episcopal Church</u>
Street Address of Your Emergency Shelter:	<u>10 Fox Hill Road, P.O. Box 637</u>
	<u>Tuxedo Park, NY 10987</u>
Name of the Owner of Your Emergency Shelter:	<u>St. Mary's In-Tuxedo Episcopal Church</u>
Name of the Regular Occupant of Your Emergency Shelter:	<u>St. Mary's In-Tuxedo Episcopal Church</u>

Name of Jurisdiction: \_\_\_\_\_

**RESOLUTION**  
**TO AUTHORIZE THE ACCEPTANCE AND ADOPTION OF THE**  
**MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE FOR**  
**ORANGE COUNTY, NEW YORK**

**WHEREAS**, the Orange County Department of Emergency Services, with the assistance from Barton & Loguidice, D.P.C., has gathered information and prepared the Multi-Jurisdictional Hazard Mitigation Plan Update for Orange County, New York; and

**WHEREAS**, the Multi-Jurisdictional Hazard Mitigation Plan Update for Orange County, New York has been prepared in accordance with the Disaster Mitigation Act of 2000 and Title 44 Code of Federal Regulations (CFR), Part 201; and

**WHEREAS**, Title 44 CFR, Chapter 1, Part 201.6(c)(5) requires each local government participating in the preparation of a Multi-Jurisdictional Mitigation Plan or Plan Update to accept and adopt such plan; and

**WHEREAS**, the Village of Tuxedo Park, has reviewed the 2016 Multi-Jurisdictional Hazard Mitigation Plan Update for Orange County, has found the document to be acceptable, and as a local unit of government, has afforded its citizens an opportunity to comment and provide input regarding the Plan Update and the actions included in the Plan;

**WHEREAS**, the Village of Tuxedo Park, will consider the Multi-Jurisdictional Hazard Mitigation Plan Update for Orange County during the implementation and updating of local planning mechanisms, and will incorporate the hazard assessment data, hazard vulnerabilities, and mitigation actions in these mechanisms, where applicable;

**NOW THEREFORE, BE IT RESOLVED**, that the Village of Tuxedo Park, as a participating jurisdiction, adopts the Multi-Jurisdictional Hazard Mitigation Plan Update for Orange County, New York, dated May 2016.

This resolution was thereupon declared duly adopted on \_\_\_\_\_.

\_\_\_\_\_  
(Mayor)

\_\_\_\_\_  
(Clerk)