



Tioga County Industrial Development Agency
October 6, 2021 – 4:30 pm
Ronald E Dougherty County Office Building
56 Main Street, Owego, NY 13827
Hubbard Auditorium, 1st Floor
Agenda

- I. Call to Order and Introductions**
- II. Attendance**
 - IDA Board Members
 - Roll Call: J. Ceccherelli, K. Gillette, T. Monell, M. Sauerbrey, J. Ward, E. Knolles, A. Gowan
 - Excused:
 - Guests: C. Curtis, M. Griffiths, J. Meagher, L. Tinney
- III. Privilege of the Floor:**
 - Elaine Jardine, Planning Director and Pete DeWind, County Attorney**
 - Jason Bellis, Larson Design Group**
[Wetland Delineation Report](#)
- IV. Approval of Minutes**
 - A. [September 1, 2021 Regular Meeting Minutes](#)
 - B. [September 30, 2021 Loan Committee Meeting Minutes](#)
- V. Financials**
 - A. [Balance Sheet](#)
 - B. [Profit & Loss](#)
 - C. [Transaction Detail](#)
- VI. ED&P Update: L. Tinney**
 - A. [Village of Owego Grants & Investment](#)
- VII. Project Updates: L. Tinney & C. Curtis**
 - A. Owego Gardens II
 - 1. [Updated Project Cost Spreadsheet](#)
 - B. STREDC Shovel Ready Loan
 - C. [DOL Notice](#)
- VIII. Committee Reports: C. Curtis**
 - A. Public Authority Accountability Act (PAAA)
 - 1. Audit Committee Report: A. Gowan, E. Knolles, J. Ward
 - a. No report
 - 2. Governance Committee: J. Ceccherelli, A. Gowan, E. Knolles
 - a. No report



3. Finance Committee: J. Ceccherelli, A. Gowan, J. Ward
 - a. [IDA Budget](#)
 - b. [IDA Budget Detail](#)
4. Loan Committee: S. Thomas, A. Gowan, R. Kelsey, K. Dougherty, D. Barton, J. Ward, E. Knolles
 - a. No report
5. Railroad Committee: M. Sauerbrey, K. Gillette, T. Monell
 - a. No report

IX. PILOT Updates: C. Curtis

- A. Sales Tax Exemptions Update:
 1. Owego Gardens II – Home Leasing - \$29,633.49/Authorized \$524,194
 2. RB Robinson - \$4,605.77/Authorized \$55,990
- B. School & Village PILOTs received
- C. SunEast Valley Solar
 1. [Resolution](#)

X. Grant Updates: C. Curtis

- A. Monkey Run FEMA Application – Approved – Total Project Cost \$28,316.26; Awarded Federal Share \$21,237.20; Awarded State Share \$3,539.53; TCIDA Match \$3,539.53
 1. JB’s Excavation completed project
- B. New York State Division of Homeland Security and Emergency Services (DHSES) DR-4567 Planning Grant – Richford Railroad
 1. Resolution authorizing application

XI. Motion to move into Executive Session pursuant to Public Officers Law Section 105

XII. Next Meeting: Wednesday November 3, 2021

AQUATIC RESOURCE REPORT

Strong Road Parcels

Town of Owego, New York, 13827

PREPARED FOR:

Tioga County Industrial Development Agency
56 Main Street, Suite 16
Owego, NY, 13827

PREPARED BY:

Larson Design Group
1000 Commerce Park Drive, Suite 201
Williamsport, PA 17701

LDG Project No. 7557-006

September 2021



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- F. Soils Report



1.0 INTRODUCTION

Larson Design Group (LDG) has been retained by the Tioga County Industrial Development Agency to complete an aquatic resource delineation on two parcels of land located in the Town of Owego, Tioga County, NY (See Project Location Map). The parcels include the Rizzuto Property (TM#129.00-1-2.1); aka “Site #1”, which is approximately 38.81 acres, and a portion of the TCIDA Property (TM#12900-1-3.1); aka “Site #2”, which is approximately 36 acres. Located just south of I-86 and the Susquehanna River, the parcels are situated in a residential area north of Strong Road, with nearby industrial and commercial development. The area of investigation included approximately 38.81 acres of woodlands (Site #1) and an open, unmaintained, 36-acre field (Site #2). The woodlands are largely undisturbed, while the field displays signs of previous agricultural activity. Density and diversity were normal throughout the investigative area. LDG evaluated the area of investigation (AOI) for the presence of wetlands and watercourses on August 25th, 2021.

The following sections document the protocol used in determining the occurrence of wetland and watercourse habitats, current site conditions, and the results of the investigations.

2.0 METHODOLOGY

The wetland delineation was conducted in accordance with the *1987 U.S. Army Corps of Engineers Wetlands Delineation Manual and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Regional Supplement 2012*.

Based on USACOE Protocol, the following criteria are required for an area to be considered as wetland habitat:

- hydrophytic vegetation
- hydric soil
- wetland hydrology

The presence of these three parameters is mandatory under normal field conditions for an area to be classified as a wetland. In areas where one or more of these parameters are disturbed, a determination is made as to whether the three criteria would be present under normal circumstances. During this investigation, identified wetlands were flagged with pink wetland delineation flagging and labeled.

Vegetation, soils, and hydrology were documented at sampling points throughout the study area. The information obtained at sampling points was documented on data forms as per the 1987 USACOE Manual Protocol (See attached Data Forms in Appendix D).

The stream delineation and classification were conducted in accordance with the *New York State Department of Environmental Conservation; Hudson River Estuary Program Streams 101* stream flow definitions. This webinar series and online document provides environmental regulatory guidance on how to properly classify waters in New York State. The following conditions were considered by Larson Design Group when identifying stream types:

- Geomorphic features
- Hydrologic features



- Biological features

The presence/ absence of continuous stream flow establishes the geomorphic, hydrologic, and biological characteristics of streams. Stream determinations were made by examining a stream reach to properly designate the watercourse. The following parameters were taken into consideration during the evaluation: water source, defined bed and bank relationship, type of substrate, stream processes and stream stability, and macroinvertebrate/ aquatic life.

3.0 BACKGROUND INFORMATION

3.1 Site Description

The project area consists of two parcels of land comprised of woodlands and an open, unmaintained field. The woodlands account for 38.81 acres and are largely undisturbed, while the approximately 36-acre field shows signs of previous agricultural activity. The project area is on relatively flat to moderate terrain with normal vegetative density and diversity. Vegetation within the field consists mainly of herbaceous and shrubby vegetation, while the woodlands contain a mix of pines and hardwoods. The surrounding land is comprised mostly of residential properties.

3.2 Soils Information

The NRCS Web Soil Mapper identified seven (7) soil types within the investigation area as shown in Table 1.

TABLE 1: SOILS WITHIN THE PROJECT AREA

NAME	MUSYM	SLOPE	HYDRIC RATING
Chippewa channery silt loam	Cc	0 to 8%	92
Mardin-Volusia complex	Cdr	8 to 15%	3
Mardin-Volusia complex	Cdu	0 to 8%	5
Lordstown flaggy silt loam	Lfv	45 to 60%	0
Mardin channery silt loam	Mcu	0 to 8%	0
Volusia channery silt loam	Vcl	0 to 8%	5
Woostern gravelly silt loam	Wh	16 to 25%	0

Please refer to the attached Soils Report for additional information pertaining to the soils in the project area. Soils information specific to the identified wetlands is located within Section 4.1 of this Report.



3.3 National Wetlands Inventory Status

The National Wetlands Inventory (NWI) was reviewed to determine whether any NWI wetlands were located within the area of investigation. The NWI Program under the U.S. Fish and Wildlife Service (FWS) is responsible for the mapping and inventory of major wetlands within the United States. The FWS Wetlands Mapper (<http://www.fws.gov/Wetlands/Data/Mapper.html>) was used to review NWI wetlands within the area of investigation. Based on FWS Wetlands Mapper, no wetlands were mapped within the AOI, but a freshwater pond was established just outside of the western boundary of the AOI. A map of the project area from the FWS Wetlands Mapper is located in Appendix C.

3.4 Watershed and Stream Designations

This project is located within both the Owego Creek and Susquehanna River watersheds. No streams were identified within the project area. The New York State Department of Environmental Conservation, Waterbody Classification for Streams/Rivers (Environmental Resource Mapper (ny.gov)) was used to review stream designations within the area of investigation.

4.0 RESULTS

The field investigation revealed the presence of two (2) wetlands within the investigative area. These aquatic resources are shown in the attached Delineation mapping. Identified aquatic resources are listed in Table 2 below.

TABLE 2: IDENTIFIED AQUATIC RESOURCES: WETLANDS AND STREAMS

WATERS NAME	COWARDIN CODE	HGM CODE	WATERS TYPE	DELINEATED AREA (AC/LF)
Wetland 1	PEM1	DEPRESS	DELINEATE	0.089 AC
Wetland 2	PEM1	DEPRESS	DELINEATE	0.119 AC

ACRONYMS

PEM1 – Palustrine Emergent Persistent Wetland

4.1 Identified Wetlands

During the investigation, two (2) wetland habitats were identified within the investigative area. Descriptions of the identified wetlands are listed below.

Wetland 1 is a PEM1 depressional wetland located on the edge of a field in the northwest corner of Site #2. The wetland is formed from improper drainage downslope due to disturbance. The common plants within this wetland consist of Flat-Top Goldenrod (*Euthamia graminifolia*), Arrow-Leaved Tearthumb (*Persicaria sagittate*), Sensitive Fern (*Onoclea sensibilis*), Allegheny Blackberry (*Rubus allegheniensis*), and Chufa (*Cyperus esculentus*). The soils in the diagnostic soil horizon exhibited hydric conditions based on the Loamy Gleyed Matrix (F2) hydric soil indicator. Wetland hydrology observed at the time of investigation consisted of Saturation (A3).



Wetland 2 is a PEM1 depressional wetland located in the southeast corner of Site #2. The wetland is sustained by a groundwater seep on the northern section of the wetland. The common plants within this wetland consist of Rough Goldenrod (*Solidago rugosa*), Giant Goldenrod (*Solidago gigantea*), Flat-Top Goldenrod (*Euthamia graminifolia*), Bird's Foot Trefoil (*Lotus corniculatus*), Reed Canary Grass (*Phalaris arundinacea*), Fox Sedge (*Carex vulpinoidea*), and Soft Rush (*Juncus effusus*). The soils throughout the soil profile exhibited hydric conditions based on the Depleted Matrix (F3) hydric soil indicator. Wetland hydrology indicators observed at the time of investigation consisted of Saturation (A3).

4.2 Watercourses

During the investigation, no streams were identified within the AOI.

5.0 CLOSING REMARKS

This report presents an unverified Jurisdictional Determination of the project site based on the author's scientific opinion. All work was done in accordance with the *1987 U.S. Army Corps of Engineers Wetland Delineation Manual* and the *Northcentral and Northeast Regional Supplement*. Any impacts to identified wetlands may require state and/or federal permitting. Prior to any disturbance of aquatic habitats, authorization must be obtained from the United States Army Corps of Engineers and/or the New York State Department of Environmental Conservation.

6.0 LIST OF PREPARERS

Kenneth Stockert – Senior Project Manager, Larson Design Group

Education: B.S. Environmental Resource Management, The Pennsylvania State University
Experience: 30 years environmental consulting; 3 years as Instructor for Wetland Delineation at the Community College of Allegheny County
Training: Wetland Delineation using the USACOE 1987 Methodology
Role in Project: Report Preparation
Contact Information: kstockert@larsondesigngroup.com or (724) 528-0392

Robert Cawthern, Senior PWS – Senior Environmental Specialist, Larson Design Group

Education: B.S. Agronomy, Delaware Valley College of Science and Agriculture
Experience: 34 Years
Training: Army Corps Delineation Training – Environmental Concern
Role in Project: Field Investigations, Report Preparation
Contact Information: rcawthern@larsondesigngroup.com or (724) 680-1515

Tom Kocur – Senior Environmental Technician, Larson Design Group

Education: B.S., Pennsylvania State University
Experience: 6 years environmental consulting
Role in Project: Field Investigations, Report Preparation
Contact Information: tkocur@larsondesigngroup.com or (724) 591-8562

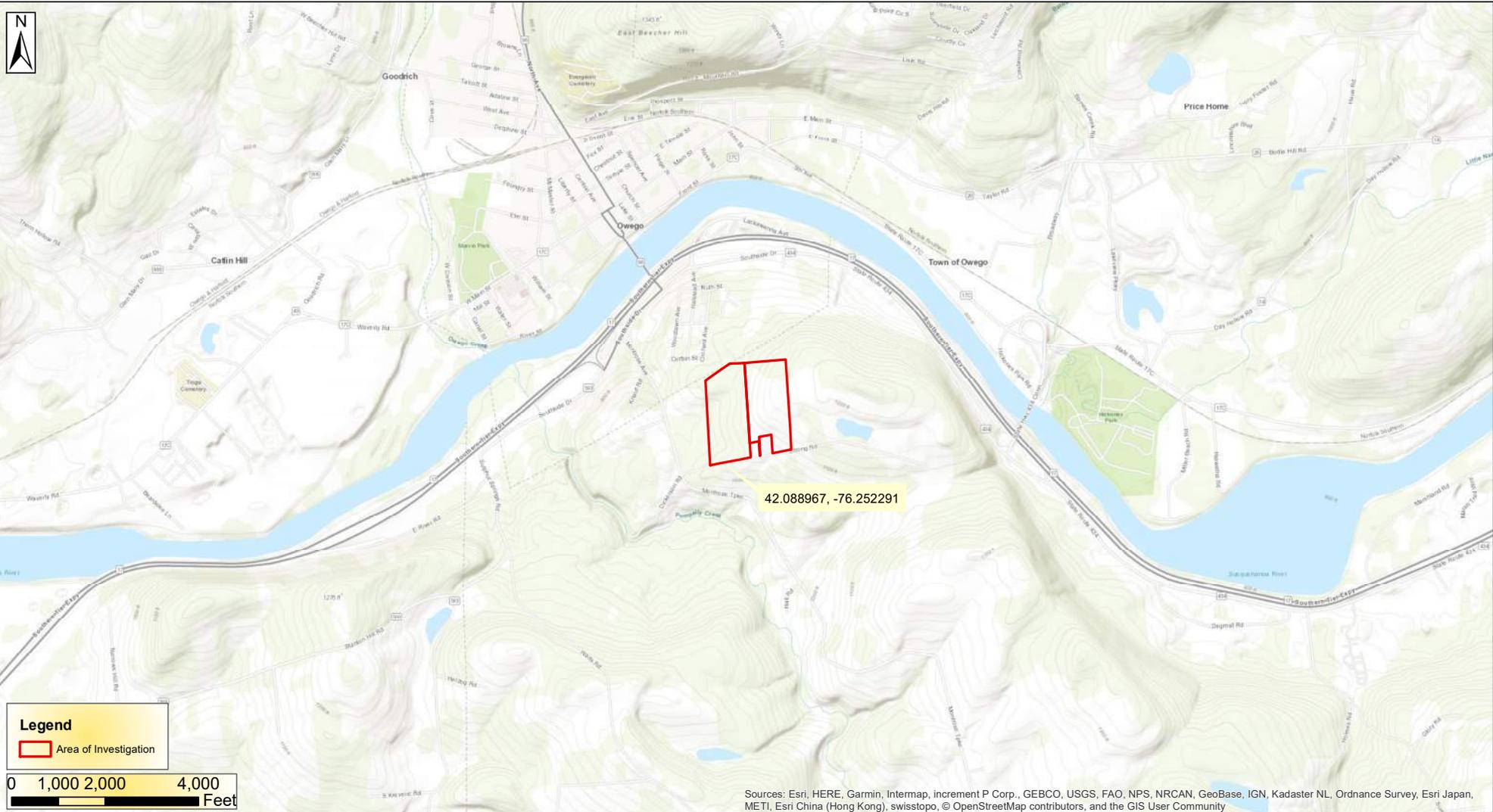


7.0 REFERENCES

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- Environmental Laboratory, 1987, U.S. Army Corps of Engineers Wetland Delineation Manual, Technical Report 4-87-1, U.S. Army Engineer Waterway Experiment Station, Vicksburg, Mississippi.
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- U.S. Army Corps of Engineers. 2012. *Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region*, ed. J.S. Wakeley, R.W. Lichvar, C.V. Noble, and J.F. Berkowitz. ERDC/EL TR-10-9. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

Appendix A

Project Location Map



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

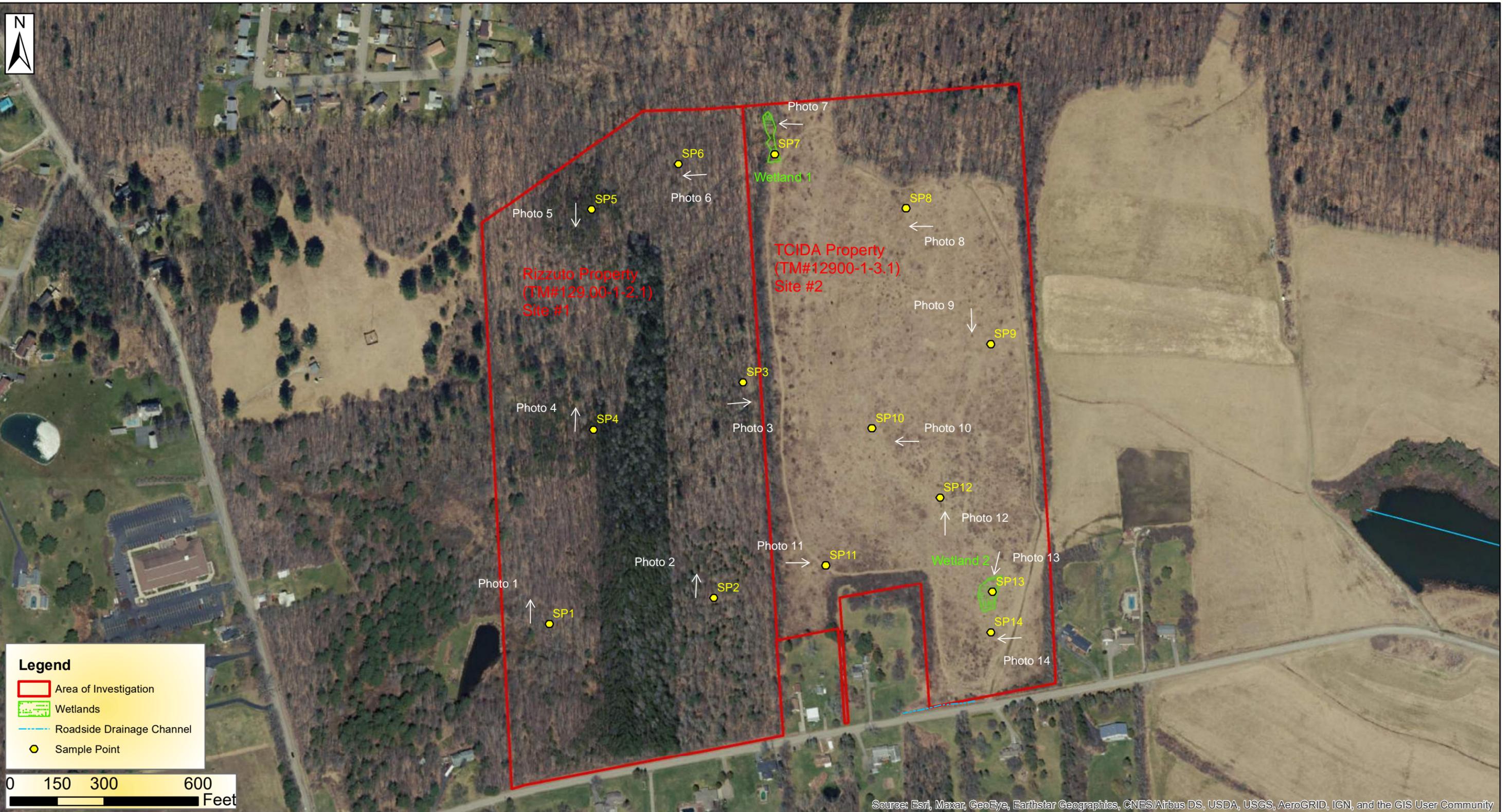
Tioga County Industrial Development Agency Project Location Map

Town of Owego, Tioga County, NY



Date	9/22/2021
Designer	JGR
Project No.	7557-006
Scale	1 inch = 2,000 feet

Delineation Map



Legend

- Area of Investigation
- Wetlands
- Roadside Drainage Channel
- Sample Point



Tioga County Industrial Development Agency Wetland Delineation Map

Town of Owego, Tioga County, NY

Date	9/21/2021
Designer	JGR
Project No.	7557-006
Scale	1 inch = 300 feet

Appendix C

NWI Map



September 9, 2021

Wetlands

- | | | |
|--------------------------------|-----------------------------------|----------|
| Estuarine and Marine Deepwater | Freshwater Emergent Wetland | Lake |
| Estuarine and Marine Wetland | Freshwater Forested/Shrub Wetland | Other |
| | Freshwater Pond | Riverine |

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Appendix D

Data Sheets

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: _____ City/County: _____ Sampling Date: _____

Applicant/Owner: _____ State: _____ Sampling Point: _____

Investigator(s): _____ Section, Township, Range: _____

Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____

Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No _____ Hydric Soil Present? Yes _____ No _____ Wetland Hydrology Present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes _____ No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

Sampling Point: _____

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	_____ = Total Cover			Prevalence Index worksheet: _____ Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	_____ = Total Cover			Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<u>Herb Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	_____ = Total Cover			Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
<u>Woody Vine Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	_____ = Total Cover			Hydrophytic Vegetation Present? Yes _____ No _____
Remarks: (Include photo numbers here or on a separate sheet.)				

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: _____ City/County: _____ Sampling Date: _____

Applicant/Owner: _____ State: _____ Sampling Point: _____

Investigator(s): _____ Section, Township, Range: _____

Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____

Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No _____ Hydric Soil Present? Yes _____ No _____ Wetland Hydrology Present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes _____ No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

Sampling Point: _____

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ = Total Cover				Prevalence Index worksheet: _____ Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ = Total Cover				Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<u>Herb Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
_____ = Total Cover				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
<u>Woody Vine Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				Hydrophytic Vegetation Present? Yes _____ No _____
Remarks: (Include photo numbers here or on a separate sheet.)				

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: _____ City/County: _____ Sampling Date: _____

Applicant/Owner: _____ State: _____ Sampling Point: _____

Investigator(s): _____ Section, Township, Range: _____

Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____

Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No _____ Hydric Soil Present? Yes _____ No _____ Wetland Hydrology Present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes _____ No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

Sampling Point: _____

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ = Total Cover				Prevalence Index worksheet: _____ Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ = Total Cover				Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<u>Herb Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
_____ = Total Cover				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
<u>Woody Vine Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				Hydrophytic Vegetation Present? Yes _____ No _____
Remarks: (Include photo numbers here or on a separate sheet.)				

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: _____ City/County: _____ Sampling Date: _____

Applicant/Owner: _____ State: _____ Sampling Point: _____

Investigator(s): _____ Section, Township, Range: _____

Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____

Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No _____ Hydric Soil Present? Yes _____ No _____ Wetland Hydrology Present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes _____ No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	<u>Secondary Indicators (minimum of two required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

Sampling Point: _____

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	_____ = Total Cover			Prevalence Index worksheet: _____ Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	_____ = Total Cover			Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<u>Herb Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	_____ = Total Cover			Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
<u>Woody Vine Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	_____ = Total Cover			Hydrophytic Vegetation Present? Yes _____ No _____
Remarks: (Include photo numbers here or on a separate sheet.)				

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: _____ City/County: _____ Sampling Date: _____

Applicant/Owner: _____ State: _____ Sampling Point: _____

Investigator(s): _____ Section, Township, Range: _____

Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____

Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No _____ Hydric Soil Present? Yes _____ No _____ Wetland Hydrology Present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes _____ No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

Sampling Point: _____

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ = Total Cover				Prevalence Index worksheet: _____ Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ = Total Cover				Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<u>Herb Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
_____ = Total Cover				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
<u>Woody Vine Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				Hydrophytic Vegetation Present? Yes _____ No _____
Remarks: (Include photo numbers here or on a separate sheet.)				

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: _____ City/County: _____ Sampling Date: _____

Applicant/Owner: _____ State: _____ Sampling Point: _____

Investigator(s): _____ Section, Township, Range: _____

Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____

Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No _____ Hydric Soil Present? Yes _____ No _____ Wetland Hydrology Present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes _____ No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

Sampling Point: _____

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ = Total Cover				Prevalence Index worksheet: _____ Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ = Total Cover				
<u>Herb Stratum</u> (Plot size: _____)				Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
_____ = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: _____)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				
Hydrophytic Vegetation Present? Yes _____ No _____				
Remarks: (Include photo numbers here or on a separate sheet.)				

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: _____ City/County: _____ Sampling Date: _____

Applicant/Owner: _____ State: _____ Sampling Point: _____

Investigator(s): _____ Section, Township, Range: _____

Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____

Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No _____ Hydric Soil Present? Yes _____ No _____ Wetland Hydrology Present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes _____ No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	<u>Secondary Indicators (minimum of two required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

Sampling Point: _____

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ = Total Cover				Prevalence Index worksheet: _____ Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ = Total Cover				
<u>Herb Stratum</u> (Plot size: _____)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
_____ = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: _____)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				
Hydrophytic Vegetation Present? Yes _____ No _____				
Remarks: (Include photo numbers here or on a separate sheet.)				

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: _____ City/County: _____ Sampling Date: _____

Applicant/Owner: _____ State: _____ Sampling Point: _____

Investigator(s): _____ Section, Township, Range: _____

Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____

Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No _____ Hydric Soil Present? Yes _____ No _____ Wetland Hydrology Present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes _____ No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	<u>Secondary Indicators (minimum of two required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

Sampling Point: _____

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ = Total Cover				Prevalence Index worksheet: _____ Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ = Total Cover				
<u>Herb Stratum</u> (Plot size: _____)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is $\leq 3.0^1$ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
_____ = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: _____)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				
Hydrophytic Vegetation Present? Yes _____ No _____				
Remarks: (Include photo numbers here or on a separate sheet.)				

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: _____ City/County: _____ Sampling Date: _____

Applicant/Owner: _____ State: _____ Sampling Point: _____

Investigator(s): _____ Section, Township, Range: _____

Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____

Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No _____ Hydric Soil Present? Yes _____ No _____ Wetland Hydrology Present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes _____ No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	<u>Secondary Indicators (minimum of two required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

Sampling Point: _____

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	_____ = Total Cover			Prevalence Index worksheet: _____ Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	_____ = Total Cover			Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<u>Herb Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	_____ = Total Cover			Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
<u>Woody Vine Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	_____ = Total Cover			Hydrophytic Vegetation Present? Yes _____ No _____
Remarks: (Include photo numbers here or on a separate sheet.)				

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: _____ City/County: _____ Sampling Date: _____

Applicant/Owner: _____ State: _____ Sampling Point: _____

Investigator(s): _____ Section, Township, Range: _____

Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____

Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No _____ Hydric Soil Present? Yes _____ No _____ Wetland Hydrology Present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes _____ No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	<u>Secondary Indicators (minimum of two required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

Sampling Point: _____

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ = Total Cover				Prevalence Index worksheet: _____ Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ = Total Cover				
<u>Herb Stratum</u> (Plot size: _____)				Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
_____ = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: _____)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				
Hydrophytic Vegetation Present? Yes _____ No _____				
Remarks: (Include photo numbers here or on a separate sheet.)				

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: _____ City/County: _____ Sampling Date: _____

Applicant/Owner: _____ State: _____ Sampling Point: _____

Investigator(s): _____ Section, Township, Range: _____

Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____

Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No _____ Hydric Soil Present? Yes _____ No _____ Wetland Hydrology Present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes _____ No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

Sampling Point: _____

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ = Total Cover				Prevalence Index worksheet: _____ Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ = Total Cover				
Herb Stratum (Plot size: _____)				Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
_____ = Total Cover				
Woody Vine Stratum (Plot size: _____)				Hydrophytic Vegetation Present? Yes _____ No _____
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.)				

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: _____ City/County: _____ Sampling Date: _____

Applicant/Owner: _____ State: _____ Sampling Point: _____

Investigator(s): _____ Section, Township, Range: _____

Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____

Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No _____ Hydric Soil Present? Yes _____ No _____ Wetland Hydrology Present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes _____ No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

Sampling Point: _____

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	_____ = Total Cover			Prevalence Index worksheet: _____ Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	_____ = Total Cover			Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<u>Herb Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	_____ = Total Cover			Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
<u>Woody Vine Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	_____ = Total Cover			Hydrophytic Vegetation Present? Yes _____ No _____
Remarks: (Include photo numbers here or on a separate sheet.)				

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: _____ City/County: _____ Sampling Date: _____

Applicant/Owner: _____ State: _____ Sampling Point: _____

Investigator(s): _____ Section, Township, Range: _____

Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____

Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No _____ Hydric Soil Present? Yes _____ No _____ Wetland Hydrology Present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes _____ No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	<u>Secondary Indicators (minimum of two required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

Sampling Point: _____

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	_____ = Total Cover			Prevalence Index worksheet: _____ Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	_____ = Total Cover			Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<u>Herb Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	_____ = Total Cover			Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
<u>Woody Vine Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	_____ = Total Cover			Hydrophytic Vegetation Present? Yes _____ No _____
Remarks: (Include photo numbers here or on a separate sheet.)				

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: _____ City/County: _____ Sampling Date: _____

Applicant/Owner: _____ State: _____ Sampling Point: _____

Investigator(s): _____ Section, Township, Range: _____

Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____

Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No _____ Hydric Soil Present? Yes _____ No _____ Wetland Hydrology Present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes _____ No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	<u>Secondary Indicators (minimum of two required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

Sampling Point: _____

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	_____ = Total Cover			Prevalence Index worksheet: _____ Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	_____ = Total Cover			Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<u>Herb Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	_____ = Total Cover			Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
<u>Woody Vine Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	_____ = Total Cover			Hydrophytic Vegetation Present? Yes _____ No _____
Remarks: (Include photo numbers here or on a separate sheet.)				

Appendix E

Photo Log



Tioga County Industrial Development Agency – Strong Road Parcels

Town of Owego – Tioga County – New York

LDG Project No. 7557-006

PHOTO #: 1	
DATE: 08/25/21	
DIRECTION: North	
PHOTO DESCRIPTION: Looking in a northern direction from SP1.	

PHOTO #: 2	
DATE: 08/25/21	
DIRECTION: North	
PHOTO DESCRIPTION: Looking in a northern direction from SP2.	



PHOTO #: 3	
DATE: 08/25/21	
DIRECTION: East	
PHOTO DESCRIPTION: Looking in an eastern direction from SP3.	

PHOTO #: 4	
DATE: 08/25/21	
DIRECTION: North	
PHOTO DESCRIPTION: Looking in a northern direction from SP4.	



PHOTO #: 5	
DATE: 08/25/21	
DIRECTION: South	
PHOTO DESCRIPTION: Looking in a southern direction from SP5.	

PHOTO #: 6	
DATE: 08/25/21	
DIRECTION: West	
PHOTO DESCRIPTION: Looking in a western direction from SP6.	



PHOTO #: 7	
DATE: 08/25/21	
DIRECTION: West	
PHOTO DESCRIPTION: Looking in a western direction towards Wetland 1.	

PHOTO #: 8	
DATE: 08/25/21	
DIRECTION: East	
PHOTO DESCRIPTION: Looking in an eastern direction towards SP8.	



PHOTO #: 9	
DATE: 08/25/21	
DIRECTION: South	
PHOTO DESCRIPTION: Looking in a southern direction towards SP9.	

PHOTO #: 10	
DATE: 08/25/21	
DIRECTION: West	
PHOTO DESCRIPTION: Looking in a western direction towards SP10.	



PHOTO #: 11	
DATE: 08/25/21	
DIRECTION: East	
PHOTO DESCRIPTION: Looking in an eastern direction towards SP11.	

PHOTO #: 12	
DATE: 08/25/21	
DIRECTION: North	
PHOTO DESCRIPTION: Looking in a northern direction from SP12.	



PHOTO #: 13	
DATE: 08/25/21	
DIRECTION: South	
PHOTO DESCRIPTION: Looking in a southern direction from Wetland 2.	

PHOTO #: 14	
DATE: 08/25/21	
DIRECTION: West	
PHOTO DESCRIPTION: Looking in a western direction towards SP14.	

Appendix F

Soils Report



United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for Tioga County, New York

Tioga County Industrial
Development Agency



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

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scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

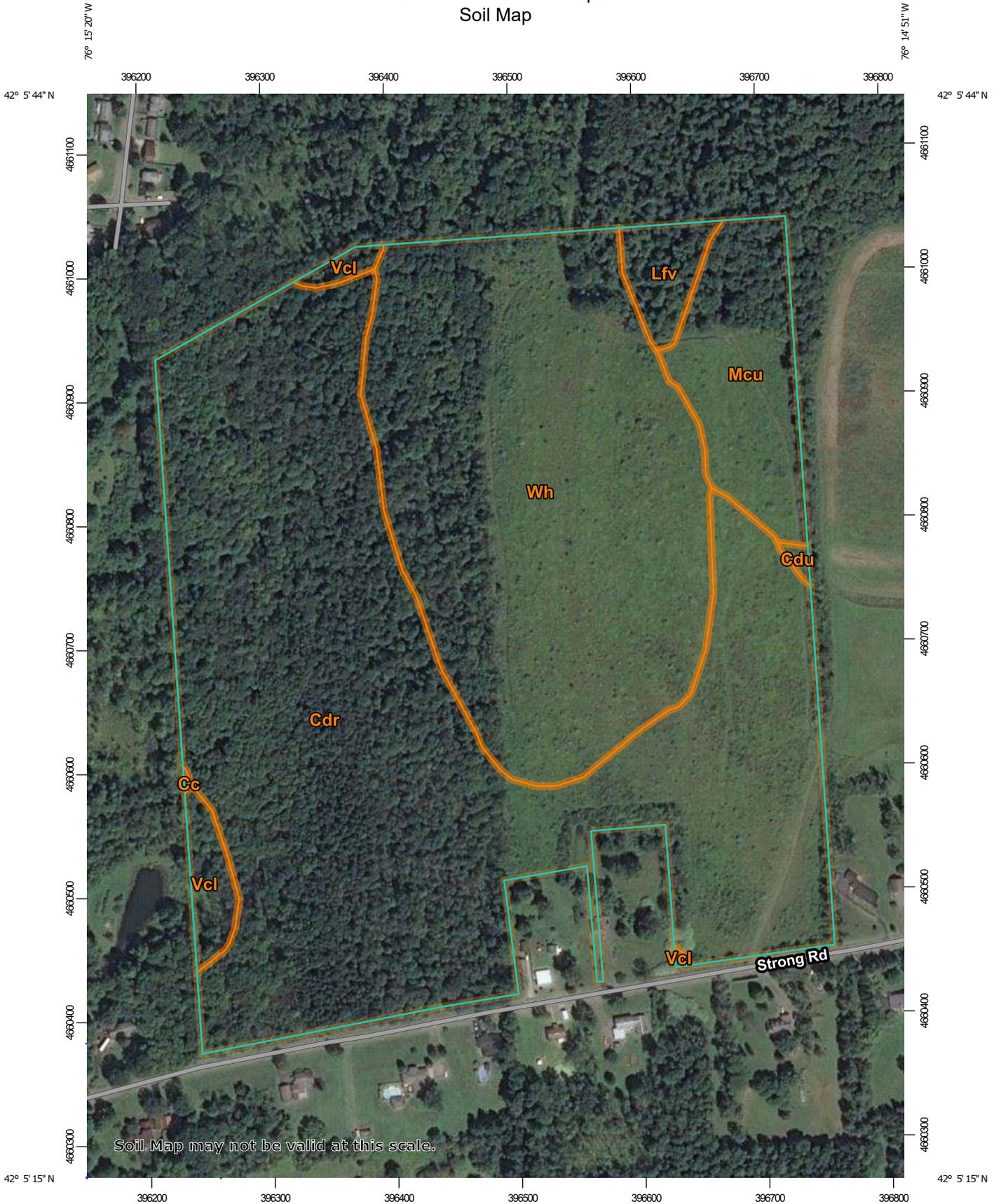
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identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

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MAP LEGEND

- Area of Interest (AOI)**
 -  Area of Interest (AOI)
- Soils**
 -  Soil Map Unit Polygons
 -  Soil Map Unit Lines
 -  Soil Map Unit Points
- Special Point Features**
 -  Blowout
 -  Borrow Pit
 -  Clay Spot
 -  Closed Depression
 -  Gravel Pit
 -  Gravelly Spot
 -  Landfill
 -  Lava Flow
 -  Marsh or swamp
 -  Mine or Quarry
 -  Miscellaneous Water
 -  Perennial Water
 -  Rock Outcrop
 -  Saline Spot
 -  Sandy Spot
 -  Severely Eroded Spot
 -  Sinkhole
 -  Slide or Slip
 -  Sodic Spot
- Water Features**
 -  Streams and Canals
- Transportation**
 -  Rails
 -  Interstate Highways
 -  US Routes
 -  Major Roads
 -  Local Roads
- Background**
 -  Aerial Photography
- Other Features**
 -  Spoil Area
 -  Stony Spot
 -  Very Stony Spot
 -  Wet Spot
 -  Other
 -  Special Line Features

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:31,700.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Tioga County, New York
 Survey Area Data: Version 17, Jun 11, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 28, 2019—Aug 26, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Cc	Chippewa channery silt loam, 0 to 8 percent slopes	0.0	0.0%
Cdr	Mardin-Volusia complex, 8 to 15 percent slopes	41.8	57.0%
Cdu	Mardin-Volusia complex, 0 to 8 percent slopes	0.1	0.2%
Lfv	Lordstown flaggy silt loam, 45 to 60 percent slopes	1.3	1.7%
Mcu	Mardin channery silt loam, 0 to 8 percent slopes	5.0	6.8%
Vcl	Volusia channery silt loam, 0 to 8 percent slopes	1.3	1.8%
Wh	Woostern gravelly silt loam, 16 to 25 percent slopes	23.9	32.6%
Totals for Area of Interest		73.5	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit

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descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Tioga County, New York

Cc—Chippewa channery silt loam, 0 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2vcjc

Elevation: 330 to 2,460 feet

Mean annual precipitation: 31 to 70 inches

Mean annual air temperature: 39 to 52 degrees F

Frost-free period: 105 to 180 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Chippewa and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Chippewa

Setting

Landform: Depressions

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Base slope

Down-slope shape: Concave

Across-slope shape: Concave

Parent material: Loamy till dominated by siltstone, sandstone, and shale fragments

Typical profile

Ap - 0 to 7 inches: channery silt loam

Eg - 7 to 15 inches: channery silt loam

Bxg - 15 to 45 inches: channery silt loam

C - 45 to 72 inches: channery silt loam

Properties and qualities

Slope: 0 to 8 percent

Surface area covered with cobbles, stones or boulders: 0.0 percent

Depth to restrictive feature: 8 to 20 inches to fragipan

Drainage class: Poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)

Depth to water table: About 0 to 6 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4w

Hydrologic Soil Group: D

Ecological site: F140XY016NY - Mineral Wetlands

Hydric soil rating: Yes

Minor Components

Volusia

Percent of map unit: 8 percent
Landform: Mountains, hills
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Interflue, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Chippewa, very poorly drained

Percent of map unit: 7 percent
Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

Cdr—Mardin-Volusia complex, 8 to 15 percent slopes

Map Unit Setting

National map unit symbol: 2wbng
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Mardin and similar soils: 55 percent
Volusia and similar soils: 35 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Mardin

Setting

Landform: Valley sides
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Interflue, side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy till derived from sedimentary rock

Typical profile

Ap - 0 to 8 inches: channery silt loam
Bw - 8 to 16 inches: channery silt loam
E - 16 to 20 inches: channery silt loam

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Bx - 20 to 57 inches: channery silt loam

C - 57 to 72 inches: channery silt loam

Properties and qualities

Slope: 8 to 15 percent

Surface area covered with cobbles, stones or boulders: 0.0 percent

Depth to restrictive feature: 14 to 26 inches to fragipan

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)

Depth to water table: About 13 to 24 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)

Available water supply, 0 to 60 inches: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: D

Hydric soil rating: No

Description of Volusia

Setting

Landform: Hills, mountains

Landform position (two-dimensional): Footslope

Landform position (three-dimensional): Interfluve, side slope

Down-slope shape: Concave

Across-slope shape: Linear

Parent material: Loamy till derived from interbedded sedimentary rock

Typical profile

Ap - 0 to 9 inches: channery silt loam

Bw - 9 to 15 inches: channery silt loam

Eg - 15 to 17 inches: channery silt loam

Bx1 - 17 to 29 inches: channery loam

Bx2 - 29 to 54 inches: channery loam

C - 54 to 72 inches: channery silt loam

Properties and qualities

Slope: 8 to 15 percent

Surface area covered with cobbles, stones or boulders: 0.0 percent

Depth to restrictive feature: 10 to 22 inches to fragipan

Drainage class: Somewhat poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)

Depth to water table: About 6 to 18 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Available water supply, 0 to 60 inches: Very low (about 3.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3e

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Hydrologic Soil Group: D
Ecological site: F140XY024NY - Moist Dense Till
Hydric soil rating: No

Minor Components

Bath

Percent of map unit: 5 percent
Landform: Hills, mountains
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Nose slope, side slope
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Chippewa

Percent of map unit: 3 percent
Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

Lordstown

Percent of map unit: 2 percent
Landform: Hills, mountains
Landform position (two-dimensional): Backslope, shoulder
Landform position (three-dimensional): Mountaintop, nose slope, crest
Down-slope shape: Convex
Across-slope shape: Linear
Hydric soil rating: No

Cdu—Mardin-Volusia complex, 0 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2wbnd
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Mardin and similar soils: 50 percent
Volusia and similar soils: 40 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Mardin

Setting

Landform: Valley sides
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy till derived from sedimentary rock

Typical profile

Ap - 0 to 8 inches: channery silt loam
Bw - 8 to 16 inches: channery silt loam
E - 16 to 20 inches: channery silt loam
Bx - 20 to 57 inches: channery silt loam
C - 57 to 72 inches: channery silt loam

Properties and qualities

Slope: 0 to 8 percent
Surface area covered with cobbles, stones or boulders: 0.0 percent
Depth to restrictive feature: 14 to 26 inches to fragipan
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 13 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2w
Hydrologic Soil Group: D
Hydric soil rating: No

Description of Volusia

Setting

Landform: Mountains, hills
Landform position (two-dimensional): Footslope, summit
Landform position (three-dimensional): Base slope, interfluve, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Loamy till derived from interbedded sedimentary rock

Typical profile

Ap - 0 to 9 inches: channery silt loam
Bw - 9 to 15 inches: channery silt loam
Eg - 15 to 17 inches: channery silt loam
Bx1 - 17 to 29 inches: channery loam
Bx2 - 29 to 54 inches: channery loam
C - 54 to 72 inches: channery silt loam

Properties and qualities

Slope: 0 to 8 percent

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Surface area covered with cobbles, stones or boulders: 0.0 percent
Depth to restrictive feature: 10 to 22 inches to fragipan
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 6 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Available water supply, 0 to 60 inches: Very low (about 3.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: D
Ecological site: F140XY024NY - Moist Dense Till
Hydric soil rating: No

Minor Components

Chippewa

Percent of map unit: 5 percent
Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

Bath

Percent of map unit: 5 percent
Landform: Hills, mountains
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Lfv—Lordstown flaggy silt loam, 45 to 60 percent slopes

Map Unit Setting

National map unit symbol: 2wzmx
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Lordstown and similar soils: 80 percent

Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Lordstown

Setting

Landform: Mountains, hills

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Mountainflank, side slope, nose slope

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Loamy till derived from sandstone and siltstone

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material

A - 1 to 5 inches: flaggy highly organic silt loam

Bw1 - 5 to 17 inches: flaggy silt loam

Bw2 - 17 to 26 inches: flaggy silt loam

C - 26 to 30 inches: very flaggy silt loam

2R - 30 to 40 inches: bedrock

Properties and qualities

Slope: 45 to 60 percent

Surface area covered with cobbles, stones or boulders: 0.1 percent

Depth to restrictive feature: 20 to 40 inches to lithic bedrock

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.14 to 1.42 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)

Available water supply, 0 to 60 inches: Low (about 5.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: C

Hydric soil rating: No

Minor Components

Cadosia, very stony

Percent of map unit: 10 percent

Landform: Ridges

Landform position (two-dimensional): Backslope, footslope

Landform position (three-dimensional): Side slope

Down-slope shape: Concave

Across-slope shape: Linear

Hydric soil rating: No

Arnot, extremely stony

Percent of map unit: 10 percent

Landform: Hills, mountains

Custom Soil Resource Report

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Free face, mountainflank, side slope, free face

Down-slope shape: Linear

Across-slope shape: Linear

Hydric soil rating: No

Rock outcrop

Percent of map unit: 0 percent

Hydric soil rating: No

Mcu—Mardin channery silt loam, 0 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2srh7

Elevation: 330 to 2,460 feet

Mean annual precipitation: 31 to 70 inches

Mean annual air temperature: 39 to 52 degrees F

Frost-free period: 105 to 180 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Mardin and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Mardin

Setting

Landform: Mountains, hills

Landform position (two-dimensional): Summit, shoulder

Landform position (three-dimensional): Interfluve, side slope

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Loamy till

Typical profile

Ap - 0 to 8 inches: channery silt loam

BE - 8 to 12 inches: channery silt loam

Bw1 - 12 to 16 inches: channery silt loam

Bw2 - 16 to 20 inches: channery silt loam

Bx1 - 20 to 36 inches: channery silt loam

Bx2 - 36 to 57 inches: channery silt loam

C - 57 to 72 inches: channery silt loam

Properties and qualities

Slope: 0 to 8 percent

Surface area covered with cobbles, stones or boulders: 0.0 percent

Depth to restrictive feature: 14 to 26 inches to fragipan

Drainage class: Moderately well drained

Custom Soil Resource Report

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)

Depth to water table: About 13 to 24 inches

Frequency of flooding: None

Frequency of ponding: None

Available water supply, 0 to 60 inches: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: D

Hydric soil rating: No

Minor Components

Volusia

Percent of map unit: 10 percent

Landform: Hills, mountains

Landform position (two-dimensional): Footslope, summit

Landform position (three-dimensional): Base slope, interfluvium, side slope

Down-slope shape: Concave

Across-slope shape: Linear

Hydric soil rating: No

Bath

Percent of map unit: 5 percent

Landform: Hills, mountains

Landform position (two-dimensional): Shoulder, backslope

Landform position (three-dimensional): Interfluvium, side slope

Down-slope shape: Concave

Across-slope shape: Linear

Hydric soil rating: No

Vcl—Volusia channery silt loam, 0 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2srff

Elevation: 330 to 2,460 feet

Mean annual precipitation: 31 to 70 inches

Mean annual air temperature: 39 to 52 degrees F

Frost-free period: 105 to 180 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Volusia and similar soils: 90 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Volusia

Setting

Landform: Hills, mountains
Landform position (two-dimensional): Footslope, summit
Landform position (three-dimensional): Base slope, interfluve, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Loamy till derived from interbedded sedimentary rock

Typical profile

Ap - 0 to 9 inches: channery silt loam
Bw - 9 to 15 inches: channery silt loam
Eg - 15 to 17 inches: channery silt loam
Bx1 - 17 to 29 inches: channery loam
Bx2 - 29 to 54 inches: channery loam
C - 54 to 72 inches: channery silt loam

Properties and qualities

Slope: 0 to 8 percent
Surface area covered with cobbles, stones or boulders: 0.0 percent
Depth to restrictive feature: 10 to 22 inches to fragipan
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 6 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Available water supply, 0 to 60 inches: Very low (about 3.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: D
Ecological site: F140XY024NY - Moist Dense Till
Hydric soil rating: No

Minor Components

Mardin

Percent of map unit: 5 percent
Landform: Mountains, hills
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

Chippewa

Percent of map unit: 5 percent
Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave

Hydric soil rating: Yes

Wh—Woostern gravelly silt loam, 16 to 25 percent slopes

Map Unit Setting

National map unit symbol: 9xvq
Elevation: 600 to 1,750 feet
Mean annual precipitation: 35 to 38 inches
Mean annual air temperature: 43 to 48 degrees F
Frost-free period: 100 to 170 days
Farmland classification: Not prime farmland

Map Unit Composition

Valois and similar soils: 75 percent
Minor components: 25 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Valois

Setting

Landform: End moraines, valley sides, lateral moraines
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy till derived mainly from sandstone, siltstone, and shale

Typical profile

H1 - 0 to 8 inches: gravelly silt loam
H2 - 8 to 30 inches: gravelly silt loam
H3 - 30 to 60 inches: gravelly silt loam

Properties and qualities

Slope: 16 to 25 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 2 percent
Available water supply, 0 to 60 inches: Low (about 5.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: B
Hydric soil rating: No

Minor Components

Bath

Percent of map unit: 5 percent
Hydric soil rating: No

Mardin

Percent of map unit: 5 percent
Hydric soil rating: No

Lordstown

Percent of map unit: 5 percent
Hydric soil rating: No

Chenango

Percent of map unit: 5 percent
Hydric soil rating: No

Volusia

Percent of map unit: 5 percent
Hydric soil rating: No

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Custom Soil Resource Report

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DRAFT

Tioga County Industrial Development Agency
September 1, 2021 – 4:30 pm
Ronald E Dougherty County Office Building
56 Main Street, Owego, NY 13827
Hubbard Auditorium, 1st Floor
Agenda

I. Call to Order and Introductions- Ms. Ceccherelli called the meeting to order at 4:32 pm.

II. Attendance

IDA Board Members

Roll Call: J. Ceccherelli, K. Gillette, T. Monell, M. Sauerbrey, J. Ward, E. Knolles (attended via Zoom), A. Gowan (attended via Zoom)

Absent:

Excused:

Guests: C. Curtis, M. Griffiths, J. Meagher, L. Tinney

III. Privilege of the Floor: Jason Bellis, Larson Design Group

Mr. Bellis presented the board with maps showing the potential development at the nine-acre site on Buck Road in Lounsberry. Mr. Bellis’ design proposed a phased approach, starting with one building and then adding additional to the site incrementally. The design presented cost estimates, and showed a phased approach on how to extend utilities to the site. Moving forward, Ms. Tinney will reach out to the prospective developer and let them know that the IDA has reviewed this potential site plan and is interested in moving forward on developing this site. She will also get more information from the developer about the specific types of industry that are interested in occupying these buildings once built.

James Gensel, Fagan Engineers & Land Surveyors, PC

Mr. Gensel addressed the board regarding the Owego Gardens II water contracts. He explained the challenges surrounding the contract with Robinson, and the current activities that are occurring at the site. Mr. Gensel also reported that there are two change orders with Robinson’s Contract “A:” change order #2 in the amount of \$1,813, and change order #3 in the amount of \$7,459. Lastly, Mr. Gensel informed the board that there will be a change to the Suez credit that the IDA will receive. The original expected credit from Suez was approximately \$110,000, with the new expected credit being between \$260,000-\$270,000.

Motion to approve change order #2 in the amount of \$1, 813 and change order #3 in the amount of \$7,459 to the Robinson contract. (K. Gillette, M. Sauerbrey)

Aye-5 Abstain-0
No-0 Carried

IV. Approval of Minutes

A. August 4, 2021 Regular Meeting Minutes

Motion to approve August 4, 2021 Regular Board Meeting Minutes, as written. (J. Ward, K. Gillette)

Aye-5 Abstain-0
No-0 Carried

V. Financials

A. Balance Sheet



- B. Profit & Loss
- C. Transaction Detail

Motion to acknowledge financials, as presented. (J. Ward, T. Monell)

VI. ED&P Update: L. Tinney

Ms. Tinney updated the board on two items:

1. Ithaca Neighborhood Housing Services (INHS) project on Temple and Liberty Streets in the Village of Owego continues to move forward. The project will go to the County Planning Board, Village of Owego Planning Board and Village of Owego Zoning Board for review later this month.
2. Education Workforce Coordinator: Interviews for this position will be conducted tomorrow. Ms. Tinney also mentioned that they have submitted a resolution to the County Legislature this month to hire a part time employee.

VII. Project Updates: L. Tinney & C. Curtis

A. Owego Gardens II

1. Updated Project Cost Spreadsheet

Ms. Curtis reported that she has updated the spreadsheet to reflect the change orders discussed earlier in the meeting by Mr. Gensel, and the increase to the Suez credit as discussed earlier.

VIII. Committee Reports: C. Curtis

A. Public Authority Accountability Act (PAAA)

1. Audit Committee Report: A. Gowan, E. Knolles, J. Ward
 - a. No report
2. Governance Committee: J. Ceccherelli, A. Gowan, E. Knolles
 - a. Annual Employee Review
3. Finance Committee: J. Ceccherelli, A. Gowan, J. Ward
 - a. No report
4. Loan Committee: S. Thomas, A. Gowan, R. Kelsey, K. Dougherty, D. Barton, J. Ward, E. Knolles
 - a. No report
5. Railroad Committee: M. Sauerbrey, K. Gillette, T. Monell
 - a. No report

IX. PILOT Updates: C. Curtis

A. Sales Tax Exemptions Update:

1. Owego Gardens II – Home Leasing - \$29,633.49/Authorized \$524,194
2. RB Robinson - \$4,605.77/Authorized \$55,990

B. School & Village PILOT invoices distributed

X. Grant Updates: C. Curtis

A. Monkey Run FEMA Application – Approved – Total Project Cost \$28,316.26; Awarded Federal Share \$21,237.20; Awarded State Share \$3,539.53; TCIDA Match \$3,539.53

1. JB's Excavation completed project

B. New York State Division of Homeland Security and Emergency Services (DHSES) DR-4567



Planning Grant – Richford Railroad

- 1. Application in progress

XI. Motion to move into Executive Session pursuant to Public Officers Law Section 105 at 5:32 pm to discuss financial matters, property acquisitions, and personal matters. (K. Gillette, T. Monell) Motion to adjourn Executive Session at 5:45 pm.

Motion to approve raise for C. Curtis, raising her salary 5% to \$51, 030 per year. (K. Gillette, M. Sauerbrey)

Aye-5 Abstain-0
No-0 Carried

Motion to approve continuation of L. Tinney’s contractual agreement with the IDA, and continue to pay monthly stipend in the amount of \$2,125 per month. (T. Monell, J. Ward)

Aye-5 Abstain-0
No-0 Carried

XII. Next Meeting: Wednesday October 6, 2021

XIII. Adjournment-Mr. Gowan motioned to adjourn the meeting at 5:48 pm.



ECONOMIC DEVELOPMENT & PLANNING | INDUSTRIAL DEVELOPMENT AGENCY | LOCAL DEVELOPMENT CORPORATION

Tioga County IDA
Loan Committee Phone Conference Meeting
September 30, 2021 – 10 am
Agenda

Members: S. Thomas, R. Kelsey, K. Dougherty, D. Barton, A. Gowan, J. Ward, E. Knolles
Present: R, Kelsey, K. Dougherty, A. Gowan, J. Ward, E. Knolles
Guests: C. Curtis

Meeting called to order at 10:05

New Business

A. TCIDA Commercial Facade Loan Program Application

1. Buffie Arhbal – Independent State Farm Agent - 444 Front St, Owego
Recommend approval contingent on proof of payment of personal equity injection in the amount of \$34,000. Proof of payment must be provided before IDA loan closing and fund disbursement.

Aye – 4 Abstain – 1
No – 0 Carried.

Meeting adjourned at 9:25

Tioga County Industrial Development Agency

Balance Sheet

As of September 30, 2021

	Sep 30, 21	Sep 30, 20	\$ Change
ASSETS			
Current Assets			
Checking/Savings			
Restricted Cash Accounts			
COVID-19	316,463.39	305,035.00	11,428.39
Community- Facade Improvement	183,758.34	139,327.02	44,431.32
CCTC- Industrial Park	9,706.03	11,795.37	-2,089.34
USDA Funds			
CCTC- Loan Loss Reserve	40,475.38	40,460.20	15.18
TSB- IRP 2016 (Formerly IRP 4)	113,628.47	124,228.50	-10,600.03
TSB- RBEG	147,493.89	127,748.26	19,745.63
TSB- marketing	1,115.88	1,365.67	-249.79
Total USDA Funds	<u>302,713.62</u>	<u>293,802.63</u>	<u>8,910.99</u>
Total Restricted Cash Accounts	<u>812,641.38</u>	<u>749,960.02</u>	<u>62,681.36</u>
CCTC- CDs			
Site Development			
Site Development 2441	100,000.00	0.00	100,000.00
Site Development 2440	100,000.00	0.00	100,000.00
Site Development 2439	100,000.00	0.00	100,000.00
Total Site Development	<u>300,000.00</u>	<u>0.00</u>	<u>300,000.00</u>
Land Acquisition (879)	545,414.33	540,715.81	4,698.52
Capital Improvement (284)	318,847.13	318,847.13	0.00
Total CCTC- CDs	<u>1,164,261.46</u>	<u>859,562.94</u>	<u>304,698.52</u>
Temporarily Restricted Cash Acc			
TSB-Owego Gardens	3,800,578.24	112,712.35	3,687,865.89
TSB-Crown Cork and Seal	300,105.67	300,105.67	0.00
Community- BestBuy PILOT Acct.	570,369.98	570,357.72	12.26
Total Temporarily Restricted Cash Acc	<u>4,671,053.89</u>	<u>983,175.74</u>	<u>3,687,878.15</u>
Unrestricted Cash Accounts			
TSB ICS	1,564,847.49	1,862,918.23	-298,070.74
TSB- checking	90,375.85	3,799.77	86,576.08
TSB- general fund	125,726.13	125,688.51	37.62
Total Unrestricted Cash Accounts	<u>1,780,949.47</u>	<u>1,992,406.51</u>	<u>-211,457.04</u>
Total Checking/Savings	<u>8,428,906.20</u>	<u>4,585,105.21</u>	<u>3,843,800.99</u>
Other Current Assets			
COVID-19 ERLP			
C-7-A	19,881.84	25,000.00	-5,118.16
C-6-A	0.00	60,000.00	-60,000.00
C-5-A	7,194.48	10,000.00	-2,805.52
C-4-A	7,023.58	10,000.00	-2,976.42
C-3-A	0.00	25,000.00	-25,000.00
C-2-A	10,226.51	15,000.00	-4,773.49
C-1-A	18,137.86	25,000.00	-6,862.14
Total COVID-19 ERLP	<u>62,464.27</u>	<u>170,000.00</u>	<u>-107,535.73</u>
Accounts Receivable 1300.01	168,453.05	395,041.19	-226,588.14
Allowance for Doubtful Accounts	-35,000.00	-35,000.00	0.00
Commercial Facade Loan Program			
Loan Rec - 2017-01-C	21,250.00	28,750.00	-7,500.00
Loan Rec - 2018-03-C	10,937.50	14,687.50	-3,750.00
Loan Rec - 2018-01-C	3,420.02	5,220.02	-1,800.00
Loan Rec - 2017-03-C	0.00	4,820.00	-4,820.00
Loan Rec - 2017-02-C	14,599.93	21,088.69	-6,488.76
Loan Rec - 2016-03-C	3,828.36	7,110.12	-3,281.76
Loan Rec - 2016-02-C	6,944.72	14,583.56	-7,638.84
Loan Rec - 2016-01-C	0.00	-0.09	0.09
Loan Rec - 2015-06-C	2,560.96	6,951.28	-4,390.32
Loan Rec - 2014-01-C	0.00	-0.20	0.20
Loan Rec - 2015-05-C	1,501.71	5,392.74	-3,891.03
Total Commercial Facade Loan Program	<u>65,043.20</u>	<u>108,603.62</u>	<u>-43,560.42</u>
RBEG			
RBEG Loan Rec 2020-01	0.00	10,000.00	-10,000.00
Loan Rec - RBEG 2019 -06	64,675.58	71,655.82	-6,980.24
Total RBEG	<u>64,675.58</u>	<u>81,655.82</u>	<u>-16,980.24</u>
IRP 4			
Loan Rec 2021-02-A	15,111.49	0.00	15,111.49
Loan Rec 2021-01-A	77,642.68	0.00	77,642.68
Loan Rec 2019-07-A	37,733.13	39,558.42	-1,825.29
Loan Rec - 2019 - 06A	80,846.78	89,572.10	-8,725.32
Loan Rec 2018-02-A	5,569.98	7,271.65	-1,701.67
Loan Rec 2018-01-A	60,066.62	63,507.69	-3,441.07
Loan Rec 2017-05-A	3,817.53	8,710.72	-4,893.19
Loan Rec 2017-04-A	31,567.80	33,759.67	-2,191.87
Loan Rec 2017-03-A	0.00	13,793.62	-13,793.62
Loan Rec 2017-02-A	0.00	46,328.56	-46,328.56

Tioga County Industrial Development Agency

Balance Sheet

As of September 30, 2021

	Sep 30, 21	Sep 30, 20	\$ Change
Loan Rec 2017-01-A	15,120.63	17,589.06	-2,468.43
Loan Rec 2016-01-A	0.00	6,715.16	-6,715.16
Loan Rec 2009-02-A	49,451.58	50,251.58	-800.00
Total IRP 4	376,928.22	377,058.23	-130.01
IRP 3			
Loan Rec 2007-08-A	8,456.92	17,042.59	-8,585.67
Total IRP 3	8,456.92	17,042.59	-8,585.67
IRP 2			
Loan Rec 2011-03-A	6,439.04	18,845.08	-12,406.04
Total IRP 2	6,439.04	18,845.08	-12,406.04
Total Other Current Assets	717,460.28	1,133,246.53	-415,786.25
Total Current Assets	9,146,366.48	5,718,351.74	3,428,014.74
Fixed Assets			
Land- Mitchell	0.00	58,453.51	-58,453.51
Equipment			
2012 computer upgrade	0.00	1,436.88	-1,436.88
Equipment - Other	0.00	264.00	-264.00
Total Equipment	0.00	1,700.88	-1,700.88
Land- Cavataio	2,500.00	2,500.00	0.00
Land-general	601,257.05	601,257.05	0.00
Land-Louns			
Lopke	8,993.03	8,993.03	0.00
Town of Nichols	20,000.00	20,000.00	0.00
Berry	2,452.20	2,452.20	0.00
Hess	259,561.43	259,561.43	0.00
Land-Louns - Other	139,612.53	139,612.53	0.00
Total Land-Louns	430,619.19	430,619.19	0.00
Land 434	376,800.36	376,800.36	0.00
Railroad Improvements	1,979,330.50	1,979,330.50	0.00
Z Accumulated Depreciation	-1,216,347.46	-1,197,077.10	-19,270.36
Total Fixed Assets	2,174,159.64	2,253,584.39	-79,424.75
TOTAL ASSETS	11,320,526.12	7,971,936.13	3,348,589.99
LIABILITIES & EQUITY			
Liabilities			
Current Liabilities			
Other Current Liabilities			
Accrued Expenses	0.00	453.05	-453.05
PILOT Payments			
V&S New York Galvanizing	11,037.98	0.00	11,037.98
Spencer-Tioga Solar			
School	-45,284.51	0.00	-45,284.51
County	-26,526.09	0.00	-26,526.09
Town	-17,789.40	0.00	-17,789.40
Spencer-Tioga Solar - Other	180,992.00	89,600.00	91,392.00
Total Spencer-Tioga Solar	91,392.00	89,600.00	1,792.00
Gateway Owego, LLC			
Village	-505.41	0.00	-505.41
County	-323.33	0.00	-323.33
School	-744.23	0.00	-744.23
Town	-27.72	0.00	-27.72
Gateway Owego, LLC - Other	3,200.69	1,600.00	1,600.69
Total Gateway Owego, LLC	1,600.00	1,600.00	0.00
Midwestern Pet Foods, Inc.	23,686.37	0.00	23,686.37
Crown Cork and Seal			
School	-193,696.44	0.00	-193,696.44
County & Recycle	-89,725.36	0.00	-89,725.36
Town	-16,578.20	0.00	-16,578.20
Crown Cork and Seal - Other	600,000.00	300,000.00	300,000.00
Total Crown Cork and Seal	300,000.00	300,000.00	0.00
Nichols Cross Dock	100,973.95	0.00	100,973.95
Owego Gardens			
County & Recycle	-1,293.37	0.00	-1,293.37
Town	-110.90	0.00	-110.90
Village	-2,021.72	0.00	-2,021.72
School	-2,977.01	0.00	-2,977.01
Owego Gardens - Other	29,942.00	23,078.00	6,864.00
Total Owego Gardens	23,539.00	23,078.00	461.00
Tioga Downs Racetrack	283,579.04	0.00	283,579.04

Tioga County Industrial Development Agency

Balance Sheet

As of September 30, 2021

	Sep 30, 21	Sep 30, 20	\$ Change
CNYOG	3,264,738.55	0.00	3,264,738.55
Best Buy PP	570,000.00	570,000.00	0.00
Total PILOT Payments	4,670,546.89	984,278.00	3,686,268.89
Total Other Current Liabilities	4,670,546.89	984,731.05	3,685,815.84
Total Current Liabilities	4,670,546.89	984,731.05	3,685,815.84
Long Term Liabilities			
Tioga County COVID-19 ERLP	377,951.93	475,000.00	-97,048.07
Loan Pay- IRP 4	191,770.48	212,507.33	-20,736.85
Loan Pay- IRP 3	181,608.37	181,608.37	0.00
Loan Pay- IRP 2	101,111.91	112,327.63	-11,215.72
Loan Pay- IRP 1	46,180.14	53,900.28	-7,720.14
Total Long Term Liabilities	898,622.83	1,035,343.61	-136,720.78
Total Liabilities	5,569,169.72	2,020,074.66	3,549,095.06
Equity			
Board Designated Funds	1,406,302.63	1,406,302.63	0.00
1110 - Retained Earnings	4,724,944.51	4,740,191.06	-15,246.55
Net Income	-379,890.74	-194,632.22	-185,258.52
Total Equity	5,751,356.40	5,951,861.47	-200,505.07
TOTAL LIABILITIES & EQUITY	11,320,526.12	7,971,936.13	3,348,589.99

Tioga County Industrial Development Agency

Profit & Loss

10/04/21

January through September 2021

Accrual Basis

	Jan - Sep 21	Jan - Sep 20	\$ Change
Ordinary Income/Expense			
Income			
Bank Service Charge Refund	0.00	47.50	-47.50
Gain/Loss on Sale of Asset	-58,453.51	0.00	-58,453.51
Loan Interest Income			
COVID-19 C-7-A	335.19	0.00	335.19
COVID-19 C-5-A	162.26	0.00	162.26
COVID-19 C-1-A	354.95	0.00	354.95
COVID-19 C-2-A	230.57	0.00	230.57
COVID-19 C-4-A	157.18	0.00	157.18
IRP 4 - 2019 - 06A	2,535.51	2,792.96	-257.45
RBEG 2019 -06	2,028.41	2,232.49	-204.08
IRP 2			
2011-03-A	437.61	558.57	-120.96
Total IRP 2	437.61	558.57	-120.96
IRP 3			
2007-08-A	553.88	493.22	60.66
Total IRP 3	553.88	493.22	60.66
IRP 4			
2021-02-A	131.21	0.00	131.21
2021-01-A	659.32	0.00	659.32
2019-07-A	1,516.05	523.07	992.98
2018-02-A	209.92	127.57	82.35
2018-01-A	1,955.26	1,024.03	931.23
2017-04-A	975.84	516.31	459.53
2017-03-A	0.00	182.89	-182.89
2017-05-A	94.13	130.48	-36.35
2017-01-A	302.91	228.72	74.19
2017-02-A	482.31	998.98	-516.67
2016-01-A	66.88	386.06	-319.18
Total IRP 4	6,393.83	4,118.11	2,275.72
Total Loan Interest Income	13,189.39	10,195.35	2,994.04
Loan Program Fee			
COVID-19 ERLP	50.00	500.00	-450.00
Facade	100.00	100.00	0.00
IRP 4	1,261.25	0.00	1,261.25
Total Loan Program Fee	1,411.25	600.00	811.25
Loan Late Fee			
COVID-19 C-7-A	21.65	0.00	21.65
COVID-19 C-1-A	173.20	0.00	173.20
2016-02-C	104.16	104.15	0.01
RBEG 2019-16	0.00	48.60	-48.60
IRP 4 2019-06-A	0.00	60.74	-60.74
2018-02-A	5.00	0.00	5.00
2018-01-C	10.00	10.00	0.00
Loan Late Fee - Other	0.00	5.00	-5.00
Total Loan Late Fee	314.01	228.49	85.52
Loan Administrative Fee	1,034.24	295.04	739.20
4110 - Grants			
Broadband Study	65,397.00	0.00	65,397.00
Ag Value Chain	40,000.00	0.00	40,000.00
4110 - Grants - Other	263,948.26	232,500.00	31,448.26
Total 4110 - Grants	369,345.26	232,500.00	136,845.26
Interest Income-			
Interest Income- TSB ICS	1,224.86	7,051.17	-5,826.31

Tioga County Industrial Development Agency

Profit & Loss

10/04/21

January through September 2021

Accrual Basis

	Jan - Sep 21	Jan - Sep 20	\$ Change
Community- Facade Improvement	11.14	21.90	-10.76
CCTC Loan Loss Reserve Account	10.08	15.18	-5.10
Community- Lounsberry	0.00	87.18	-87.18
TSB- checking	112.61	127.21	-14.60
TSB-general fund	32.39	69.13	-36.74
TSB- IRP 4	18.84	28.56	-9.72
TSB- RBEG	19.13	25.46	-6.33
TSB- marketing	0.15	0.29	-0.14
Total Interest Income-	1,429.20	7,426.08	-5,996.88
Leases/Licenses	13,509.36	12,813.40	695.96
4150 · Miscellaneous Income	0.00	0.00	0.00
OHRy freight	155,594.36	70,125.25	85,469.11
Total OHRy	155,594.36	70,125.25	85,469.11
4170 · PILOT Program Fees			
Ithaca Neighborhood Housing Ser	2,500.00	0.00	2,500.00
Tioga Downs	0.00	0.00	0.00
4170 · PILOT Program Fees - Other	2,500.00	0.00	2,500.00
Total 4170 · PILOT Program Fees	5,000.00	0.00	5,000.00
Sale of Property	3,800.00	1,000.00	2,800.00
Total Income	506,173.56	335,231.11	170,942.45
Expense			
Grant Expense			
Ag Value Chain	30,000.00	8,745.00	21,255.00
Grant Expense - Other	258,900.00	341,392.42	-82,492.42
Total Grant Expense	288,900.00	350,137.42	-61,237.42
Marketing	704.50	362.50	342.00
Tioga Industrial Park	0.00	200.00	-200.00
Education			
Curtis	599.00	530.00	69.00
Education - Other	99.00	0.00	99.00
Total Education	698.00	530.00	168.00
Loan Admin Fee			
IRP 4	1,034.24	990.93	43.31
Total Loan Admin Fee	1,034.24	990.93	43.31
Loan Program Expense			
COVID-19 ERLP	0.00	137.30	-137.30
Marketing	112.50	0.00	112.50
Loan Program Expense - Other	99.35	203.50	-104.15
Total Loan Program Expense	211.85	340.80	-128.95
6120 · Bank Service Charges			
Check order			
TSB IRP 4	0.00	15.00	-15.00
TSB RBEG	0.00	25.00	-25.00
Total Check order	0.00	40.00	-40.00
6120 · Bank Service Charges - Other	35.00	68.50	-33.50
Total 6120 · Bank Service Charges	35.00	108.50	-73.50
6160 · Dues and Subscriptions	1,809.00	1,060.00	749.00
Employee benefit			

Tioga County Industrial Development Agency

Profit & Loss

10/04/21

January through September 2021

Accrual Basis

	Jan - Sep 21	Jan - Sep 20	\$ Change
IRA Company Match	1,080.00	1,038.40	41.60
Total Employee benefit	1,080.00	1,038.40	41.60
6180 · Insurance			
WC (Utica)	381.00	622.00	-241.00
Travel/Accident (Hartford)	750.00	750.00	0.00
D & O (Philadelphia Ins. Co)	4,201.00	4,203.00	-2.00
6190 · Disability (First Rehab Life)	357.83	243.27	114.56
Employee Health (SSA)	4,232.75	4,133.31	99.44
6185 · Property & Liability (Dryden)	10,947.28	10,678.20	269.08
RR Liability (Steadfast)	26,648.14	25,529.80	1,118.34
Total 6180 · Insurance	47,518.00	46,159.58	1,358.42
6200 · Interest Expense			
6205 · Loan Int Exp Covid	816.66	0.00	816.66
6200 · Interest Expense - Other	5,603.43	5,996.23	-392.80
Total 6200 · Interest Expense	6,420.09	5,996.23	423.86
6240 · Miscellaneous	199.12	0.00	199.12
6560 · Payroll Expenses			
Payroll Expenses - HSA	2,700.00	1,350.00	1,350.00
6560 · Payroll Expenses - Other	36,494.87	35,925.28	569.59
Total 6560 · Payroll Expenses	39,194.87	37,275.28	1,919.59
6250 · Postage and Delivery	0.00	27.45	-27.45
6270 · Professional Fees			
Bizilife LLC	2,750.00	0.00	2,750.00
Ag Ec Dev Specialist Position	15,000.00	15,000.00	0.00
Administrative Services			
Tinney, M	0.00	1,800.00	-1,800.00
Haskell	0.00	6,975.00	-6,975.00
Tinney	19,125.00	19,125.00	0.00
Total Administrative Services	19,125.00	27,900.00	-8,775.00
6650 · Accounting			
Jan Nolis	1,340.00	2,190.00	-850.00
6650 · Accounting - Other	7,300.00	7,000.00	300.00
Total 6650 · Accounting	8,640.00	9,190.00	-550.00
6280 · Legal Fees			
Loan Program Fees	83.89	0.00	83.89
6280 · Legal Fees - Other	27,774.52	21,922.45	5,852.07
Total 6280 · Legal Fees	27,858.41	21,922.45	5,935.96
Total 6270 · Professional Fees	73,373.41	74,012.45	-639.04
6670 · Program Expense			
Water Tower	422,868.96	8,640.79	414,228.17
Total 6670 · Program Expense	422,868.96	8,640.79	414,228.17
Property Taxes			
Stanton Hill 9.64A Town Lot	226.20	234.97	-8.77
96 · Smith Creek Rd	27.96	256.00	-228.04
540 · Stanton Hill	171.19	177.83	-6.64
Spring St	0.26	0.26	0.00
Berry Road (47)	144.26	149.85	-5.59
Carmichael Road	4.47	4.43	0.04
Smith Creek Road	23.97	24.90	-0.93
Glenmary Drive	10.74	10.49	0.25
Metro Road	8.95	8.74	0.21

Tioga County Industrial Development Agency

Profit & Loss

10/04/21

January through September 2021

Accrual Basis

	Jan - Sep 21	Jan - Sep 20	\$ Change
Total Property Taxes	618.00	867.47	-249.47
Recording fees	385.50	0.00	385.50
6770 · Supplies	792.94	637.01	155.93
6350 · Travel & Ent			
6380 · Travel	109.45	0.00	109.45
6350 · Travel & Ent - Other	145.52	1,513.52	-1,368.00
Total 6350 · Travel & Ent	254.97	1,513.52	-1,258.55
Total Expense	886,098.45	529,898.33	356,200.12
Net Ordinary Income	-379,924.89	-194,667.22	-185,257.67
Other Income/Expense			
Other Income			
Interest Income - TSB COVID19	34.15	35.00	-0.85
Total Other Income	34.15	35.00	-0.85
Net Other Income	34.15	35.00	-0.85
Net Income	-379,890.74	-194,632.22	-185,258.52

**Tioga County Industrial Development Agency
Transaction Detail**

September 2021

Type	Date	Num	Name	Memo	Amount
Restricted Cash Accounts					
COVID-19					
Deposit	09/02/2021			Loan pmts	1,182.92
Deposit	09/07/2021			Loan pmt	300.00
Deposit	09/13/2021			Loan Pmts	1,088.61
Total COVID-19					2,571.53
Community- Facade Improvement					
Deposit	09/02/2021			Loan pmts	977.67
Deposit	09/03/2021			Loan pmt	625.00
Deposit	09/07/2021			Loan pmt	540.73
Deposit	09/15/2021			Loan Pmts	423.48
Deposit	09/30/2021			Loan Pmt	299.31
Total Community- Facade Improvement					2,866.19
USDA Funds					
TSB- IRP 2016 (Formerly IRP 4)					
Deposit	09/01/2021			Loan pmt	306.00
Deposit	09/02/2021			Loan pmts	881.35
Deposit	09/03/2021			Loan pmt	321.55
Deposit	09/07/2021			Loan pmts	1,508.88
Deposit	09/13/2021			Loan pmts	1,252.45
Deposit	09/24/2021			Loan Pmt	572.36
Deposit	09/30/2021			Loan pmts	881.35
Total TSB- IRP 2016 (Formerly IRP 4)					5,723.94
TSB- RBEG					
Deposit	09/13/2021			Loan pmts	809.96
Total TSB- RBEG					809.96
Total USDA Funds					6,533.90
Total Restricted Cash Accounts					11,971.62
Temporarily Restricted Cash Acc					
TSB-Owego Gardens					
Deposit	09/15/2021			Midwestern School PILOT 2021	23,686.37
Deposit	09/20/2021			Tioga Downs School & Village PILOT 2021	283,579.04
Deposit	09/24/2021			V&S School PILOT 2021	11,037.98
Deposit	09/27/2021			2021 School PILOT Crestwood/Stagcoach/CNYOG	3,264,738.55
Deposit	09/30/2021			FedEx School PILOT 2021	100,973.95
Total TSB-Owego Gardens					3,684,015.89
Total Temporarily Restricted Cash Acc					3,684,015.89
Unrestricted Cash Accounts					
TSB- checking					
Check	09/01/2021	6735	Christine E Curtis	Pay Period: 8/15/21-8/28/21	-1,362.82
Deposit	09/02/2021			2021 Lease Plexicomm	207.06
Check	09/07/2021	X	NYS Division of the Treasury	Aug 2021 State Tax Deposit	-143.27
Check	09/07/2021	6737	Bizilife LLC	Aug social media	-500.00
Check	09/07/2021	6738	LeeAnn Tinney	Sep 2021 Professional Services	-2,125.00
Check	09/13/2021	6739	Thomas, Collison & Meagher	Services Aug 2021	-3,363.50
Check	09/13/2021	6740	Tioga County ED&P	3rd QTR Ag Dev Specialist Contribution Inv#Ag-3Q21	-5,000.00
Check	09/13/2021	6741	Christine Curtis	Mileage 5-11-21 to 9-7-21	-145.52
Check	09/13/2021	6742	Tioga County	Sep Verizon IT invoice 3971	-37.99
Deposit	09/13/2021			Facade Loan App Fee	100.00
Check	09/15/2021	X	EFTPS 941 Tax Payment	Aug 2021 Federal Tax Deposit	-817.16
Check	09/15/2021	6743	Christine E Curtis	Pay Period: 8/29/21-9/11/21	-1,362.84
Deposit	09/15/2021			RJ Corman July 2021 Pmt	14,427.63
Check	09/22/2021	6744	Tioga County ED&P	Ads - split cost	-241.00
Check	09/22/2021	6745	Christine Curtis	Reimburse Order # 21193	-56.22
Check	09/22/2021	6746	Excellus Health Plan	Oct 2021 Inv 29451883	-471.35
Check	09/27/2021	6747	Christine E Curtis	Pay Period: 9/12/21-9/25/21	-1,362.83
Check	09/27/2021	6748	Franklin Templeton	Sep 2021 Simple IRA - C. Curtis	-324.00
Check	09/27/2021	6749	Christine Curtis	Sep 2021 HSA	-300.00
Total TSB- checking					-2,878.81
Total Unrestricted Cash Accounts					-2,878.81
TOTAL					3,693,108.70

	Year	Amount	Comments
Grants Made Directly to VOO			
DRI	2018	4,283,551	VOO portion only
Evergreen Cemetery CLR	2019	8,000	
COPS Grant	2020	797,815	
OPD Station Rehab *	2021	468,416	pending grant application
Sub Total		5,557,782	

Grants Made to Businesses/Organizations			
NY Main Street (Parkview)	2016	500,000	County- sub to Parkview
RESTORE NY (Gateway)	2016	500,000	Village- sub to Gateway
SPARC (Gateway)	2016	1,600,000	
RESTORE NY (Briggs/Awad)	2017	875,000	Village- sub to Briggs/Awad
ILNY (HOM)	2017-2021	25,000	
DRI	2018	5,416,449	Village- sub to business owners
NY Main St (North Ave)	2019	250,000	County- sub to business owners
Foundations (Owego BPOE)	2021	42,000	
Foundations (Boys & Girls Club)	2021	63,000	
CFSCNY (TAC)	2021	7,300	
Foundations (Owego BPOE) *	2021	157,900	pending grant application
Foundations (Friends of Evergreen Cem) *	2021	14,300	pending grant application
CDBG (Racker) *	2021	300,000	pending grant application
Sub Total		9,750,949	

Investments & Matching Funds in VOO			
Gateway	2016	800,000	matching funds
Parkview	2016		matching funds
Briggs/Awad	2017	425,000	matching funds
DRI	2018		matching funds
OGI	2018	12,295,571	investment
NY Main Street- North Ave	2019	68,500	matching funds
Evergreen Cemetery Virtual Tour	2020	2,000	EPD direct payment
COVID Relief (Foundations)	2020	24,710	grants
Tioga County Property Development Corp	2020-2021	560,000	VOO projects only
Cornel Design Connect (North Ave Pit)	2020-2021	unknown	technical assistance
RACKER (CDBG)	2021	3,500,000	matching funds
OG2	2021	24,008,398	investment
TCIDA- water system improvements (ESD)	2021	350,000	grant
TCIDA- water system improvements (match)	2021	1,076,249	matching funds
NPS Historic Preservation Subgrant Program*	2021	733,316	pending grant application
ITCS LGE Shared Services *	2021	89,750	VOO portion only- pending
INHS	2021	14,000,000	investment
Sub Total		57,933,494	

Other Projects to Benefit VOO			
Housing Study/Implementation	2017-2018		TOI/IDA/
Code Enforcement Shared Services Study	2020	63,000	EDP paid cash contribution
COVID Relief (Foundations)	2020	14,000	
Code Enforcement Permit Fee Schedule	2021	7,000	EDP paid cash contribution
Sub Total		84,000	

Total		73,326,225	
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9/30/2021

WE ARE YOUR DOL



Kathy Hochul, Governor
Roberta Reardon, Commissioner

NOTICE OF EXPANDED LEGAL OBLIGATIONS UNDER NYS PREVAILING WAGE LAWS

The New York State Department of Labor (DOL) would like to take this opportunity to apprise all state and local government agencies of the most recent expansion of our prevailing wage laws that will encompass certain construction projects performed under private contract that receive public subsidies. **We are seeking your cooperation and partnership toward ensuring compliance with this new law.**

New York Labor Law 224-a (<https://codes.findlaw.com/ny/labor-law/lab-sect-224.html>) takes effect January 1st 2022, at which point construction projects throughout the state whose total costs exceed \$5 million and for which at least 30% of these costs are met through use of public subsidies, including grants, tax incentives, loans, credits, and other public monies, will be subject to applicable prevailing wage laws:

- Developers, owners, or contractors of any such project will be subject to comply with the applicable provisions in NY Labor Law 220, Article 8.
- All employees on covered projects must be paid the applicable prevailing wages rates and supplements. DOL's standard procedures for obtaining a wage schedule should be followed (<https://apps.labor.ny.gov/wpp/showPublicNewProject.do?method=showIt>)
- The submission of a certification and attestation that we will provide must also be submitted to DOL when applying for the required wage schedule.

We are requesting that you provide the DOL contact information for the appropriate representative from your agency by **October 4th**. Please send this information to us at Ask.PWAsk@labor.ny.gov. We will be following up with your agency in the coming weeks with additional details pertaining to compliance with this new law. DOL will begin enforcing this law upon implementation. For any questions or to discuss further, please contact Jonathan Jones (Jonathan.Jones@labor.ny.gov).

Thank you in advance for you anticipated cooperation.

Milan Bhatt
Deputy Commissioner for Worker Protection
New York State Department of Labor

TCIDA BUDGET
PARIS Submission 10-31-21

	Actual 2020	Adopted 2021	Estimated 2021 Actual as of 9/1/2021	Proposed 2022	Proposed 2023	Proposed 2024	Proposed 2025
REV & FINANCIAL SOURCES							
Operating Revenue							
Charges for Services							
Leases (Land/railroad)	\$ 13,013.40	\$ 13,076.00	\$ 13,509.36	\$ 13,500.00	\$ 13,500.00	\$ 13,500.00	\$ 13,500.00
Loan fee income (admin, application, & late fees)	\$ 2,039.04	\$ 1,400.00	\$ 3,018.85	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00
Suez Refund - E-Site	\$ -	\$ -	\$ -	\$ -	\$ 270,000.00	\$ -	\$ -
	\$ 15,052.44	\$ 14,476.00	\$ 16,528.21	\$ 16,500.00	\$ 286,500.00	\$ 16,500.00	\$ 16,500.00
Rental & Financing Income							
RJ Corman/OHRY	\$ 117,458.90	\$ 120,000.00	\$ 201,794.48	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00
Other Operating Revenues							
Land Sale	\$ 6,600.00	\$ -	\$ 3,800.00	\$ -	\$ -	\$ -	\$ -
PILOT Application Fees	\$ -	\$ 5,000.00	\$ -	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00
INHS Temple & Liberty	\$ -	\$ -	\$ 2,500.00	\$ -	\$ -	\$ -	\$ -
West Boy Star LLC	\$ -	\$ -	\$ 2,500.00	\$ -	\$ -	\$ -	\$ -
PILOT Agency Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Owega Gardens II	\$ 150,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
INHS Temple & Liberty	\$ -	\$ -	\$ -	\$ 138,000.00	\$ -	\$ -	\$ -
West Boy Star LLC	\$ -	\$ -	\$ 57,250.00	\$ -	\$ -	\$ -	\$ -
Crown Cork & Seal	\$ 42,000.00	\$ 42,000.00	\$ 42,000.00	\$ 42,000.00	\$ 42,000.00	\$ -	\$ -
PILOT Annual Administration Fee \$1500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
INHS Temple & Liberty	\$ -	\$ -	\$ -	\$ 1,500.00	\$ 1,500.00	\$ 1,500.00	\$ 1,500.00
West Boy Star LLC	\$ -	\$ -	\$ -	\$ 1,500.00	\$ 1,500.00	\$ 1,500.00	\$ 1,500.00
	\$ 198,600.00	\$ 47,000.00	\$ 108,050.00	\$ 188,000.00	\$ 50,000.00	\$ 8,000.00	\$ 8,000.00
Non-Operating Revenue							
Investment Earnings							
Interest on IDA funds (checking, ICS, savings, CD's)	\$ 12,746.15	\$ 12,000.00	\$ 7,483.83	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00
Other non-operating revenue (int on other accts)	\$ 290.23	\$ 250.00	\$ 108.00	\$ 110.00	\$ 110.00	\$ 110.00	\$ 110.00
Interest on loans	\$ 14,970.65	\$ 13,000.00	\$ 15,945.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00
	\$ 28,007.03	\$ 25,250.00	\$ 23,536.83	\$ 19,110.00	\$ 19,110.00	\$ 19,110.00	\$ 19,110.00
State Subsidies/Grants							
Waverly Trade Center	\$ 461,935.95	\$ -	\$ -	\$ 453.05	\$ -	\$ -	\$ -
Weitsman	\$ 232,500.00	\$ 232,500.00	\$ 232,500.00	\$ -	\$ -	\$ -	\$ -
V&S CAP	\$ 300,000.00	\$ -	\$ -	\$ -	\$ 350,000.00	\$ -	\$ -
ESD Water Tank (350k correct)	\$ -	\$ 300,000.00	\$ -	\$ -	\$ -	\$ -	\$ -
USDA Ag Value *contract decreased to 568,745	\$ 28,745.00	\$ 69,945.00	\$ 40,000.00	\$ -	\$ -	\$ -	\$ -
USDA Broadband	\$ -	\$ 65,397.00	\$ 65,397.00	\$ -	\$ -	\$ -	\$ -
FEMA Monkey Run - state share	\$ -	\$ -	\$ 3,539.53	\$ -	\$ -	\$ -	\$ -
Federal Subsidies/Grants	\$ -	\$ -	\$ 21,237.20	\$ -	\$ -	\$ -	\$ -
FEMA Monkey Run - federal share	\$ -	\$ -	\$ 21,237.20	\$ -	\$ -	\$ -	\$ -
	\$ 1,023,180.95	\$ 667,842.00	\$ 362,673.73	\$ 350,453.05	\$ -	\$ -	\$ -
TOTAL REV & FINANCIAL SOURCES	\$ 1,382,299.32	\$ 874,568.00	\$ 712,583.25	\$ 774,063.05	\$ 555,610.00	\$ 243,610.00	\$ 243,610.00

EXPENDITURES

Operating Expenditures							
Salaries & Wages							
Executive Administrator	\$ 48,235.04	\$ 48,600.00	\$ 46,800.00	\$ 49,230.00	\$ 49,230.00	\$ 49,230.00	\$ 49,230.00
* \$1800 of annual salary is paid via Health Savings Account							
Other Employee Benefits							
Health/dental insurance *IDA portion only-80%	\$ 4,415.33	\$ 5,703.00	\$ 4,517.44	\$ 4,607.79	\$ 4,699.94	\$ 4,793.94	\$ 4,889.82
I R A Company Match	\$ 1,349.92	\$ 1,457.00	\$ 1,242.00	\$ 1,304.10	\$ 1,304.10	\$ 1,304.10	\$ 1,304.10
H S A	\$ 1,800.00	\$ 1,800.00	\$ 3,600.00	\$ 3,600.00	\$ 3,600.00	\$ 3,600.00	\$ 3,600.00
	\$ 7,565.25	\$ 8,960.00	\$ 9,359.44	\$ 9,511.89	\$ 9,604.04	\$ 9,698.04	\$ 9,793.92
Professional Service Contracts							
Legal	\$ 28,514.95	\$ 30,000.00	\$ 40,552.00	\$ 35,000.00	\$ 35,000.00	\$ 35,000.00	\$ 35,000.00
Accounting (Nolis)	\$ 3,070.00	\$ 3,000.00	\$ 1,843.00	\$ 2,000.00	\$ 2,000.00	\$ 2,000.00	\$ 2,000.00
Accounting (Insert)	\$ 7,000.00	\$ 7,500.00	\$ 7,300.00	\$ 7,600.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00
Consulting	\$ -	\$ 2,500.00	\$ -	\$ -	\$ -	\$ -	\$ -
Public Hearing Expense (V&S CAP public hearing)	\$ 68.20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Timney	\$ 25,500.00	\$ 25,500.00	\$ 25,500.00	\$ 25,500.00	\$ -	\$ -	\$ -
Social media - Mt. Timney or BiLife	\$ 2,700.00	\$ 3,600.00	\$ 4,750.00	\$ 6,090.00	\$ 6,211.80	\$ 6,336.04	\$ 6,462.71
Contribution -Ag Dev Specialist	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	\$ -	\$ -	\$ -
Professional Fees other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C. Haskell	\$ 7,750.00	\$ 9,300.00	\$ -	\$ -	\$ -	\$ -	\$ -
	\$ 94,603.15	\$ 101,400.00	\$ 99,945.00	\$ 96,190.00	\$ 53,211.80	\$ 53,336.04	\$ 53,462.71
Supplies & Materials (Insurance)							
Travel/Accident	\$ 750.00	\$ 770.00	\$ 750.00	\$ 765.00	\$ 780.30	\$ 795.91	\$ 811.82
Directors & Officers	\$ 4,203.00	\$ 4,329.00	\$ 4,201.00	\$ 4,285.02	\$ 4,370.72	\$ 4,458.13	\$ 4,547.30
Railroad	\$ 24,904.80	\$ 26,295.00	\$ 26,648.14	\$ 27,181.10	\$ 27,724.72	\$ 28,279.22	\$ 28,844.80
Property & Liability	\$ 10,678.20	\$ 10,998.00	\$ 10,947.28	\$ 11,166.23	\$ 11,389.55	\$ 11,617.34	\$ 11,849.69
Workmans Camp/Disability	\$ 865.27	\$ 891.00	\$ 977.83	\$ 997.39	\$ 1,017.33	\$ 1,037.68	\$ 1,058.43
Crime Policy (paid once every 3 years)	\$ 625.00	\$ -	\$ -	\$ 662.50	\$ -	\$ -	\$ 702.25
(Insurance refund - workmans comp)	\$ (117.00)	\$ -	\$ (239.00)	\$ (200.00)	\$ (200.00)	\$ (200.00)	\$ (200.00)
	\$ 41,909.27	\$ 43,283.00	\$ 43,285.25	\$ 44,857.24	\$ 45,082.63	\$ 45,988.28	\$ 47,614.30
Other Operating Expenses							
Fire Tax	\$ 867.47	\$ 884.00	\$ 618.00	\$ 630.36	\$ 642.97	\$ 655.83	\$ 668.94
Education	\$ 530.00	\$ 2,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00
General Office Exp (supplies, postage, travel, etc)	\$ 4,129.93	\$ 2,300.00	\$ 1,393.00	\$ 2,000.00	\$ 2,000.00	\$ 2,000.00	\$ 2,000.00
Bank Service Charges	\$ 86.50	\$ -	\$ 35.00	\$ -	\$ -	\$ -	\$ -
(bank frnds)	\$ (47.50)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

*Current contract 4/2021-3/2022;
*BiLife-2% annual increased pmt requested

*21 budget incl w supplies	Dues & Subscriptions	\$	1,844.00	\$	-	\$	1,809.00	\$	2,000.00	\$	2,000.00	\$	2,000.00	\$	2,000.00
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	\$ 7,410.40	\$ 5,184.00	\$ 4,855.00	\$ 5,630.36	\$ 5,642.97	\$ 5,655.83	\$ 5,668.94
Non-Operating Expenditures							
Payment of Principal on Bonds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest & Financing Charges							
USDA Interest	\$ 5,996.23	\$ 5,603.00	\$ 5,603.00	\$ 5,204.00	\$ 4,803.00	\$ 4,504.00	\$ 3,886.00
Subsidies to other Public Authorities	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Asset Outlay							
V&S Water/Sewer	\$ 300,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
E-Site Water Tank; Aquastore Contact C	\$ -	\$ 678,360.00	\$ 177,735.00	\$ -	\$ -	\$ -	\$ -
E-Site Road & Site Work; Robinson Contract A & B	\$ -	\$ -	\$ 709,164.00	\$ -	\$ -	\$ -	\$ -
E-Site - Fagan Engineers Services	\$ 8,049.50	\$ -	\$ 20,000.00	\$ -	\$ -	\$ -	\$ -
E-Site - Suez fees	\$ -	\$ -	\$ 73,750.00	\$ -	\$ -	\$ -	\$ -
E-Site - Projected NYSEG/Suez Costs	\$ -	\$ -	\$ -	\$ 80,000.00	\$ -	\$ -	\$ -
E-Site - fees (DOH, Public Notice, etc.)	\$ 594.29	\$ -	\$ 148.71	\$ -	\$ -	\$ -	\$ -
E-Site - Industrial Park	\$ 2,289.34	\$ -	\$ 9,750.00	\$ -	\$ -	\$ -	\$ -
	\$ 310,933.13	\$ 678,360.00	\$ 990,547.71	\$ 80,000.00	\$ -	\$ -	\$ -
Grants & Donation Expense							
Waverly Trade Center	\$ 431,935.95	\$ -	\$ -	\$ 453.05	\$ -	\$ -	\$ -
Wellsman	\$ 232,500.00	\$ 232,500.00	\$ 232,500.00	\$ -	\$ -	\$ -	\$ -
V&S CAP	\$ -	\$ -	\$ 300,000.00	\$ -	\$ -	\$ -	\$ -
ESD Water Tank	\$ -	\$ -	\$ 350,000.00	\$ -	\$ -	\$ -	\$ -
USDA Ag Value *contract decreased to 568,745	\$ 38,745.00	\$ 61,200.00	\$ 30,000.00	\$ -	\$ -	\$ -	\$ -
USDA Broadband	\$ 65,397.00	\$ 65,397.00	\$ -	\$ -	\$ -	\$ -	\$ -
FEMA Monkey Run - state share	\$ -	\$ -	\$ 3,539.53	\$ -	\$ -	\$ -	\$ -
FEMA Monkey Run - federal share	\$ -	\$ -	\$ 21,237.20	\$ -	\$ -	\$ -	\$ -
	\$ 768,577.95	\$ 359,097.00	\$ 937,276.73	\$ 453.05	\$ -	\$ -	\$ -
Other Non-Operating Expenditures							
Studies							
Berry Archaeo	\$ 2,452.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
E-Site Wetland Delineation	\$ -	\$ -	\$ 6,800.00	\$ -	\$ -	\$ -	\$ -
Lounsbury Power Study	\$ -	\$ -	\$ 9,620.00	\$ -	\$ -	\$ -	\$ -
	\$ 2,452.00	\$ -	\$ 16,420.00	\$ 10,000.00	\$ -	\$ -	\$ -
Paint Program	\$ -	\$ 5,247.00	\$ 2,000.00	\$ 2,000.00	\$ 2,000.00	\$ 2,000.00	\$ 2,000.00
Loan Program							
marketing, admin fee, credit rpt fee, bank fees	\$ 2,174.48	\$ 1,400.00	\$ 2,376.88	\$ 2,377.00	\$ 2,377.00	\$ 2,377.00	\$ 2,377.00
Property Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL EXPENDITURES	\$ 1,289,856.90	\$ 1,257,134.00	\$ 2,158,469.01	\$ 305,453.53	\$ 171,951.44	\$ 172,789.19	\$ 174,032.87
EXCESS (DEFICIENCY) OF REVENUES AND CAPITAL CONTRIBUTIONS OVER EXPENDITURES	\$ 92,442.42	\$ (382,566.00)	\$ (1,445,885.76)	\$ 468,609.52	\$ 383,658.56	\$ 70,820.81	\$ 69,577.13
	Actual 2020	Adopted 2021	Estimated 2021 Actual as of 9/1/2021	Proposed 2022	Proposed 2023	Proposed 2024	Proposed 2025

*\$0 to date; \$350k of total contract in Grants Expense- ESD Water Tank
 *Robinson 2021 - \$348,970.25 paid to date
 *\$95k of \$115k paid; original 2018 contract \$95k; management CO \$20k not yet paid

A regular meeting of the Tioga County Industrial Development Agency (the "Agency") was convened in public session at the Ronald E. Dougherty County Office Building, 56 Main Street in the Town of Owego, Tioga County, New York on Wednesday, October 6, 2021, at 4:30 o'clock p.m., local time.

The meeting was called to order by the Chairperson and, upon roll being called, the following members of the Agency were:

PRESENT:	Jenny Ceccherelli	Chairperson
	Kevin Gillette	Vice Chairperson
	Martha Sauerbrey	Secretary
	Aaron Gowan	Treasurer
	Tracy Monell	Member
	Jonathan Ward	Member
	Eric Knolles	Member

ABSENT:

THE FOLLOWING PERSONS WERE ALSO PRESENT:

Christine Curtis	Executive Administrator
LeeAnn Tinney	Economic Development & Planning
Joseph B. Meagher, Esq.	Agency Counsel

The following resolution was offered by _____, seconded by _____, to wit:

RESOLUTION ACCEPTING AN APPLICATION FROM SUNEAST VALLEY SOLAR LLC (THE "COMPANY") FOR A LEASE/LEASEBACK TRANSACTION TO FACILITATE THE FINANCING OF THE ACQUISITION, CONSTRUCTION AND EQUIPPING OF A GROUND MOUNTED UTILITY SCALE SOLAR ENERGY GENERATION SYSTEM LOCATED ON 168+/- ACRES OF LAND SITUATE AT 2593 MONTROSE TURNPIKE, TOWN OF OWEGO, TIOGA COUNTY, NEW YORK TO PROVIDE FOR A SALES AND USE TAX EXEMPTION BENEFIT IN AN AMOUNT NOT TO EXCEED \$748,540.00 AND A REAL PROPERTY TAX EXEMPTION IN AN AMOUNT NOT TO EXCEED \$3,609,748.28, INCLUDING A DEVIATION FROM THE AGENCY'S UNIFORM TAX EXEMPTION POLICY, AND AUTHORIZING THE AGENCY TO SET AND CONDUCT A PUBLIC HEARING WITH RESPECT THERETO.

This Resolution shall take effect immediately.

The question of the adoption of the foregoing Resolution was duly put to a vote which resulted as follows:

Jenny Ceccherelli	voting	_____
Kevin Gillette	voting	_____
Martha Sauerbrey	voting	_____
Aaron Gowan	voting	_____
Tracy Monell	voting	_____
Jonathan Ward	voting	_____
Eric Knolles	voting	_____

The foregoing Resolution was thereon declared duly adopted.

STATE OF NEW YORK:

: ss.:

COUNTY OF TIOGA :

I, the undersigned Secretary of the Tioga County Industrial Development Agency (the "Agency"), do hereby certify that I have compared the foregoing extract of the minutes of the meeting of the members of the Agency, including the Resolution contained therein, held on October 6, 2021 with the original thereof on file in my office, and that the same is a true and correct copy of said original and of such Resolution set forth therein and of the whole of said original so far as the same relates to the subject matters therein referred to.

I FURTHER CERTIFY that (A) all members of the Agency had due notice of said meeting; (B) said meeting was in all respects duly held; (C) pursuant to Article 7 of the Public Officers Law (the "Open Meetings Law"), said meeting was open to the general public, and due notice of the time and place of said meeting was duly given in accordance with such Open Meetings Law; and (D) there was a quorum of the members of the Agency present throughout said meeting.

I FURTHER CERTIFY that, as of the date hereof, the attached Resolution is in full force and effect and has not been amended, repealed or rescinded.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the Agency this _____ day of _____, 2021.

Martha Sauerbrey
Secretary

(SEAL)