**Town of Manlius**
**Planning Board Agenda**
**January 27, 2020**
6:30PM

1. Pledge Of Allegiance

2. Approval Of Minutes - January 6, 2020

   Documents:

   JANUARY 6, 2020.PDF

3. Nicholas Corbishley & Kira Gridley, 93 Collidge Road, N. Syracuse, NY 13212 2-Lot Subdivision – 5700 Townsend Road, Fayetteville, NY 13066 Tax Map # 091.-02-26.1

   Documents:

   2-LOT SUBDIVISION - CORBISHLEY - GRIDLEY - 5700 TOWNSEND ROAD.PDF
   CORBISHLEY - GRIDLEY 2- LOT SUBDIVISION.PDF

4. WJC Works, LLC - Site Plan

   Documents:

   6985 COLLAMER ROAD - SITE PLAN.PDF

5. 3Gi – Central New York Inland Port, Vacant Rural Property To The South Of Kirkville Road Between Girden Rd. And Fremont Rd. Recommendation For Zone Change Tax Map #'s 054.-01-28.1, 054.-01-06.1, 054.-01-04.1 & 054.-01-2.1

   Documents:

   1- 3GI - KIRKVILLE ROAD - COMMENT RESPONSE LETTER 2019-12-10.PDF
   2- 3GI - KIRKVILLE ROAD - PROJECT NARRATIVE.PDF
   3- 3GI - KIRKVILLE ROAD - SITE PLAN APPLICATION - SIGNED.PDF
   4- 3GI - KIRKVILLE ROAD - ZONE CHANGE APPLICATION (3GI SIGNED).PDF
   5- 3GI - KIRKVILLE ROAD - PROPERTY LEGAL DESCRIPTIONS.PDF
   8- 3GI - KIRKVILLE ROAD- LEHR - ZONE CHANGE MAPS.PDF
   9- 3GI - KIRKVILLE ROAD- LEHR - SURVEY TOPO MAPS.PDF
   10- 3GI - KIRKVILLE ROAD - SHORT EAF - SIGNED.PDF
   6- 3GI - KIRKVILLE ROAD - EIS REPORT_2019-08-27.PDF
   7- 3GI - KIRKVILLE ROAD - SITE PLANS 2019-12-18.PDF

6. Other Business

7. Adjournment

Please Silence your Cell Phones
This meeting is being recorded and the audio recording will be posted to the Town Website at www.townofmanlius.org

**TOWN OF MANLIUS**
**PLANNING BOARD MINUTES**
**January 6, 2020**

**DRAFT**

The Town of Manlius Planning Board met in the Town Hall at 6:30 PM with Chairman Joseph Lupia presiding and the following Members were present: Fred Gilbert, Ann Kelly, Mike LeRoy, Frank Mento and Arnie Poltenson. Also, present were Attorney Jamie Sutphen and Town Engineer Douglas Miller.

Also, Present: Mike and Ellen McGrew, Elaine Denton and Chris Bollinger

The Pledge of Allegiance was recited.

Supervisor Edmond Theobald presented former member Don Crossett with a Proclamation for his dedicated service to the Planning Board. Member Crossett retired from the Board on December 6, 2019.

Chairman Lupia introduced new member Arnie Poltenson to the Board. Arnie has been appointed to fill Don Crossett's term.

**Minutes**
Member LeRoy made a motion, seconded by Member Mento and carried unanimously to approve the minutes of September 23, 2019. Member Gilbert abstained.

**Organizational Meeting 2020**
The Town Board appointed Joseph Lupia Chairman of the Planning Board for a period of 1 year.

The Town Board appointed Arnold Poltenson to a term of 3-years to expire December 31, 2023. (Filling the term of Don Crossett).

Member Mento made a motion, seconded by Member Gilbert and carried unanimously to appoint Baldwin, Sutphen and Frateschi Law Firm as Attorney for the Planning Board for 2020.

Member Kelly made a motion, seconded by Member LeRoy and carried unanimously to appoint Miller Engineering as the Planning Board Engineer for 2020.

Member Kelly made a motion, seconded by Member Mento and carried unanimously to appoint Lisa Beeman as the Planning Board Clerk for 2020.

Member Kelly made a motion, seconded by Member LeRoy and carried unanimously to approve the Planning Board 2020 Meeting Schedule, which states that the Board will meet on the 2nd and 4th Mondays of the Month at 6:30 PM and the Board approved the Application Filing Deadline Schedule.

| Planning Board Meeting Schedule for 2020 | |
|---|---|
| **Meeting Date** | **Filing Deadline** |
| | |
| January 6, 2020 | December 18, 2019 |
| January 27, 2020 | January 16, 2020 |
| February 10, 2020 | January 30, 2020 |
| February 24, 2020 | February 13,2020 |
| March 9, 2020 | February 27, 2020 |
| March 23, 2020 | March 12, 2020 |
| April 13, 2020 | April 2, 2020 |
| April 27, 2020 | April 16, 2020 |
| May 11, 2020 | April 20, 2020 |
| June 8, 2020 | May 28, 2020 |
| June 22, 2020 | June 11, 2020 |
| July 13, 2020 | July 2, 2020 |
| July 27, 2020 | July 16, 2020 |
| August 10, 2020 | July 29, 2020 |
| August 24, 2020 | August 13, 2020 |
| September 14, 2020 | September 3, 2020 |
| September 28, 2020 | September 17, 2020 |
| October 26, 2020 | October 15, 2020 |
| November 9, 2020 | October 29, 2020 |
| November 23, 2020 | November 12, 2020 |
| December 14, 2020 | December 3, 2020 |
| December 28, 2020 | December 17, 2020 |

DRAFT

**Woodland Hills Subdivision (Hoag Lane Development), 201 Solar Street, Syracuse, New York 13204**
**Continued - Site Plan - 21-Lot Subdivision – 5290-5320 Hoag Lane, Fayetteville, NY 13066**
**Tax Map # 104.-01-39.2**

Chairman Lupia stated that he received word late today that the Applicant requested a postponement for tonight's meeting.

Conversation ensued regarding the memo that was sent to the Applicant by Miller Engineering. There are questions about the wet pond that have not been answered; the Board has been asking for a GEO tech report for the last 3 years and it has not been submitted; the Board has been asking for a sewer offset plan, it has not been addressed; the SWPPP needs to be updated, date wise. The stormwater plan did not reflect the amount of dirt they intend to move; a second pond is now being introduced to the project; the plans do not show where the dirt is going to be stored.

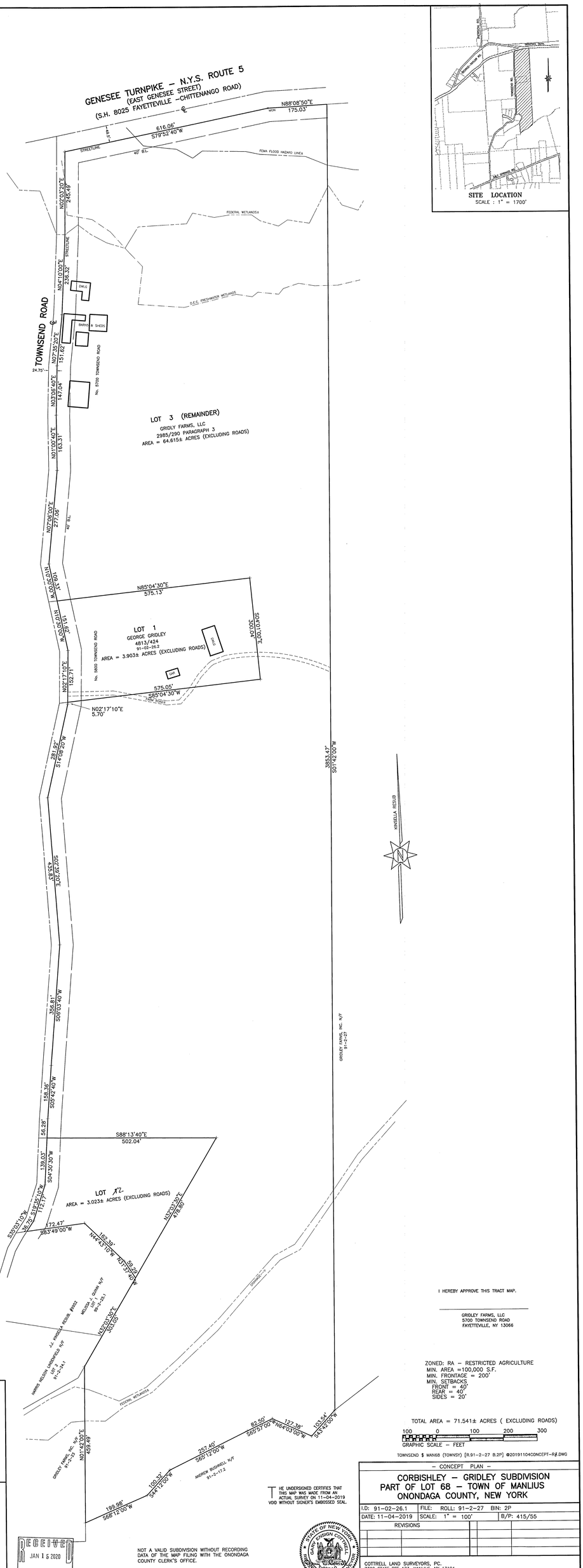
Conversation ensued regarding a work session with the entire Board or a work session with the Engineers alone.

**OTHER BUSINESS**

With there being no further business, Member Gilbert made a motion, seconded by Member LeRoy and carried unanimously to adjourn the Regular Meeting at 6:58 pm.

Respectfully submitted,
Lisa Beeman, Clerk

DRAFT




I HEREBY APPROVE THIS TRACT MAP.

GRIDLEY FARMS, LLC
5700 TOWNSEND ROAD
FAYETTEVILLE, NY 13066

ZONED: RA – RESTRICTED AGRICULTURE
MIN. AREA =100,000 S.F.
MIN. FRONTAGE = 200'
MIN. SETBACKS
FRONT = 40'
REAR = 40'
SIDES = 20'

TOTAL AREA = 71.541± ACRES ( EXCLUDING ROADS)

TOWNSEND $ MAN68 (TOWNSY) [R.91-2-27 B.2P] @20191104CONCEPT-R#.DWG

COUNTY HEALTH DEPARTMENT APPROVAL

SUBDIVISION OF LAND

PLANNING BOARD CHAIRPERSON
TOWN OF MANLIUS

RECEIVED
JAN 15 2020
By_____

NOT A VALID SUBDIVISION WITHOUT RECORDING DATA OF THE MAP FILING WITH THE ONONDAGA COUNTY CLERK'S OFFICE.

THE UNDERSIGNED CERTIFIES THAT THIS MAP WAS MADE FROM AN ACTUAL SURVEY ON 11-04-2019
VOID WITHOUT SIGNER'S EMBOSSED SEAL.

STATE OF NEW YORK
GARY DAVID COTTRELL
049160
LICENSED LAND SURVEYOR

– CONCEPT PLAN –

# CORBISHLEY – GRIDLEY SUBDIVISION
## PART OF LOT 68 – TOWN OF MANLIUS
## ONONDAGA COUNTY, NEW YORK

| | | | |
|---|---|---|---|
| I.D: 91-02-26.1 | FILE: ROLL: 91-2-27 BIN: 2P | | |
| DATE: 11-04-2019 | SCALE: 1" = 100' | | B/P: 415/55 |

REVISIONS

COTTRELL LAND SURVEYORS, PC.
7308 STATE RTE 173, MANLIUS, NY 13104
(315)682-8121, WWW.COTTRELLSURVEYORS.COM

CR48.100SC J:\15\2020 9:13:51 AM, F:\DWG*\, STA-5

Expected Fee: 300 pd 1-15-2020

# TOWN OF MANLIUS
## PLANNING DEPARTMENT
## INITIAL APPEARANCE APPLICATION

RECEIVED JAN 15 2020 By

DATE: 1/15/20

Name of Project: Corbishley/ Gridley Subdivision

**Applicant must submit 12 copies of all site plans, surveys, and supporting data with the final application before a planning board meeting can be scheduled.**

Location of Project:

Type of Project: 2-Lot

○ Division of Land ● Subdivision ○ Accessory Use ○ Zone Change ○ Site Review ○ Other

Developer: Phone:

Address: 5700 Townsend Rd Fayetteville Zip: 13066

Tax Map Number(#)/s: 091.-02-26.1

Present Zoning: RA- Restricted Agriculture Desired Zoning:

Total Acreage: 71.07 Total Number of Lots:

Property Owner/s: Gridley Farms Inc. O. George Gridley (pres) Phone: 3154366610

Address: 5800 Townsend Rd, Fayetteville N.Y. Zip: 13066

Tax Map#(s): Owner's Signature: O. George Gridley (pres)

Printed Name: O. George Gridley

Property Owner/s: Gridley farms Inc, Edward Gridley Phone: 315-243-3021

Address: 248 Saltspring st. Fayetteville NY Zip: 13066

Tax Map#(s): Owner's Signature: Edward Gridley

Printed Name: Edward Gridley

**Use next page for additional known property owners' information**

Planning Board Meeting Date Assignment:

Fee: Paid: Per: ○ Credit/Debit Card ○ Check ○ Cash

Planning Board - Initial

TOWN OF MANLIUS
PLANNING DEPARTMENT
INITIAL APPEARANCE APPLICATION
(continued)

Property Owner/s: _____ Phone: _____

Address: _____ Zip: _____

Tax Map#(s): _____ Owner's Signature: _____

_____ Printed Name: _____

---

Property Owner/s: _____ Phone: _____

Address: _____ Zip: _____

Tax Map#(s): _____ Owner's Signature: _____

_____ Printed Name: _____

---

Property Owner/s: _____ Phone: _____

Address: _____ Zip: _____

Tax Map#(s): _____ Owner's Signature: _____

_____ Printed Name: _____

---

Property Owner/s: _____ Phone: _____

Address: _____ Zip: _____

Tax Map#(s): _____ Owner's Signature: _____

_____ Printed Name: _____

---

Property Owner/s: _____ Phone: _____

Address: _____ Zip: _____

Tax Map#(s): _____ Owner's Signature: _____

_____ Printed Name: _____

---

Property Owner/s: _____ Phone: _____

Address: _____ Zip: _____

Tax Map#(s): _____ Owner's Signature: _____

_____ Printed Name: _____

*617.20*
*Appendix B*
*Short Environmental Assessment Form*

## Instructions for Completing

**Part 1 - Project Information. The applicant or project sponsor is responsible for the completion of Part 1.** Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

**Part 1 - Project and Sponsor Information**

Name of Action or Project:
Corbishley/Gridley Subdivision

Project Location (describe, and attach a location map):
SW corner of 091.-02-26.1

Brief Description of Proposed Action:
Plot subdivision for residence construction.

| Name of Applicant or Sponsor: | Telephone: (315) 243-6183, (315) 380-1492 |
|---|---|
| Kira Gridley & Nicolas Corbishley | E-Mail: KiraLGridley@gmail.com Nicolas.Corbishley@gmail.com |
| Address: 93 Coolidge Rd | |

| City/PO: | State: | Zip Code: |
|---|---|---|
| North Syracuse, ~~NY 13~~ | NY | 13212 |

| | NO | YES |
|---|---|---|
| 1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2. | ☒ | ☐ |
| 2. Does the proposed action require a permit, approval or funding from any other governmental Agency? If Yes, list agency(s) name and permit or approval: | ☒ | ☐ |

3.a. Total acreage of the site of the proposed action? 11.07 acres
b. Total acreage to be physically disturbed? 3 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 0 acres

4. Check all land uses that occur on, adjoining and near the proposed action.
☐ Urban ☒ Rural (non-agriculture) ☐ Industrial ☐ Commercial ☒ Residential (suburban)
☐ Forest ☒ Agriculture ☐ Aquatic ☐ Other (specify): _____
☐ Parkland

| | NO | YES | N/A |
|---|---|---|---|
| 5. Is the proposed action, | | | |
| a. A permitted use under the zoning regulations? | ☐ | ☒ | ☐ |
| b. Consistent with the adopted comprehensive plan? | ☐ | ☒ | ☐ |

| | NO | YES |
|---|---|---|
| 6. Is the proposed action consistent with the predominant character of the existing built or natural landscape? | ☐ | ☒ |
| 7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____ | ☒ | ☐ |
| 8. a. Will the proposed action result in a substantial increase in traffic above present levels? | ☒ | ☐ |
| b. Are public transportation service(s) available at or near the site of the proposed action? | ☒ | ☐ |
| c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action? | ☒ | ☐ |
| 9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: _____ | ☐ | ☒ |
| 10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____ | ☒ | ☐ |
| 11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____ | ☒ | ☐ |
| 12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places? | ☒ | ☐ |
| b. Is the proposed action located in an archeological sensitive area? | ☒ | ☐ |
| 13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency? | ☐ | ☒ |
| b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ | ☒ | ☐ |

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:
☐ Shoreline ☐ Forest ☒ Agricultural/grasslands ☐ Early mid-successional
☐ Wetland ☐ Urban ☐ Suburban

| | NO | YES |
|---|---|---|
| 15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered? | ☒ | ☐ |
| 16. Is the project site located in the 100 year flood plain? | ☒ | ☐ |
| 17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes, a. Will storm water discharges flow to adjacent properties? ☐ NO ☐ YES | ☒ | ☐ |
| b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: ☐ NO ☐ YES | | |

| | NO | YES |
|---|---|---|
| 18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)?<br>If Yes, explain purpose and size: | ☒ | ☐ |
| 19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility?<br>If Yes, describe: | ☒ | ☐ |
| 20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste?<br>If Yes, describe: | ☒ | ☐ |

**I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE**

Applicant/sponsor name: Kira Gridley Date: 1/15/2020

Signature: K G

STOP

**Part 2 - Impact Assessment. The Lead Agency is responsible for the completion of Part 2.** Answer all of the following questions in Part 2 using the information contained in Part 1 and other materials submitted by the project sponsor or otherwise available to the reviewer. When answering the questions the reviewer should be guided by the concept "Have my responses been reasonable considering the scale and context of the proposed action?"

| | No, or small impact may occur | Moderate to large impact may occur |
|---|---|---|
| 1. Will the proposed action create a material conflict with an adopted land use plan or zoning regulations? | ☐ | ☐ |
| 2. Will the proposed action result in a change in the use or intensity of use of land? | ☐ | ☐ |
| 3. Will the proposed action impair the character or quality of the existing community? | ☐ | ☐ |
| 4. Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)? | ☐ | ☐ |
| 5. Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway? | ☐ | ☐ |
| 6. Will the proposed action cause an increase in the use of energy and it fails to incorporate reasonably available energy conservation or renewable energy opportunities? | ☐ | ☐ |
| 7. Will the proposed action impact existing:<br>a. public / private water supplies? | ☐ | ☐ |
| b. public / private wastewater treatment utilities? | ☐ | ☐ |
| 8. Will the proposed action impair the character or quality of important historic, archaeological, architectural or aesthetic resources? | ☐ | ☐ |
| 9. Will the proposed action result in an adverse change to natural resources (e.g., wetlands, waterbodies, groundwater, air quality, flora and fauna)? | ☐ | ☐ |

| | No, or small impact may occur | Moderate to large impact may occur |
|---|---|---|
| 10. Will the proposed action result in an increase in the potential for erosion, flooding or drainage problems? | ☐ | ☐ |
| 11. Will the proposed action create a hazard to environmental resources or human health? | ☐ | ☐ |

**Part 3 - Determination of significance. The Lead Agency is responsible for the completion of Part 3.** For every question in Part 2 that was answered "moderate to large impact may occur", or if there is a need to explain why a particular element of the proposed action may or will not result in a significant adverse environmental impact, please complete Part 3. Part 3 should, in sufficient detail, identify the impact, including any measures or design elements that have been included by the project sponsor to avoid or reduce impacts. Part 3 should also explain how the lead agency determined that the impact may or will not be significant. Each potential impact should be assessed considering its setting, probability of occurring, duration, irreversibility, geographic scope and magnitude. Also consider the potential for short-term, long-term and cumulative impacts.

☐ Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action may result in one or more potentially large or significant adverse impacts and an environmental impact statement is required.

☐ Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action will not result in any significant adverse environmental impacts.

| | |
|---|---|
| Name of Lead Agency | Date |
| Print or Type Name of Responsible Officer in Lead Agency | Title of Responsible Officer |
| Signature of Responsible Officer in Lead Agency | Signature of Preparer (if different from Responsible Officer) |

PRINT

# TOWN OF MANLIUS

## DISCLOSURE AFFIDAVIT

This affidavit is a part of and must be completed and attached to every application, petition, request submitted for a *site plan, variance, amendment, change of zoning, approval of a plat, exemption from a plat or official map, license* or *permit.*

STATE OF NEW YORK )
) SS:
COUNTY OF ONONDAGA )

I. _____, being duly sworn, deposes and says that (s) he is:

_____
(applicant, petitioner, corporation officer, property owner, *etc.)*

II. That deponent has read and is familiar with the provisions of the General Municipal Law, Section 809 which states:

A. Every application, petition or request submitted for a site plan, variance, amendment, change of zoning, approval of a plat, exemption from a plat or official map, license or permit, pursuant to the provisions or any ordinance, local law, rule or regulation constituting the zoning and planning regulations of a municipality shall state the name, residence and the nature and extent of the interest of any state officer or any officer or employee of such municipality is a part, in the person, partnership or association making such application, petition or request (hereinafter called the applicant) to the extent known to such applicant.

B. For the purpose of this action an officer or employee shall be deemed to have an interest in the applicant when (s)he, his/her spouse, or their brothers, sisters, parents, children, grandchildren, or the spouse of any of them:

1) is the applicant, or
2) is an officer, director, partner or employee of the applicant, or
3) legally or beneficially owns or controls stock of a corporate applicant or is a member of a partnership or association applicant, or
4) is a party to an agreement with such an applicant, express or implied, whereby (s) he may receive any payment or other benefit, whether or not for services rendered, or contingent upon the favorable approval of such application, petition or request.

C. Ownership of less than five percent (5%) of the stock of a corporation whose stock is listed on the New York or American Stock Exchanges shall not constitute an interest for the purposes of this section.

D. A person who knowingly and intentionally violates this section shall be guilty of a misdemeanor.

III. That no Town of Manlius officer, employee or a relative of either, as defined in Section 809 General Municipal Law has any interest in this application.

-OR-

If a Town of Manlius officer, employee or relative of either as defined in Section 809 General Municipal law has any interest in this application, the full particulars are provided on an attached sheet.

Date: January 15, 2020.

Kira Gridley
(Print Name)

(Signature)

(Entity Name)

By (Officer) (Title)

93 Coolidge Rd. N. Syracuse NY 13212
(Mailing Address of Applicant)

(315) 243-6183
(Telephone Number)

Date: _____, 20____.

(Print Name)

(Signature)

(Entity Name)

By (Officer) (Title)

(Mailing Address of Applicant)

(Telephone Number)

## ACKNOWLEDGEMENTS

STATE OF NEW YORK )
) SS:
COUNTY OF ONONDAGA )

On this 15th day of January in the year 2020, before me, the undersigned, a notary public in and for said state, personally appeared Kira Gridley, _____, and _____ personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within Petition and acknowledged to me the he/she/they executed the same in his/her/their capacity, and that by his/her/their signature(s) on the Petition, the individual or the persons upon behalf of which the individual acted executed the instrument.

Notary Public

DEBORAH J WITZEL
Notary Public, State of New York
No. 01WI6162236
Qualified in Onondaga County
Commission Expires March 5, 2023

Expected Fee: _____

# TOWN OF MANLIUS
## PLANNING DEPARTMENT
## INITIAL APPEARANCE APPLICATION

DATE: January 16, 2020

Name of Project: Purchase of 6985 Collamer Road

**Applicant must submit 12 copies of all site plans, surveys, and supporting data with the final application before a planning board meeting can be scheduled.**

Location of Project: 6985 Collamer Road

Type of Project:

○ Division of Land ○ Subdivision ○ Accessory Use ○ Zone Change ✓ Site Review ○ Other _____

Developer: N/A Phone: _____

Address: _____ Zip: _____

Tax Map Number(#)/s: 036.-01-04.0

Present Zoning: Commercial Dist. A/1 Desired Zoning: no change

Total Acreage: _____ Total Number of Lots: _____

Property Owner/s: Stephen G. Byer Phone: 315-422-0314

Address: c/o Germain & Germain p: _____

Tax Map#(s): same Owner's Signature: _____

Printed Name: (seller)

Property Owner/s: WJC Works, LLC Phone: _____

Address: 112 Pickard Drive, Syracuse, NY Zip: 13211

Tax Map#(s): same Owner's Signature: Matt VanGun, atty for buyer

Printed Name: Joe Woodworth (buyer)

**Use next page for additional known property owners' information**

Planning Board Meeting Date Assignment: _____

Fee: _____ Paid: _____ Per: ○ Credit/Debit Card ○ Check ○ Cash

*617.20*
*Appendix B*
*Short Environmental Assessment Form*

## Instructions for Completing

**Part 1 - Project Information. The applicant or project sponsor is responsible for the completion of Part 1.** Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

**Part 1 - Project and Sponsor Information**

Name of Action or Project:
Purchase of 6985 Collamer Road

Project Location (describe, and attach a location map):
036.-01-04.0

Brief Description of Proposed Action:
Purchase of 6985 Collamer Rd, a commercial property from Alan Byer Volvo / Stephen Byer, by WJC Works, LLC (Joe Woodworth, sole member)

Name of Applicant or Sponsor:
Melvin & Melvin for Woodworth

Telephone: 315-422-1311
E-Mail: mvanryn@melvinlaw.com

Address:
217 S. Salina St, 7th Floor

City/PO: Syracuse
State: NY
Zip Code: 13202

| | NO | YES |
|---|---|---|
| 1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2. | ☐ | ☐ |
| 2. Does the proposed action require a permit, approval or funding from any other governmental Agency? If Yes, list agency(s) name and permit or approval: Greater Syr. BDC - secondary lender - SBA loan | ☐ | ☑ |

3.a. Total acreage of the site of the proposed action? 2.81 acres
b. Total acreage to be physically disturbed? 0 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 2.81 acres

4. Check all land uses that occur on, adjoining and near the proposed action.
☐ Urban ☐ Rural (non-agriculture) ☐ Industrial ☑ Commercial ☐ Residential (suburban)
☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____
☐ Parkland

| | NO | YES | N/A |
|---|---|---|---|
| 5. Is the proposed action, | | | |
| a. A permitted use under the zoning regulations? | | ✓ | |
| b. Consistent with the adopted comprehensive plan? | | ✓ | |

| | NO | YES |
|---|---|---|
| 6. Is the proposed action consistent with the predominant character of the existing built or natural landscape? | | ✓ |

| | NO | YES |
|---|---|---|
| 7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____ | ✓ | |

| | NO | YES |
|---|---|---|
| 8. a. Will the proposed action result in a substantial increase in traffic above present levels? | ✓ | |
| b. Are public transportation service(s) available at or near the site of the proposed action? | | ✓ |
| c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action? | | |

not sure

| | NO | YES |
|---|---|---|
| 9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: _____ | ✓ | |

| | NO | YES |
|---|---|---|
| 10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____ | | ✓ |

| | NO | YES |
|---|---|---|
| 11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: septic (tested) | | ✓ |

| | NO | YES |
|---|---|---|
| 12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places? | ✓ | |
| b. Is the proposed action located in an archeological sensitive area? | ✓ | |

| | NO | YES |
|---|---|---|
| 13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency? | ✓ | |
| b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ | ✓ | |

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:

☐ Shoreline ☐ Forest ☐ Agricultural/grasslands ☐ Early mid-successional
☐ Wetland ☐ Urban ☑ Suburban

| | NO | YES |
|---|---|---|
| 15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered? | ✓ | |

| | NO | YES |
|---|---|---|
| 16. Is the project site located in the 100 year flood plain? | ✓ | |

| | NO | YES |
|---|---|---|
| 17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes, | | |
| a. Will storm water discharges flow to adjacent properties? ☐ NO ☐ YES not sure | ✓ | |
| b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? ☐ NO ☐ YES | | |

If Yes, briefly describe: No changes to existing site. Paved parking area but sufficient unpaved adjacent land for run-off. See site plan.

| | NO | YES |
|---|---|---|
| 18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)?<br>If Yes, explain purpose and size: | ☑ | ☐ |
| 19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility?<br>If Yes, describe: | ☑ | ☐ |
| 20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste?<br>If Yes, describe: soil remediation was done in 2015. Recent testing (Phase 2) by proposed buyer Woodworth shows soil is clean and uncontaminated. | ☐ | ☑ |

**I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE**

Applicant/sponsor name: Matthew Van Ryn, Melvint Melvin Date: Jan 16, 2020

Signature: Matt VanRyn

STOP

**Part 2 - Impact Assessment. The Lead Agency is responsible for the completion of Part 2.** Answer all of the following questions in Part 2 using the information contained in Part 1 and other materials submitted by the project sponsor or otherwise available to the reviewer. When answering the questions the reviewer should be guided by the concept "Have my responses been reasonable considering the scale and context of the proposed action?"

| | No, or small impact may occur | Moderate to large impact may occur |
|---|---|---|
| 1. Will the proposed action create a material conflict with an adopted land use plan or zoning regulations? | ☐ | ☐ |
| 2. Will the proposed action result in a change in the use or intensity of use of land? | ☐ | ☐ |
| 3. Will the proposed action impair the character or quality of the existing community? | ☐ | ☐ |
| 4. Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)? | ☐ | ☐ |
| 5. Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway? | ☐ | ☐ |
| 6. Will the proposed action cause an increase in the use of energy and it fails to incorporate reasonably available energy conservation or renewable energy opportunities? | ☐ | ☐ |
| 7. Will the proposed action impact existing:<br>a. public / private water supplies? | ☐ | ☐ |
| b. public / private wastewater treatment utilities? | ☐ | ☐ |
| 8. Will the proposed action impair the character or quality of important historic, archaeological, architectural or aesthetic resources? | ☐ | ☐ |
| 9. Will the proposed action result in an adverse change to natural resources (e.g., wetlands, waterbodies, groundwater, air quality, flora and fauna)? | ☐ | ☐ |

| | No, or small impact may occur | Moderate to large impact may occur |
|---|---|---|
| 10. Will the proposed action result in an increase in the potential for erosion, flooding or drainage problems? | ☐ | ☐ |
| 11. Will the proposed action create a hazard to environmental resources or human health? | ☐ | ☐ |

**Part 3 - Determination of significance. The Lead Agency is responsible for the completion of Part 3.** For every question in Part 2 that was answered "moderate to large impact may occur", or if there is a need to explain why a particular element of the proposed action may or will not result in a significant adverse environmental impact, please complete Part 3. Part 3 should, in sufficient detail, identify the impact, including any measures or design elements that have been included by the project sponsor to avoid or reduce impacts. Part 3 should also explain how the lead agency determined that the impact may or will not be significant. Each potential impact should be assessed considering its setting, probability of occurring, duration, irreversibility, geographic scope and magnitude. Also consider the potential for short-term, long-term and cumulative impacts.

☐ Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action may result in one or more potentially large or significant adverse impacts and an environmental impact statement is required.

☐ Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action will not result in any significant adverse environmental impacts.

| | |
|---|---|
| Name of Lead Agency | Date |
| Print or Type Name of Responsible Officer in Lead Agency | Title of Responsible Officer |
| Signature of Responsible Officer in Lead Agency | Signature of Preparer (if different from Responsible Officer) |

PRINT

# Property Description Report For: 6985 Collamer Rd, Municipality of Town of Manlius

*No Photo Available*

| | | | |
|---|---|---|---|
| | | **Status:** | Active |
| | | **Roll Section:** | Taxable |
| | | **Swis:** | 313889 |
| | | **Tax Map ID #:** | 036.-01-04.0 |
| | | **Property #:** | |
| | | **Property Class:** | 433 - Auto body |
| | | **Site:** | COM 1 |
| | | **In Ag. District:** | No |
| | | **Site Property Class:** | 433 - Auto body |
| | | **Zoning Code:** | CA |
| | | **Neighborhood Code:** | 00500 |
| **Total Acreage/Size:** | 2.81 | **School District:** | E. Syracuse-Minoa |
| **Land Assessment:** | 2019 - $53,800 | **Total Assessment:** | 2019 - $269,000 |
| **Full Market Value:** | 2019 - $269,000 | | |
| **Equalization Rate:** | ---- | **Property Desc:** | Fl 13 |
| **Deed Book:** | 5377 | **Deed Page:** | 933 |
| **Grid East:** | 645299 | **Grid North:** | 1133682 |

## Owners

Randy Capriotti

Stephen G Byer
1230 W Genesee St
Syracuse NY 13204

## Sales

| Sale Date | Price | Property Class | Sale Type | Prior Owner | Value Usable | Arms Length | Addl. Parcels | Deed Book and Page |
|---|---|---|---|---|---|---|---|---|
| 6/22/2016 | $195,500 | 433 - Auto body | Land & Building | Sutor, Pauline | No | No | No | 5377/933 |
| 2/13/2003 | $230,000 | 433 - Auto body | Land & Building | Vaught, Glenn C | Yes | Yes | No | 4766/477 |

## Utilities

| | | | |
|---|---|---|---|
| **Sewer Type:** | Private | **Water Supply:** | Comm/public |
| **Utilities:** | Gas & elec | | |

## Inventory

| | | | |
|---|---|---|---|
| **Overall Eff Year Built:** | 0 | **Overall Condition:** | Normal |
| **Overall Grade:** | Average | **Overall Desirability:** | 3 |

## Buildings

| AC% | Sprinkler% | Alarm% | Elevators | Basement Type | Year Built | Condition | Quality | Gross Floor Area (sqft) | Stories |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | | 1970 | Normal | Average- | 7200 | 1 |

## Improvements

| Structure | Size | Grade | Condition | Year |
|---|---|---|---|---|
| Fence-chn lk | 480 × 6 | Average | Fair | 1965 |
| Pavng-asphlt | 15000 × 4 | Average | Normal | 1965 |

## Special Districts for 2019

| Description | Units | Percent | Type | Value |
|---|---|---|---|---|
| LT001-Manl cons lgt dis #1 | 0 | 0% | | 0 |
| WR001-Manl cons water dist | 1 | 0% | | 0 |
| FR004-Minoa fire | 0 | 0% | | 0 |
| CWR40-County water | 0 | 0% | | 0 |

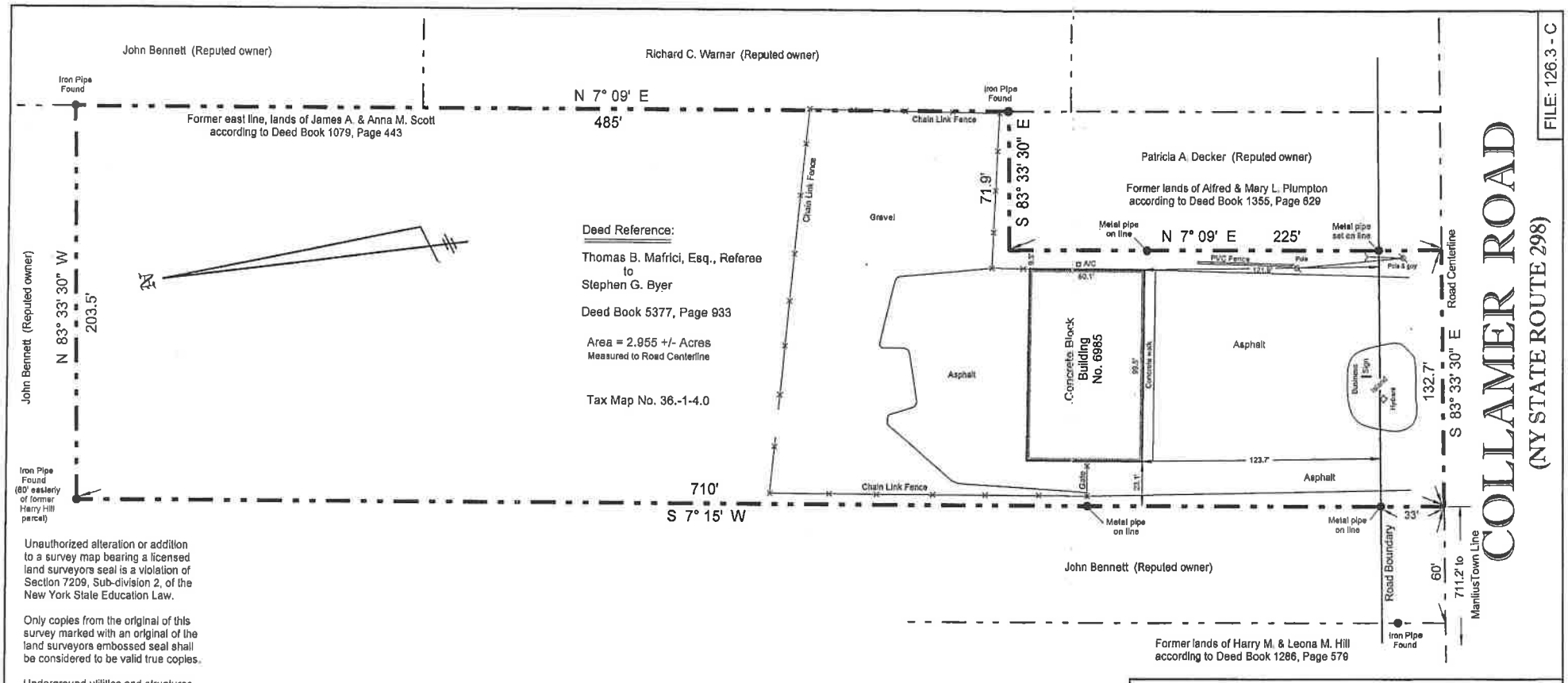
## Exemptions

| Year | Description | Amount | Exempt % | Start Yr | End Yr | V Flag | H Code | Own % |
|---|---|---|---|---|---|---|---|---|

# Taxes

| Year | Description | Amount |
|---|---|---|

*** Taxes reflect exemptions, but may not include recent changes in assessment.**




Unauthorized alteration or addition to a survey map bearing a licensed land surveyors seal is a violation of Section 7209, Sub-division 2, of the New York State Education Law.

Only copies from the original of this survey marked with an original of the land surveyors embossed seal shall be considered to be valid true copies.

Underground utilities and structures are not located by this survey.


THOMAS D. JONES

NEW YORK STATE LICENSED LAND SURVEYOR

5727 STONYKILL STREET EAST SYRACUSE, N.Y. 13057

PHONE: (315) 656-8607


The undersigned certifies that this map was made from an actual survey completed November 27, 2019.

N.Y. State Licensed Land Surveyor No. 49315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Lands of

# Stephen G. Byer

Part of Lot No. 13

Town of Manlius

Onondaga County, New York

SCALE: 1" = 60' FILE: 126.3 - C

# 6985 Collamer Rd

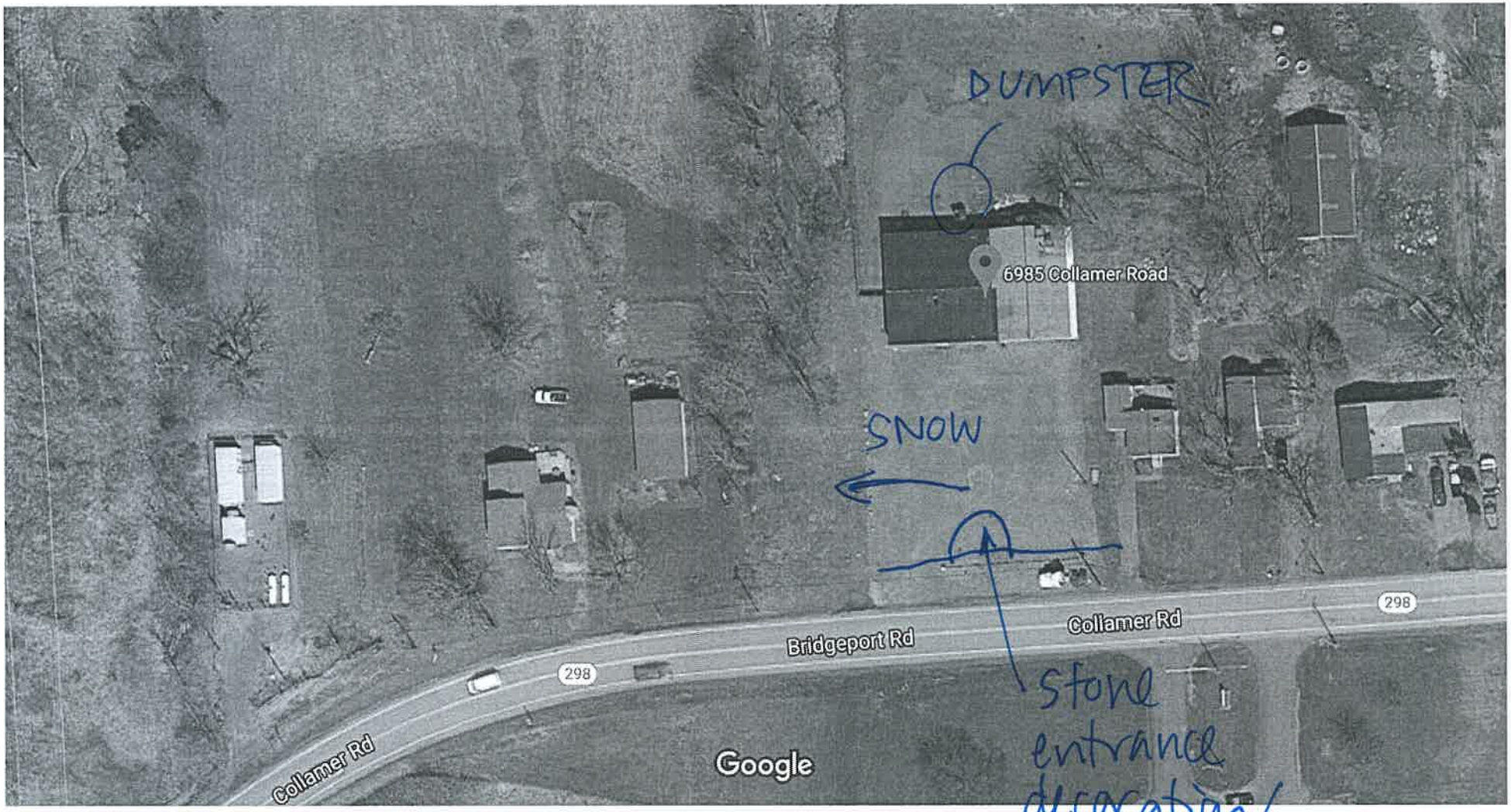
East Syracuse, NY 13057

Directions Save Nearby Send to your phone Share

Stone circle traffic divider at entrance

## Photos

Google Maps 6985 Collamer Rd




Imagery ©2020 Maxar Technologies, New York GIS, Map data ©2020 50 ft

AECC
ENVIRONMENTAL CONSULTING

**RELIANCE LETTER**

January 8, 2020

To: Greater Syracuse Business Development Corporation
101 South Salina Street #10
Suite 1030
Syracuse, New York 13202

and

U.S. Small Business Administration ("SBA")

Re: Borrower Name: CNY Racing
Project Address ("Property"): 6985 Collamer Road, East Syracuse, New York 13057
Environmental Investigation Report Number(s): 19-290 Groundwater Sampling Report

Dear Lender and SBA:

Richard D. McKenna ("Environmental Professional") meets the definition of an Environmental Professional as defined by 40 C.F.R. § 312.10(b) and has performed or supervised the performance of the following "Environmental Investigation(s)" (check all that apply):

____A Transaction Screen of the Property dated , 20 , and any addendum(s) thereto, conducted in accordance with ASTM International's most recent standard (currently ASTM E1528-14);

____A Phase I (or an Updated Phase I) Environmental Site Assessment of the Property dated , 20 , and any addendum(s) thereto, conducted in accordance with ASTM International's most recent standard (currently ASTM E1527-13). In addition, the Environmental Professional has addressed the performance of the "additional inquiries" set forth at 40 C.F.R. § 312.22;

X A Phase II Environmental Site Assessment of the Property dated January 8, 2020, and any addendum(s) thereto, conducted in accordance with generally-accepted industry standards of practice and consisting of a scope of work that would be considered reasonable and sufficient to identify the presence, nature and extent of a Release as it impacts the Property.

Reliance by SBA and Lender. Environmental Professional (and Environmental Professional's firm, where applicable) understand(s) that the Property may serve as collateral for an SBA guaranteed loan, a condition for which is an Environmental Investigation of the Property by an Environmental Professional. Environmental Professional (and Environmental Professional's firm, where applicable) authorize(s) Lender and SBA to use and rely upon the Environmental Investigation. Further, Environmental



Asbestos & Environmental Consulting Corp. ~ 6308 Fly Road, East Syracuse, NY 13057 ~ (315) 432-9400 ~ (315) 432-9405 fax

RELIANCE LETTER
Borrower Name: CNY Racing
Project Address ("Property"): 6985 Collamer Road, East Syracuse, New York 13057

Professional (and Environmental Professional's firm, where applicable) authorize(s) Lender and SBA to release a copy of the Environmental Investigation to the borrower for information purposes only. This letter is not an update or modification to the Environmental Investigation. Environmental Professional (and Environmental Professional's firm, where applicable) makes no representation or warranty, express or implied, that the condition of the Property on the date of this letter is the same or similar to the condition of the Property described in the Environmental Investigation.

Insurance Coverage. Environmental Professional (and/or Environmental Professional's firm, where applicable) certifies that he or she or the firm was covered as of the date of the Environmental Investigation by errors and omissions liability insurance with a minimum coverage of $1,000,000 per claim (or occurrence) and that evidence of this insurance is attached. As to the Lender and SBA, Environmental Professional (and Environmental Professional's firm, where applicable) specifically waive(s) any dollar amount limitations on liability up to $1,000,000 as well as any time limitations on liability, other than state or Federal statutes of limitation.

Waiver of Right to Indemnification. Environmental Professional and Environmental Professional's firm waive any right to indemnification from the Lender and SBA.

Impartiality. Environmental Professional certifies that (1) to the best of his or her knowledge, Environmental Professional is independent of and not a representative, nor an employee or affiliate of seller, borrower, operating company, or any person in which seller has an ownership interest; and (2) the Environmental Professional has not been unduly influenced by any person with regard to the preparation of the Environmental Investigation or the contents thereof.

Acknowledgment. The undersigned acknowledge(s) and agree(s) that intentionally falsifying or concealing any material fact with regard to the subject matter of this letter or the Environmental Investigations may, in addition to other penalties, result in prosecution under applicable laws including 18 U.S.C. § 1001.

R D McKenna

Environmental Professional
Printed Name: Richard D. McKenna

Signature of representative of firm who is authorized to sign this letter
Printed Name & Title: Bryan Bowers, President

Name of Environmental Firm: Asbestos & Environmental Consulting Corporation

Enclosure: Evidence of Insurance



Asbestos & Environmental Consulting Corp. ~ 6308 Fly Road, East Syracuse, NY 13057 ~ (315) 432-9400 ~ (315) 432-9405 fax

# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 9/9/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).**

PRODUCER
OneGroup NY, Inc.
169 Main St.
Oneida NY 13421

CONTACT NAME: Denise Conti, CISR, CRIS, MLIS
PHONE (A/C, No, Ext): (315) 280-6322 FAX (A/C, No): (315) 363-2183
E-MAIL ADDRESS: DConti@OneGroup.com

| INSURER(S) AFFORDING COVERAGE | NAIC # |
|---|---|
| INSURER A : Stratford Insurance Company | 40436 |
| INSURER B : Travelers Casualty Ins. Comp. of Amer. | 19046 |
| INSURER C : | |
| INSURER D : | |
| INSURER E : | |
| INSURER F : | |

INSURED ASBEN
Asbestos & Environmental Consulting Corporation
Bowers Realty, LLC
Bowers Development, LLC
6308 Fly Road
East Syracuse NY 13057

**COVERAGES** **CERTIFICATE NUMBER:** 1244595063 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| INSR LTR | TYPE OF INSURANCE | ADDL INSD | SUBR WVD | POLICY NUMBER | POLICY EFF (MM/DD/YYYY) | POLICY EXP (MM/DD/YYYY) | LIMITS | |
|---|---|---|---|---|---|---|---|---|
| A | X COMMERCIAL GENERAL LIABILITY | Y | Y | EVP100187301 | 9/8/2019 | 9/8/2020 | EACH OCCURRENCE | $ 1,000,000 |
| | CLAIMS-MADE X OCCUR | | | | | | DAMAGE TO RENTED PREMISES (Ea occurrence) | $ 50,000 |
| | X 5,000 | | | | | | MED EXP (Any one person) | $ 10,000 |
| | | | | | | | PERSONAL & ADV INJURY | $ 1,000,000 |
| | GEN'L AGGREGATE LIMIT APPLIES PER: | | | | | | GENERAL AGGREGATE | $ 2,000,000 |
| | POLICY X PRO-JECT X LOC | | | | | | PRODUCTS - COMP/OP AGG | $ 2,000,000 |
| | OTHER: | | | | | | | $ |
| B | AUTOMOBILE LIABILITY | Y | Y | BA5N8767681942G | 9/8/2019 | 9/8/2020 | COMBINED SINGLE LIMIT (Ea accident) | $ 1,000,000 |
| | X ANY AUTO | | | | | | BODILY INJURY (Per person) | $ |
| | OWNED AUTOS ONLY / SCHEDULED AUTOS | | | | | | BODILY INJURY (Per accident) | $ |
| | X HIRED AUTOS ONLY / X NON-OWNED AUTOS ONLY | | | | | | PROPERTY DAMAGE (Per accident) | $ |
| | | | | | | | | $ |
| A | UMBRELLA LIAB X OCCUR | Y | Y | EVX100187401 | 9/8/2019 | 9/8/2020 | EACH OCCURRENCE | $ 5,000,000 |
| | X EXCESS LIAB CLAIMS-MADE | | | | | | AGGREGATE | $ 5,000,000 |
| | DED X RETENTION $ 0 | | | | | | | $ |
| | WORKERS COMPENSATION AND EMPLOYERS' LIABILITY | | | | | | PER STATUTE / OTH-ER | |
| | ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N (Mandatory in NH) | N / A | | | | | E.L. EACH ACCIDENT | $ |
| | If yes, describe under DESCRIPTION OF OPERATIONS below | | | | | | E.L. DISEASE - EA EMPLOYEE | $ |
| | | | | | | | E.L. DISEASE - POLICY LIMIT | $ |
| A | Professional Liability<br>Contractors Pollution Liability | Y | Y | EVP100187301 | 9/8/2019 | 9/8/2020 | Each Claim<br>Each Occurrence<br>Aggregate | $1,000,000<br>$1,000,000<br>$2,000,000 |

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
See Attached...

**CERTIFICATE HOLDER**

Asbestos & Environmental Consulting Corporation
6308 Fly Road
East Syracuse NY 13057

**CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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# GROUNDWATER SAMPLING REPORT

Former G&G Collision
6985 Collamer Road
East Syracuse, New York

Original: January 7, 2020
**Revised January 8, 2020**

***Prepared by:***

Asbestos and Environmental Consulting Corporation
6308 Fly Road
East Syracuse, New York 13057

***Prepared for:***

CNY Racing
112 Pickard Drive East
Syracuse, New York 13211

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FIGURE 1 SITE PLAN

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TABLE 2 SUMMARY OF ANALYTICAL DATA – GROUNDWATER (SVOCS)
TABLE 3 SUMMARY OF ANALYTICAL DATA – GROUNDWATER (METALS)

## ATTACHMENTS

ATTACHMENT A SITE PHOTOGRAPHS
ATTACHMENT B LABORATORY ANALYTICAL REPORT
ATTACHMENT C NYSDEC "NO FURTHER ACTION" LETTER



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## COMMON ACRONYMS / ABBREVIATIONS

*bgs* – Below Ground Surface
*° C* – Degrees Celsius
*CP-51* – (NYSDEC) Commissioner's Policy #51 (for Soil Cleanup Guidance)
*CREC* – Controlled Recognized Environmental Condition
*DEC* – Department of Environmental Conservation
*DO* – Dissolved Oxygen
*EPA* – Environmental Protection Agency
*ESA* – Environmental Site Assessment
*GWS* – Groundwater Standard
*L* – Liter
*LSI* – Limited Subsurface Investigation
*N/A* – Not Applicable
*NYSDEC* – New York State Department of Environmental Conservation
*PAH* – Polycyclic Aromatic Hydrocarbons
*pH* – Unit-less measure of Acidity (Scale of 0 to 14, a pH of 7 is 'neutral')
*PID* – Photoionization Detector
*ppb* – Parts Per Billion
*ppm* – Parts Per Million
*REC* – Recognized Environmental Condition
*RSCO* – Restricted Soil Cleanup Objective
*SCO* – Soil Cleanup Objective
*SVOC* – Semi-Volatile Organic Compound
*TOGS* – Technical & Operational Guidance Series 1.1.1 (NYSDEC)
*USEPA* – United States Environmental Protection Agency
*UST* – Underground Storage Tank
*VOC* – Volatile Organic Compound



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## 1.0 INTRODUCTION

The Asbestos & Environmental Consulting Corporation (AECC) performed environmental consulting services and a groundwater sampling event at the former G&G Collision site located at 6985 Collamer Road in East Syracuse, New York. AECC performed this work under contract to the prospective purchaser, CNY Racing. The property is currently a vacant automobile collision repair facility.

### 1.1 PROJECT HISTORY

*Review of Previous Environmental Documentation*

AECC reviewed the following environmental documents provided by the Client:

- A December 6, 2019 Phase I Environmental Site Assessment (ESA) report, prepared by Labella Associates. The report concluded that former use of the Site as an automobile repair facility with a septic system was a Recognized Environmental Condition. The report also made reference to a prior Phase II ESA report, but Labella did not review the Phase II ESA report before submission of their Phase I ESA report.
- The Client obtained a copy of the referenced Phase II ESA report (Limited and Focused Subsurface Soil & Groundwater Investigation Report, prepared by LCS in September 2015). The review of the report revealed the following information:
    - The subject property had been utilized as an automotive repair facility and collision shop since at least the 1960s. Evidence of one active in-ground hydraulic lift and two former in-ground hydraulic lifts was noted within the automotive repair area of the subject structure. The subject property is serviced by a private septic system.
    - Twelve soil borings were advanced at the Site, including in areas adjacent to the hydraulic lifts, around the perimeter of the building, in the vicinity of the septic system, and in a filled area in the rear portion of the Site. Fill material was observed in all 12 borings.
    - PID readings above background were observed in a majority of the borings. Elevated PID readings were observed in one boring near the rear wall of the boring. Laboratory analysis did not detect concentrations of volatile organic compounds (VOCs) above applicable State standards. Laboratory analysis detected a limited number of semi-volatile organic compounds (SVOCs) at concentrations above applicable State standards in some soil borings advanced in the fill material in the rear of the Site.
    - One groundwater monitoring well was installed downgradient of the septic leach field. No groundwater impacts were observed.

In response to the elevated concentrations of SVOCs, LCS called the NYSDEC spill hotline, and a spill file (15-06353) was opened for the Site. The NYSDEC closed the spill file two weeks later. AECC recently interviewed Mr. Daniel LaSalle, the NYSDEC spill file manager. According to Mr. LaSalle, the spill file was closed since the contamination appeared to be associated with fill material (instead of a spill of petroleum) and there was no apparent risk to human health or the environment.

After the Client discussed the LCS report with M&T Bank, the bank stated in an e-mail that "the bank would also need to know where the septic tank is and make sure there is no groundwater contamination".



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### 1.3 LIMITATIONS AND STANDARD OF CARE

This report has been prepared on behalf of, and for the exclusive use of CNY Racing, for the stated purposes and locations identified in this report. This report may be relied upon by the following third-party entities:

- M&T Bank
- United States Small Business Administration
- Greater Syracuse Business Development Corporation

This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties. The use of this report by any undesignated third party or parties will be at such party's sole risk, and AECC and CNY Racing disclaim liability for any such third party use or reliance.

Our findings and conclusions are based on information obtained from on-site field investigation and analytical services performed under the contract, in the location and depths the samples were obtained. This Limited Subsurface Investigation was performed in accordance with the Scope of Services, as reflected in our proposal dated December 27, 2019.

Our services were performed in a manner consistent with generally accepted practices of environmental consulting services undertaken for a groundwater sampling event for the property location and based on readily available information about the property. Our services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made.

Specifically, we do not and cannot represent that the site contains no hazardous material, petroleum, or other latent condition beyond what was encountered and evaluated by our investigation.

## 2.0 INVESTIGATION METHODOLOGY

The following activities were conducted from December 23 -27, 2019.

### 2.1 SEPTIC SYSTEM LOCATION

The Client hired a septic service contractor to locate the septic tank and access port, and to determine the general location of the associated leach field. AECC observed the Client's contractor and obtained measurements of the location of the tank access port and other associated system components (in relation to Site landmarks). These measurements are provided on the attached Figure 1, and photographs of the septic system components are presented in Attachment A.

### 2.2 GROUNDWATER WELL DEVELOPMENT

The existing well was located and developed to determine if it was in a workable condition and remained viable. AECC utilized purge-and-surge methods with a bailer to disturb and suspend sediment within the water column. AECC then removed the silty water with the bailer for approximately 15 minutes. The location of the well is depicted on the attached Figure 1, and a photograph of the well in relation to Site features is presented in Attachment A.



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### 2.3 GROUNDWATER SAMPLING

The well was allowed to "rest" for approximately 48 hours. In order to purge the well, approximately 3 well volumes were removed from the well with a bailer.

Samples were collected from the well, dispensed into laboratory-prepared containers, and sent to the laboratory for analysis. The samples were be analyzed for Target Compound List (TCL) VOCs via EPA Method 8260, Base/Neutral SVOCs via EPA Method 8270, and RCRA 8 heavy metals by EPA Methods 6010/7470.

The well installation was left in-place after sampling.

## 3.0 FIELD OBSERVATIONS

### 3.2 SEPTIC SYSTEM LOCATION

AECC determined that the existing groundwater well is ideally-located downgradient and in the vicinity of the septic leach field.

### 3.2 GROUNDWATER WELL DEVELOPMENT

The temporary monitoring well appeared to be constructed of a 12-foot section of one-inch diameter PVC with a plastic cap on top. The screened interval of the well is not known. The well was loosely set in the borehole, which is indicative of a well that was not constructed with grout or sandpack.

The groundwater level was approximately 3.5 feet below ground surface (bgs). AECC observed that the silty water within the well was reddish-brown in color, and that the well recovery rate was satisfactory. After approximately 5 minutes of bailing, the majority of silt had been removed from the well. No odors or sheens were observed.

### 3.3 GROUNDWATER SAMPLING

The groundwater level was approximately 3.5 feet bgs. It was observed that the water was slightly turbid with a yellow/orange color. No odors or sheens were observed. No drawdown during purging was observed.

## 4.0 LABORATORY ANALYTICAL RESULTS

Groundwater analytical results were compared with the NYSDEC groundwater standards and guidance values published in the NYSDEC Division of Water Technical and Operations Guidance Series (TOGS) Memorandum 1.1.1. Summary tables comparing the detected contaminant concentrations to the NYSDEC standards / guidance values are presented in the Tables section of this report. The complete laboratory analysis report is presented as Attachment B.

*VOCs*

Only one VOC, acetone, was detected by the laboratory. The concentration of acetone (1.7 micrograms per liter [µg/L]) was well below the applicable TOGS standard of 50 µg/L.



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*SVOCs*

A total of six SVOCs were detected by the laboratory.

Caprolactam was detected at a concentration of 24 µg/L. There is no groundwater standard for caprolactum.

The five remaining detected compounds (fluoranthene, benzo(b)fluoranthene, chrysene, phenanthrene, and pyrene) are compounds commonly known as polycyclic aromatic hydrocarbons (PAH). Two of the five PAH compounds were detected above their applicable TOGS standard (0.002 µg/L for each):

- Benzo(b)fluoranthene was detected at a concentration of 0.02 µg/L
- Chrysene was detected at a concentration of 0.01 µg/L

*Metals*

Of the eight metals analyzed for, five were detected by the laboratory. Arsenic was detected at a concentration of 49.9 µg/L, which exceeds its applicable TOGS ambient groundwater standard of 25 µg/L. The remaining four metals (barium, cadmium, chromium, and lead) were detected at concentrations that were less than their applicable TOGS ambient groundwater standards.

## 5.0 SUMMARY AND CONCLUSIONS

Based on the information derived from this LSI, the following conclusions have been drawn:

- The septic system and leach field were located. To assist with future access, the Client's contractor constructed a concrete riser over the tank access port, and topped with a metal cover at the surface.
- AECC determined that the existing groundwater well is ideally-located downgradient and in the vicinity of the septic leach field.
- Although PAH compounds were not detected during the 2015 sampling event, the laboratory reporting limits for that event were 20 times higher than the reporting limits for this (2019) event. The concentrations of PAH detected during this (2019) event would not have been detected by the laboratory performing the analysis for the 2015 sampling event.
- It is likely that the concentrations of PAH compounds and arsenic detected in groundwater are potentially biased high and are associated with the urban fill at the Site, rather than a petroleum spill/release, for the following reasons:
    - The collected sample was turbid. The contaminant concentrations may have been biased high due if the contaminants were adhered to the suspended solids.
    - No petroleum odors or sheens were observed during well development, purging, or sampling.
    - The PAH compounds were detected at relatively low concentrations (less than or within one order of magnitude of the applicable TOGS standards).
- Since the primary use of caprolactum is as a monomer for Nylon 6, it is likely that the detection is due to cross-contamination rather than an actual presence in groundwater.



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- It has been our experience that the concentrations of detected compounds are typical of sites with urban fill. Since potable water is provided by a municipal system, there are no apparent sensitive receptors in the area, and there will be no exposure to site groundwater associated with the planned operations at the Site (screen printing and embroidery), it is our professional opinion that no further investigation or remediation is warranted.
- On January 7, 2020, the NYSDEC issued a letter stating "Based on the Groundwater Sampling Report submitted by AECC, Inc., the Department has determined that no remedial actions are necessary at this time." A copy of the letter is presented as Attachment C.
- A copy of this report should be provided to the NYSDEC Region 7 Office, located at 615 Erie Boulevard West, Syracuse, New York 13204, so that the spill file can be updated.

If you should have any questions regarding the information presented in this report, please feel free to contact our corporate office (315) 432-9400 at your convenience. AECC appreciates the opportunity to work with you on this important project.

Sincerely,
Asbestos & Environmental Consulting Corporation

Richard D. McKenna
Senior Project Manager



Asbestos & Environmental Consulting Corp. ~ 6308 Fly Road, East Syracuse, NY 13057 ~ (315) 432-9400 ~ (315) 432-9405 fax

M&T Bank
Understanding what's important®

November 15, 2019

Joe Woodworth
WJC Works LLC
6985 Collamer Road
East Syracuse, NY

**RE: $242,688 Permanent Mortgage**
**$194,150 Bridge Term Loan – SBA 504 Loan Program**

Dear Mr. Woodworth:

M&T Bank ("Bank") is pleased to advise you of its commitment to make available to **WJC Works LLC** ("Borrower") credit facilities in the aggregate maximum principal amount of **$436,838** (collectively, the "Credit Facility") for the purpose, upon the terms, and subject to the conditions set forth in this letter and in each Summary of Terms and Conditions attached hereto and made part hereof (together, the "Commitment").

This Commitment includes only a brief description of the principal terms of the Credit Facility. The closing and extension of the Credit Facility is contingent upon the satisfactory completion, in the Bank's sole discretion, of all due diligence on the Borrower, any required guarantor(s) and any other relevant third parties, and the delivery to Bank of loan documentation evidencing and securing the proposed Credit Facility in form and substance satisfactory to Bank and its counsel, containing such terms, conditions, representations, warranties, covenants, default provisions and remedies as are appropriate for facilities of this type, size and purpose (collectively, the "Loan Documents").

Upon acceptance and execution of this Commitment by Borrower, Borrower shall pay to Bank non-refundable commitment fees totaling **$250** (the "Commitment Fee"), duly earned by Bank upon such execution.

It is understood and agreed that this Commitment is further contingent upon there being no material adverse change in (i) the condition (financial or otherwise) of Borrower, any guarantor(s) or the collateral proposed to secure the Credit Facility, (ii) the constituent parties comprising Borrower and guarantor(s), (iii) any information or representations made in any of the materials submitted to Bank since the date any such information was submitted to Bank, or (iv) any change in law or regulation having a material effect on the Bank's ability to fund or service any portion of the Credit Facility in the manner contemplated as of the date hereof. This Commitment is made in reliance on the information received by Bank from Borrower and guarantor(s), and in supporting and related representations, discussions and material. Any misrepresentation or inaccuracy, or failure to supply Bank with any material information shall entitle Bank, in its sole discretion, to withdraw and/or cancel this Commitment. The Borrower will promptly advise the Bank, in writing, of any changes that could materially or adversely affect the Borrower's or any guarantor's financial condition.

Further, Borrower shall have delivered to Bank sufficiently in advance of closing, all information and documentation required by Bank to evidence or facilitate both the Borrower's and Bank's compliance with all applicable laws and regulations, including, without limitation, all "know your customer" rules in effect from time to time pursuant to the Bank Secrecy Act, the USA PATRIOT Act and other applicable laws. Any failure by Borrower or any necessary third party to deliver to Bank, in a timely manner, any material information or documentation requested, or any misrepresentation or inaccuracy with respect to any such information or documentation received, or if Bank reasonably determines that opening any account contemplated herein would potentially violate Bank's regulatory compliance policies or applicable law, shall permit Bank to withdraw or cancel this Commitment without liability.

The Commitment evidenced by this letter is for the benefit of the Borrower only and no other person may obtain any rights under this Commitment or be entitled to rely or claim reliance on this Commitment's terms and conditions. This Commitment may not be assigned by the Borrower without the Bank's prior written consent.

As part of the Credit Facility described in this Commitment and for the sole purpose of providing a lock on the fixed rate applying to the Credit Facility, Borrower may elect to enter into a Future Rate Lock Agreement ("Rate Lock") with M&T Bank. Please note that the Rate Lock is an agreement between the Borrower and M&T Bank and is not a security or other instrument that is tradable on an organized or over-the-counter market.

The Commitment evidenced by this letter is provided with the understanding that it shall not be disclosed to any person or entity other than the Borrower's accountants, attorneys and other professional advisors retained by Borrower in connection with the Credit Facility, except as such disclosure may be required by law. Any violations of the provisions of this paragraph shall, at the Bank's option, render the Commitment evidenced by this letter void.

The closing of the Credit Facility contemplated herein shall occur on or before **March 15, 2020** (the "Closing Date"), at such place as the Bank may designate, on or before which date definitive Loan Documents must be executed and delivered, and all terms and conditions for the initial funding under the Loan Documents must be met.

The Borrower shall pay all costs and expenses incurred by the Bank in connection with this Commitment and the Credit Facility, including without limitation, all due diligence costs and any counsel fees incurred in connection with the preparation, negotiation and delivery of this Commitment and the Loan Documents, and such payment shall be made upon demand, but no later than the earlier to occur of the Closing Date or the Commitment Termination Date (as defined below). The Borrower will reimburse the Bank for these expenses whether or not a closing occurs with respect to the proposed Credit Facility. The Borrower shall also pay the fees included on the attached Terms and Conditions.

Except as otherwise provided under federal law, this Commitment shall be governed by and be construed and enforced in accordance with the internal laws of the State/Commonwealth of **New York** without reference to conflicts or choice of law principles thereof.

No modification or waiver of any of the terms of this Commitment will be valid and binding unless agreed to in writing by the Bank. When accepted, this Commitment will constitute the entire agreement between the Bank and the Borrower concerning the Credit Facility, and shall replace all prior understandings, statements, negotiations and written materials relating to the Credit Facility. The terms and conditions of this Commitment shall not survive the closing of the Credit Facility, at which time the terms and conditions of the Loan Documents shall control and be determinative.

If the foregoing is satisfactory, kindly indicate your acceptance by signing the enclosed copy of this Commitment and returning to the Bank at the address noted below, one fully executed Commitment plus the Commitment Fee.

When accepted, this Commitment will evidence the intent of the parties to proceed in good faith with appropriate pre-closing due diligence and to finalize the terms, conditions and Loan Documents required in order to effectuate the Credit Facility referred to herein.

This Commitment shall automatically expire, and shall be null and void upon the earliest to occur of the following: (i) the Bank has not received a copy of this letter executed by you, within ten (10) days of the date hereof; and (ii) the Credit Facility has not closed on or before the Closing Date, which shall be deemed the "Commitment Termination Date". We may extend the Closing Date, in our sole discretion, provided such extension is in writing and, if so extended, the interest rates offered in connection with the Credit Facility have been adjusted to current market conditions. You acknowledge and agree that the Commitment Fee is non-refundable regardless of whether the Credit Facility closes.

We thank you for opportunity to work with you and to assist you in achieving your financial goals. If you have any questions please do not hesitate to contact the undersigned at (315)424-4038.

Sincerely,

M&T Bank

By: _____
Patrick Griffin, Banking Officer

THE FOREGOING COMMITMENT IS
ACCEPTED AND AGREED TO THIS
_____ ____, 2018.

**WJC Works LLC**

By: _____
Name Title

Borrower's attorney: _____
Address: _____
_____
Phone: _____

Exhibit to Commitment Letter dated November 15, 2019 to Borrower

SUMMARY OF TERMS AND CONDITIONS – Permanent Financing (Non-Construction)

| | |
|---|---|
| **BORROWER** | WJC Works LLC |
| **LENDER** | M&T Bank ("Bank") |
| **FACILITY TYPE** | Real Estate Loan (Non-Construction) ("Loan") |
| **PRINCIPAL AMOUNT** | $242,688 |
| **USE OF PROCEEDS** | The proceeds of the Loan will be used for bridge financing as a part of an SBA 504 financing structure for the purchase of owner occupied real estate. |
| **INTEREST RATE** | The Interest Rate will be a fixed rate to be fixed two (2) days prior to closing based on M&T Bank's **ten (10)** year Cost of Funds plus a margin. As of today, the rate would be 4.24%. Additional default interest rates and late fees will apply, as applicable. |
| **TERM** | Ten (10) years. |
| **PAYMENTS / AMORTIZATION** | Twenty (20) years with a balloon payment due on the maturity date. As an example, payments would be approximately $1,502 per month, principal including interest. |
| **PREPAYMENT PREMIUM** | 5% of any principal amount prepaid in the first year, declining 1% each year thereafter with a minimum premium allowance of 2%.<br>Borrower will be permitted to prepay up to 10% of the outstanding principal balance annually without penalty. |
| **GUARANTOR(S)** | Unlimited personal guarantee of Joe Woodworth.<br>Unlimited corporate guarantee of CNY Racing, LLC. |
| **COLLATERAL** | Recorded, first priority perfected:<br>• mortgage or deed of trust lien on the real property commonly known as 6985 Collamer Road, East Syracuse, NY; (the "Land"), and all buildings, structures, additions and improvements, now existing or hereafter erected upon or made to the Property ("Improvements"), together with any and all easements, rights-of-way, privileges and appurtenances belonging or in any way appertaining thereto (collectively, the "Property");<br>• assignment of all of Borrower's interest in all existing and future leases, rents, profits, subleases and agreements of sale of the Property, or any portion thereof, and all cash and other proceeds thereof, free and clear of all encumbrances not approved by Bank (the "Leases"). |
| **REPRESENTATIONS AND WARRANTIES** | Appropriate for facilities of this type, size and purpose. |
| **DEPOSIT RELATIONSHIP** | The Borrower shall maintain with the Bank its primary operating and deposit accounts. |
| **CONDITIONS TO LENDING** | Appropriate for facilities of this type, size and purpose including, but not limited to:<br>Any and all information the Bank deems necessary to evaluate and perform its due diligence in compliance with the terms and requirements of the Loan Agreement.<br>Payments to be automatically deducted from an M&T Bank account.<br>Subject to the approval of the SBA 504 Loan Program and satisfaction of all terms and conditions of that approval.<br>M&T Bank attorney required to close this loan at the Borrower's expense.<br>UCC search is required.<br>Final approval is conditioned upon the approval of the GSBDC financing as part of the SBA 504 program. |
| **FINANCIAL REPORTING; AUDITS; FINANCIAL CONTROLS OR OTHER COVENANTS** | Annual submission of year – end financial statements from WJC Works LLC and CNY Racing, LLC.<br>Annual submission of personal tax returns and personal financial statements from Joe Woodworth. |
| **EVENTS OF DEFAULT AND REMEDIES AFTER DEFAULT** | Appropriate for facilities of this type, size and purpose, including, but not limited to, confession of judgment (to the extent applicable under the Governing Law). |
| **EXPENSES** | The Borrower or the Guarantor, as the case may be, shall pay all reasonable out-of-pocket expenses of the Bank related to this proposed transaction, including, but not limited to counsel fees. |
| **GOVERNING LAW** | New York |
| **FEES** | Commitment Fee - $250 |

| REAL ESTATE LOAN: ADDITIONAL CONDITIONS | |
|---|---|
| **Appraisal** | At Borrower's expense, Bank will engage an appraisal firm to conduct an appraisal of the Property. The appraisal must be acceptable to Bank in all respects; including but not limited to a resulting loan to value ratio not to exceed 50%. |
| **Title Insurance** | Prior to Closing, a title commitment or title binder issued by a title insurance company acceptable to Bank (the "Title Company") pursuant to which the Title Company will issue to Bank, on the Closing Date, a mortgagee's policy of title insurance acceptable to Bank, insuring the appropriate mortgage or deed of trust, in the maximum principal amount of the Loan, as a valid **first** lien upon the Property in form and substance acceptable to the Bank. |
| **Flood Insurance** | If Bank determines, at Borrower's expense, at any time that any part of the Improvements is located in an area located in a special flood hazard area, Borrower will obtain and maintain a flood insurance policy, with a generally acceptable insurance carrier, in an amount satisfactory to Bank. |
| **Hazard Insurance** | Borrower will also need to procure hazard insurance with extended coverage insuring the Property in at least the amount of the mortgage loan with a standard **New York** mortgagee clause, naming M&T Bank as Mortgagee. Evidence of insurance coverage satisfactory to us needs to be furnished prior to closing. |
| **Environmental Testing and Indemnification** | At Borrower's expense, Bank will engage an environmental consulting firm to perform and submit to Bank all required environmental assessments of the Property, as may be required by the Bank in its reasonable discretion, the results of which must be acceptable to Bank. Borrower will authorize the property inspection by signing Bank's standard Authorization, Waiver and Indemnification Agreement. In addition, Borrower and Guarantor(s), if any, shall sign Bank's standard environmental indemnification agreement ("Indemnity Agreement"), indemnifying Bank for any environmental costs and liabilities relating to the Property. |
| **Asbestos** | Borrower will certify that buildings located on the Property do not include any materials containing asbestos, or if unable to do so, Bank may require suitable testing of the Property, at Borrower's expense, as a condition to the making the loan, or Bank may terminate the Commitment. |
| **Opinion** | If required by the Bank, Borrower will cause to be delivered to Bank an Opinion of Borrower's counsel acceptable to Bank in Bank's sole discretion. |
| **Compliance with Governmental and Other Requirements** | Borrower will certify and/or furnish evidence establishing that the Property, the Improvements and its use comply with all applicable zoning, subdivision, environmental, fire safety, building and other governmental laws, ordinances, codes, regulations and orders. |
| **Tax Monitoring** | Tax monitoring is required; fee to be paid by Borrower. |
| **Escrow** | Required. |

Exhibit to Commitment Letter dated November 15, 2019 to Borrower

SUMMARY OF TERMS AND CONDITIONS

| | |
|---|---|
| **BORROWER** | WJC Works LLC |
| **LENDER** | M&T Bank ("Bank") |
| **FACILITY TYPE** | Term Loan ("Loan") |
| **PRINCIPAL AMOUNT** | $194,150 |
| **USE OF PROCEEDS** | Proceeds to provide bridge financing as a part of an SBA 504 financing structure for the purchase of owner occupied real estate. |
| **INTEREST RATE** | The Interest Rate will be a floating rate based on M&T Bank's Prime Rate (provided that WSJ Prime will apply for certain facilities as required by law).<br>Additional default interest rates and late fees will apply, as applicable. |
| **TERM** | Twelve (12) months. |
| **AMORTIZATION/PAYMENTS** | Interest only monthly with the balance to be taken out by the GSBDC SBA 504 loan program. |
| **PREPAYMENT PREMIUM** | No prepayment premium. |
| **GUARANTOR(S)** | Unlimited personal guarantee of Joe Woodworth.<br>Unlimited corporate guarantee of CNY Racing, LLC. |
| **COLLATERAL** | Recorded, second priority perfected:<br>•mortgage or deed of trust lien on the real property commonly known as 6985 Collamer Road, East Syracuse, NY; (the "Land"), and all buildings, structures, additions and improvements, now existing or hereafter erected upon or made to the Property ("Improvements"), together with any and all easements, rights-of-way, privileges and appurtenances belonging or in any way appertaining thereto (collectively, the "Property");<br>•assignment of all of Borrower's interest in all existing and future leases, rents, profits, subleases and agreements of sale of the Property, or any portion thereof, and all cash and other proceeds thereof, free and clear of all encumbrances not approved by Bank (the "Leases"). |
| **REPRESENTATIONS AND WARRANTIES** | Appropriate for facilities of this type, size and purpose. |
| **DEPOSIT RELATIONSHIP** | The Borrower shall maintain with the Bank its primary operating and deposit accounts. |
| **CONDITIONS TO LENDING** | Appropriate for facilities of this type, size and purpose including, but not limited to:<br>Payments to be automatically deducted from an M&T Bank account.<br>Any and all information the Bank deems necessary to evaluate and perform its due diligence in compliance with the terms and requirements of the Loan Agreement.<br>Subject to the approval of the SBA 504 Loan Program and satisfaction of all terms and conditions of that approval.<br>Loan to close concurrently with the $242,688 commercial mortgage.<br>All other terms and conditions approved concurrent with the permanent financing will apply to this term loan.<br>M&T Bank attorney required to close this loan at the Borrower's expense. |
| **FINANCIAL REPORTING; AUDITS; FINANCIAL COVENANTS** | Appropriate for facilities of this type, size and purpose. |
| **EVENTS OF DEFAULT AND REMEDIES AFTER DEFAULT** | Appropriate for facilities of this type, size and purpose, including, but not limited to, confession of judgment (to the extent applicable under the Governing Law). |
| **EXPENSES** | The Borrower or the Guarantor, as the case may be, shall pay all reasonable out-of-pocket expenses of the Bank related to this proposed transaction, including, but not limited to counsel fees. |
| **GOVERNING LAW** | New York |
| **OPINION** | If required by the Bank, Borrower will cause to be delivered to Bank an Opinion of Borrower's counsel acceptable to Bank in Bank's sole discretion. |
| **FEES** | Waived |
| **ESCROW** | Required. |

**These Summaries of Terms and Conditions are for Borrower's confidential use only. The terms and conditions contained herein may not be disclosed by Borrower or any other person or entity, without Lender's prior written consent, to any person or entity (including any financial institution) other than the accountants, attorneys and other advisors to Borrower, and then only on a confidential basis in connection with the proposed transactions contemplated by the Summary of Terms and Conditions or the Commitment Letter of which it is a part.**

# TOWN OF MANLIUS

## DISCLOSURE AFFIDAVIT

This affidavit is a part of and must be completed and attached to every application, petition, request submitted for a *site plan, variance, amendment, change of zoning, approval of a plat, exemption from a plat or official map, license* or *permit.*

STATE OF NEW YORK )
) SS:
COUNTY OF ONONDAGA )

I. Matt VanRyn, being duly sworn, deposes and says that (s) he is:
attorneys of record for buyer/petitioner
(applicant, petitioner, corporation officer, property owner, *etc.)*

II. That deponent has read and is familiar with the provisions of the General Municipal Law, Section 809 which states:

A. Every application, petition or request submitted for a site plan, variance, amendment, change of zoning, approval of a plat, exemption from a plat or official map, license or permit, pursuant to the provisions or any ordinance, local law, rule or regulation constituting the zoning and planning regulations of a municipality shall state the name, residence and the nature and extent of the interest of any state officer or any officer or employee of such municipality is a part, in the person, partnership or association making such application, petition or request (hereinafter called the applicant) to the extent known to such applicant.

B. For the purpose of this action an officer or employee shall be deemed to have an interest in the applicant when (s)he, his/her spouse, or their brothers, sisters, parents, children, grandchildren, or the spouse of any of them:

1) is the applicant, or
2) is an officer, director, partner or employee of the applicant, or
3) legally or beneficially owns or controls stock of a corporate applicant or is a member of a partnership or association applicant, or
4) is a party to an agreement with such an applicant, express or implied, whereby (s) he may receive any payment or other benefit, whether or not for services rendered, or contingent upon the favorable approval of such application, petition or request.

C. Ownership of less than five percent (5%) of the stock of a corporation whose stock is listed on the New York or American Stock Exchanges shall not constitute an interest for the purposes of this section.

D. A person who knowingly and intentionally violates this section shall be guilty of a misdemeanor.

III. That no Town of Manlius officer, employee or a relative of either, as defined in Section 809 General Municipal Law has any interest in this application.

-OR-

If a Town of Manlius officer, employee or relative of either as defined in Section 809 General Municipal law has any interest in this application, the full particulars are provided on an attached sheet.

Date: Jan 16, 20 20.

Matthew Van Ryn
(Print Name)

Matt Van Ryn
(Signature)

Melvin & Melvin
(Entity Name)

Attorneys for Buyer/Petitioner
By (Officer) (Title)

217 S Salina St, 7th floor Syr 13202
(Mailing Address of Applicant)

315-422-1311
(Telephone Number)

Date: _____, 20_____.

(Print Name)

(Signature)

(Entity Name)

By (Officer) (Title)

(Mailing Address of Applicant)

(Telephone Number)

## ACKNOWLEDGEMENTS

STATE OF NEW YORK )
) SS:
COUNTY OF ONONDAGA )

On this 16th day of January in the year 20 20, before me, the undersigned, a notary public in and for said state, personally appeared Matthew Van Ryn, and _____ personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within Petition and acknowledged to me the he/she/they executed the same in his/her/their capacity, and that by his/her/their signature(s) on the Petition, the individual or the persons upon behalf of which the individual acted executed the instrument.

Barbara Nackley
Notary Public

BARBARA NACKLEY
NOTARY PUBLIC, STATE OF NEW YORK
Registration No. 01NA4873856
Qualified in Onondaga County
Commission Expires 10/20/2022

NAPIERALA CONSULTING
PROFESSIONAL ENGINEER, P.C.
SITE • DESIGN • ENGINEERING

110 FAYETTE STREET
MANLIUS, NEW YORK 13104

December 18, 2019

Randy Capriotti, Director of Code Enforcement
Town of Manlius, Planning and Development
301 Brooklea Drive
Fayetteville, NY 13066

**Re: 3Gi – Central New York Inland Port Project**

Dear Mr. Capriotti,

Enclosed for your review is a complete set of plans and documents for a zone change request and site plan review for the 3Gi property north of the CSX rail yard. We look forward to presenting to the Town of Manlius Planning Board meeting on January 6th, 2020. Below are responses to the submission comment letter from Miller Engineers dated September 11th, 2019.

1) *The site is currently zoned Restricted Agricultural (RA) and the proposed warehousing and storage container parking is not an allowable use.*
   **This submission contains the necessary application and materials to apply for a zone change.**

2) *Submission of site plan and supporting data is required should a zone change be requested… and shall include at a minimum the following information…*
   a) *A properly certified survey of the property…*
      **A certified survey of the subject parcels is included in this submittal and includes site features and existing topography. Additionally, zone change maps of the properties are also included.**

   b) *The site plan showing proposed building locations and land use areas.*
      **A site plan of the proposed container pooling operation is included in this submittal.**

   c) *Traffic circulation, parking and loading spaces, and pedestrian walks.*
      **The proposed access driveway off of Fremont Road is included on the site plan. There are no associated parking spaces or pedestrian facilities required for the current proposal.**

   d) *Landscaping plans, including site grading and landscape design.*
      **A landscaping and grading plan is included in this submittal.**

   e) *Preliminary architectural drawings for buildings…*
      **For the current proposal, only a small prefabricated modular office building is proposed. Colors and materials have yet to be determined. Some examples of what this office building could look like are shown on the following page. Warehouse buildings are included in the master development plan for the property and are shown only as an example of potential future proposals.**

PH 315-682-5580 • FAX 315-682-5544 • EMAIL:MNAP@NAPCON.COM

Figures 1&2: Examples of prefabricated modular office buildings.

f) *Preliminary engineering plans, including street improvements, drainage systems, and public utility extensions.*
**All proposed improvements have been included in the site plan. The only utilities proposed at this time are several pole-mounted site lights. Placeholders for stormwater management are shown on the site plan to mitigate future impervious area on the site.**

3) *For more specific detailed information, the applicant should be directed to reference the Town Zoning Code, procedures for zone change and site plan submission requirements.*
**We have reviewed section §155-28 'Site Plan Review' in the Town of Manlius zoning code, and believe that we have addressed all of the applicable requirements.**

Any and all future comments will be addressed accordingly. If you have any questions or if you need any other additional information, please contact us.

Respectfully submitted,

NAPIERALA CONSULTING
Professional Engineer, P.C.

*Matthew R. Napierala*

Matthew R. Napierala, P.E.
Managing Engineer / President

# Zone Change Application

For:

**CENTRAL NEW YORK INLAND PORT**
**TOWN OF MANLIUS, NY**

Prepared for:

**3Gi**
360 ERIE BOULEVARD EAST
SYRACUSE, NY 13202

Prepared by:

NAPIERALA CONSULTING
PROFESSIONAL ENGINEER, P.C.
SITE • DESIGN • ENGINEERING
110 FAYETTE STREET
MANLIUS, NEW YORK 13104
Telephone: (315) 682-5580
Fax: (315) 682-5544

December 2019

## *EXECUTIVE SUMMARY*

### A. INTRODUCTION

3Gi CNYIP Inc. (3Gi) is the leading private entity responsible for the development of the Central New York Inland Port (CNYIP), which will offer increased opportunities for importing and exporting by providing infrastructure for dedicated international intermodal service to and from the Port Authority of New York and New Jersey (PANYNJ). By increasing the amount of materials that are transported via rail relative to the amount transported by truck, the project will contribute to more efficient use of energy and reduction in greenhouse gas emissions while enhancing the import/export markets in NYS. 3Gi's CNYIP will be integrated into the existing Dewitt Rail Yard located south of Kirkville Road between Girden Road and Fremont Road in the Town of Manlius. The Dewitt Rail Yard has been operated by CSX since 1857 and is located along a route that extends from Boston to Cleveland. The rail yard and subject site is on a Class 1 railroad, is a part of the NYS Transportation Master Plan, and is also within the Federal Intermodal Corridor, making the project eligible for federal funding. In 2018, New York State funded $19 million to CSX to make improvements to the DeWitt Rail Yard in order to allow for international container service, which will commence in September of 2019. By developing a functional CNYIP, 3Gi plans to take advantage of the economic opportunity presented by international container service and therefore provide numerous socioeconomic and environmental benefits to the Central New York region.

### B. ECONOMIC INCENTIVES

3Gi, in business with Intransit Container, Inc., (ICI), will provide logistic services that match international import containers with exporters who need empty containers. Coordinating importers and exporters to take full advantage of round trip empty international containers is the primary business opportunity filled by 3Gi CNYIP and ICI Port of Worcester. Together, 3Gi and ICI fill a need for regional importers and exporters to send and receive a greater volume of goods from international markets in a more cost-effective and fuel-efficient manner. This business relationship will provide a streamlined alternative to shipping via truck, which is far more time and cost intensive.

### C. FACILITY OPERATIONS

The CNYIP will be set up to provide management of incoming and outgoing cargo for the Dewitt Rail Yard, where there is none today. CSX is in the business of transporting cargo; they do not manage cargo once it reaches its destination. The inland port will store, organize, coordinate, distribute, and manage the cargo from the transporter to and from the manufacturer and the buyer. The establishment of an effective inland port will start with the development of an international container yard for CSX containers. The container yard will take in off-loaded international containers, store them in a yard, and mitigate the truck transport of the containers to their final destination. The container yard will also take in empty containers and coordinate their distribution to Central New York exporters for filling. Once they are loaded with product, the containers will be returned to the CNYIP for export via rail back to the PANYNJ for international distribution on container ships.

Future expansion of CNYIP is unknown at this time but could potentially include the development of on-site warehousing for the short-term aggregation of products and the infrastructure required to coordinate the exporting of those products. It could also include the laying of track inside the CNYIP owned property, enabling CSX to switch the rail cars into the 3Gi operated container yard and thereby allow for the control of export loading and the ability to aggregate large numbers of containers to be shipped on the same train.

### D. ENVIRONMENTAL IMPACT

The implementation of a Central New York Inland Port will have a positive impact on the environment. Currently, CNY exporters have to transport their goods via truck (tractor trailer) down and through New York City to the PANYNJ. Not only is truck transport more expensive (greater than 5 times the cost of rail transport), but it is harmful to the environment due to excessive carbon emission from the trucks. Rail transport has significantly lower carbon emissions and therefore a smaller environmental impact.

Adjacent to the proposed site there are several NYSDEC freshwater wetlands and a FEMA 100-year floodplain area. The proposed project will avoid much of the jurisdictional wetland areas and only require a small impact for the

road extension from the container yard to Kirkville Road. The project will include properly sized stormwater mitigation basins to mitigate any effects to storm water runoff conditions resulting from the proposed development. A wetland delineation and determination report has been compiled and is included in Appendix C of this report.

## E. TRAFFIC IMPACT

As it exists today, the main route for international truck traffic that is entering or exiting the CSX operated DeWitt Rail Yard is via North Central Avenue and Fremont Road. Beginning in September of 2019, CSX will use this existing route for all international cargo transportation by truck. The long-term plan for the CNYIP is to reroute this truck traffic through the 3Gi site onto Girden Road before accessing Kirkville Road. This will alleviate the potential traffic burden from the prospective increase in international container service, thus avoiding the two schools and residential neighborhood located along Fremont Road. The traffic improvement proposed by 3Gi is a great enhancement to the existing condition. The temporary access road (Temp Road 1) proposed in Phase 1 will access the international container yard from Fremont Road. The first permanent option for site access from Girden Road (Perm Road 1) will be via an existing easement directly west of the site. The second permanent option for site access from Girden Road (Perm Road 2) will be to the northwest across the northern part of the wetland area. Perm Road 2 will require coordination with NYS in order to obtain funding, but will have a much smaller impact on the adjacent wetlands.

The intersection of Girden Road and Kirkville Road is only a three quarter-mile drive to Interstate 481. The connection to the NYS Thruway (Interstate 90) is only two miles north of this point and is only another 6 miles from Interstate 81. Therefore, from the future road improvement on Girden Road, international cargo will have a direct connection from the CSX railroad to the entirety of New York State, the northeastern United States, and eastern Canada. To assess the potential impact that the trip generation from the full build-out of the project will have on Girden Road and Kirkville Road, a traffic impact study has been prepared for this project and is included in Appendix D of this report.

## F. PROJECT BENEFITS

The CNYIP has many potential socio-economic and environmental benefits to the Central New York Region. The greatest positive outcome is the prospective economic growth that would accompany a reduction in shipping costs associated with a shift from importing and exporting by truck to rail. Many businesses within the CNY region have indicated that transportation costs are a significant cost of sales and consideration in their growth potential as well as retaining their business in NYS. Additionally, the long-term shift to importing and exporting by rail will result in a reduction in emissions of greenhouse gases through a decrease in tractor trailers on NYS roadways.

Expected Fee: _____

# TOWN OF MANLIUS
## PLANNING DEPARTMENT
## INITIAL APPEARANCE APPLICATION

DATE: August 27, 2019

Name of Project: 3Gi - Central New York Inland Port (CNYIP)

**Applicant must submit 12 copies of all site plans, surveys, and supporting data with the final application before a planning board meeting can be scheduled.**

Location of Project: Vacant rural property to the south of Kirkvile Road between Girden Rd and Fremont Rd

Type of Project:

○ Division of Land ○ Subdivision ○ Accessory Use ○ Zone Change ☒ Site Review ○ Other _____

Developer: 3Gi (Contact: Chris Beck) Phone: 315-849-0898

Address: 360 Erie Boulevard East, Syracuse, NY Zip: 13202

Tax Map Number(#)/s: 054.-01-28.1, 054.-01-06.1, 054.-01-04.1, & 054.-01-2.1

Present Zoning: Residential Agricultural Desired Zoning: Industrial

Total Acreage: 75.7 Acres Total Number of Lots: Four (4)

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Property Owner/s: 3Gi CNYIP Inc. Phone: 315-475-3700

Address: 360 Erie Boulevard East, Syracuse, NY Zip: 13202

Tax Map#(s): 054.-01-28.1, 054.-01-06.1, 054.-01-04.1, & 054.-01-2.1 Owner's Signature: [signature]

Printed Name: Eckardt C. Beck, CEO

---

Property Owner/s: _____ Phone: _____

Address: _____ Zip: _____

Tax Map#(s): _____ Owner's Signature: _____

Printed Name: _____

**Use next page for additional known property owners' information**

---

Planning Board Meeting Date Assignment: _____

Fee: _____ Paid: _____ Per: ○ Credit/Debit Card ○ Check ○ Cash

# TOWN OF MANLIUS

## DISCLOSURE AFFIDAVIT

This affidavit is a part of and must be completed and attached to every application, petition, request submitted for a *site plan, variance, amendment, change of zoning, approval of a plat, exemption from a plat or official map, license* or *permit.*

STATE OF NEW YORK )
) SS:
COUNTY OF ONONDAGA )

I. Eckardt C. Beck, being duly sworn, deposes and says that (s) he is:

CEO of 3G: CNYIP, Inc. (Property Owner)
(applicant, petitioner, corporation officer, property owner, *etc.)*

II. That deponent has read and is familiar with the provisions of the General Municipal Law, Section 809 which states:

A. Every application, petition or request submitted for a site plan, variance, amendment, change of zoning, approval of a plat, exemption from a plat or official map, license or permit, pursuant to the provisions or any ordinance, local law, rule or regulation constituting the zoning and planning regulations of a municipality shall state the name, residence and the nature and extent of the interest of any state officer or any officer or employee of such municipality is a part, in the person, partnership or association making such application, petition or request (hereinafter called the applicant) to the extent known to such applicant.

B. For the purpose of this action an officer or employee shall be deemed to have an interest in the applicant when (s)he, his/her spouse, or their brothers, sisters, parents, children, grandchildren, or the spouse of any of them:

1) is the applicant, or
2) is an officer, director, partner or employee of the applicant, or
3) legally or beneficially owns or controls stock of a corporate applicant or is a member of a partnership or association applicant, or
4) is a party to an agreement with such an applicant, express or implied, whereby (s) he may receive any payment or other benefit, whether or not for services rendered, or contingent upon the favorable approval of such application, petition or request.

C. Ownership of less than five percent (5%) of the stock of a corporation whose stock is listed on the New York or American Stock Exchanges shall not constitute an interest for the purposes of this section.

D. A person who knowingly and intentionally violates this section shall be guilty of a misdemeanor.

III. That no Town of Manlius officer, employee or a relative of either, as defined in Section 809 General Municipal Law has any interest in this application.

-OR-

If a Town of Manlius officer, employee or relative of either as defined in Section 809 General Municipal law has any interest in this application, the full particulars are provided on an attached sheet.

Date: August 27th, 20 19.

Eckardt C. Beck
(Print Name)

(Signature)

36: CNYIP, Inc.
(Entity Name)

CEO
By (Officer) (Title)

360 Erie Blvd. E, Syracuse, NY 13202
(Mailing Address of Applicant)

(315) 269-7767
(Telephone Number)

Date: _____, 20_____.

(Print Name)

(Signature)

(Entity Name)

By (Officer) (Title)

(Mailing Address of Applicant)

(Telephone Number)

## ACKNOWLEDGEMENTS

STATE OF NEW YORK )
) SS:
COUNTY OF ONONDAGA )

On this 27th day of August in the year 20 19, before me, the undersigned, a notary public in and for said state, personally appeared Eckardt C. Beck, _____, and _____ personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within Petition and acknowledged to me the he/she/they executed the same in his/her/their capacity, and that by his/her/their signature(s) on the Petition, the individual or the persons upon behalf of which the individual acted executed the instrument.

Notary Public

BRENDAN V. COTTER
Notary Public, State of New York
No. 02CO6152108
Qualified in Oneida County
My Commission Expires August 28, 2022

# CORPORATE ACKNOWLEDGEMENT

STATE OF NEW YORK )
) SS:
COUNTY OF ONONDAGA )

Eckardt C. Beck, being duly sworn, deposes and says the s(he) is the Chief Executive Officer of 36: CNY IP, Inc. corporation named in the within Application/Petition, that s(he) has read the foregoing affidavit and knows the contents thereof; that the same is true of s(he) own knowledge, except as to those matters therein stated to be alleged upon information and belief, and as to those matters s(he) believes it to be true.

Applicant Signature

Subscribed to me before this 27th day
Of August, 2019

Notary Public

BRENDAN V. COTTER
Notary Public, State of New York
No. 02CO6152108
Qualified in Oneida County
My Commission Expires August 28, 2022

06/29/16 LB

# TOWN OF MANLIUS
# ZONE CHANGE APPLICATION

1. Name of Person applying for Zone Change 3Gi (Contact: Chris Beck)
   Address of person applying 360 Erie Boulevard East, Syracuse, NY 13202
   Cell Number (315) 269-7767 Phone Number (315) 849-0898
2. Name: (owner of record) of land where Zone Change would occur 3Gi CNYIP Inc.
   Address (owner of record) 360 Erie Boulevard East, Syracuse, NY 13202
   Cell Number (owner of record) _____ Phone Number (315) 849-0898
3. Tax Map Number of property where Zone Change would occur 054.-01-28.1, 054.-01-06.1 54.-01-4.1, &054.-01-02.1
4. Is this property located in a flood hazard area? Yes
   If so, what flood area is the property in it in?
   100-Year Floodplain
5. Present zoning classification of property Residential Agricultural & Industrial
6. Desired zoning classification Industrial
   Reason for Change of Zone (use additional sheets if necessary) Lots to the east, south, and west under common ownership are industrial zoned. A zone change would provide consistent zoning for the parcels in common ownership and would allow for the proposed future use of a container pooling yard and inland port as a natural extension of the CSX rail yard
7. What is lot size? Four (4) parcels totaling 75.7 total acres
8. If the Zone Change is granted, will the use of the property conform to the District regulations as stated in Chapter 155 Article III of the Town of Manlius Municipal Code? Yes
9. Is the property within the protectively zoned area of a housing project authorized under the public housing law? No
10. Is the property within five hundred (500) feet of the boundaries of any city, village, town, county, state park or parkway? Yes
    If yes, please specify The center line of Girden Road is the Town of DeWitt boundary.
11. Is the property within five hundred (500) feet from the boundary of any existing or proposed County or State park or other recreation area, or from the right-of-way of any existing or proposed county or state parkway, thruway, expressway, road or highway, or from the existing or proposed right-of-way of any stream or drainage channel owned by the county or for which the county has established channel lines, or from the existing or proposed boundary of any county or state owned land on which a public building or institution is situated? Yes

If yes, please specify Pine Grove Middle School

12. List the uses of all abutting property Residential properties, the CSX rail yard, a self-storage unit facility, and vacant forested/wetland area.

13. The following must be included with your 12 application packets unless otherwise specified and/or specifically waived by the Town Board:

- An environmental assessment form which can be obtained from the Town Clerk, or an environmental impact statement.
- Copy of a survey of the premises certified by a New York State licensed surveyor.
- Legal description of the premises.
- This application must be signed by both the owner of record of the property and the applicant.

The failure to answer any question on this application, the failure to submit any item as specified or the failure to execute this application will result in a delay in the processing of the application.

36: CNYIP, Inc.

Date 12/17/19 By: Richard C Reed
Applicant 1 CEO

Date _____ _____
Applicant 2

Date _____ _____
Applicant

# TOWN OF MANLIUS

## DISCLOSURE AFFIDAVIT

This affidavit is a part of and must be completed and attached to every application, petition, request submitted for a *site plan, variance, amendment, change of zoning, approval of a plat, exemption from a plat or official map, license* or *permit.*

STATE OF NEW YORK )
) SS:
COUNTY OF ONONDAGA )

I. Eckardt C. Beck being duly sworn, deposes and says that (s) he is:

CEO of 3G: CNYIP, Inc. (Applicant)

(applicant, petitioner, corporation officer, property owner, *etc.)*

II. That deponent has read and is familiar with the provisions of the General Municipal Law, Section 809 which states:

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B. For the purpose of this action an officer or employee shall be deemed to have an interest in the applicant when (s)he, his/her spouse, or their brothers, sisters, parents, children, grandchildren, or the spouse of any of them:

1) is the applicant, or
2) is an officer, director, partner or employee of the applicant, or
3) legally or beneficially owns or controls stock of a corporate applicant or is a member of a partnership or association applicant, or
4) is a party to an agreement with such an applicant, express or implied, whereby (s) he may receive any payment or other benefit, whether or not for services rendered, or contingent upon the favorable approval of such application, petition or request.

C. Ownership of less than five percent (5%) of the stock of a corporation whose stock is listed on the New York or American Stock Exchanges shall not constitute an interest for the purposes of this section.

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-OR-

If a Town of Manlius officer, employee or relative of either as defined in Section 809 General Municipal law has any interest in this application, the full particulars are provided on an attached sheet.

Date: December 17th, 20 19.

Eckardt C. Beck
(Print Name)

(Signature)

36: CNY IP, Inc.
(Entity Name)

Eckardt C. Beck, Chief Executive Officer
By (Officer) (Title)

360 Erie Boulevard East, Syracuse, NY 13202
(Mailing Address of Applicant)

(315) 269-7767
(Telephone Number)

Date: _____, 20_____.

(Print Name)

(Signature)

(Entity Name)

By (Officer) (Title)

(Mailing Address of Applicant)

(Telephone Number)

## ACKNOWLEDGEMENTS

STATE OF NEW YORK )
) SS:
COUNTY OF ONONDAGA )

On this 17th day of December in the year 20 19, before me, the undersigned, a notary public in and for said state, personally appeared Eckardt C. Beck, _____, and _____ personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within Petition and acknowledged to me the he/she/they executed the same in his/her/their capacity, and that by his/her/their signature(s) on the Petition, the individual or the persons upon behalf of which the individual acted executed the instrument.

Notary Public

BRENDAN V. COTTER
Notary Public, State of New York
No. 02CO6152108
Qualified in Oneida County
My Commission Expires August 28, 2022

# CORPORATE ACKNOWLEDGEMENT

STATE OF NEW YORK )
) SS:
COUNTY OF ONONDAGA )

Eckardt C. Beck, being duly sworn, deposes and says the s(he) is the Chief Executive Officer of 3G: CNYIP, Inc. corporation named in the within Application/Petition, that s(he) has read the foregoing affidavit and knows the contents thereof; that the same is true of s(he) own knowledge, except as to those matters therein stated to be alleged upon information and belief, and as to those matters s(he) believes it to be true.

Eckardt C Beck
Applicant Signature

Subscribed to me before this 17th day
Of December, 2019

Notary Public

BRENDAN V. COTTER
Notary Public, State of New York
No. 02CO6152108
Qualified in Oneida County
My Commission Expires August 28, 2022

06/29/16 LB

Lehr Land Surveyors D.P.C.
Land Surveying & Planning

Suite 6
116 Salina Street
Liverpool, New York 13088
315-451-3333
FAX: 315-451-3392
EMAIL: info@lehrlandsurveyors.com

December 09, 2019


**Surveyor's Description**
Tax Id: 54-1-2.1
Town of Manlius

RE: Minoa-Kirkville Road

**ALL THAT TRACT OR PARCEL OF LAND** situate in the Town of Manlius, County of Onondaga and State of New York and being Lot No.33 in said Town, and being more particularly described as follows:

**BEGINNING** at a point in the southerly road boundary of Minoa – Kirkville Road, said point being easterly a distance of 200.32' from the easterly road boundary of Girden Road, said point also being the northeasterly corner of land now or formerly owned by Niagara Mohawk Power Corporation as recorded in the Onondaga County Clerk's Office in Book 2225 of Deeds, Page 384;

**thence S 88º44'02" E**., along the southerly road boundary of said Minoa – Kirkville Road, a distance of **112.84 feet** to an angle point in said road boundary;

**thence S 79º30'00" E**., continuing along the southerly road boundary of said Minoa – Kirkville Road, a distance of **223.73 feet** to a point;

**thence S 0º47'08" W.,** a distance of **2263.50 feet** to the northerly line of lands now or formerly owned by CSX Transportation Inc.;

**thence N 89º11'49" W**., along the northerly line of said CSX Transportation Inc., a distance of **333.36 feet** to the easterly line of said Niagara Mohawk Power Corporation;

**thence N 0º47'08" E**., along the easterly line of said Niagara Mohawk Power Corporation, a distance of **2302.10 feet** to the point of beginning;

Containing 17.517 acres or 763,021 square feet of land more or less.

The hereinbefore described parcel of land is subject to any and all easements and/or rights-of-ways of record.

Lehr Land Surveyors D.P.C.
Land Surveying & Planning

Suite 6
116 Salina Street
Liverpool, New York 13088
315-451-3333
FAX: 315-451-3392
EMAIL: info@lehrlandsurveyors.com

December 09, 2019


**Surveyor's Description**
Tax Id: 54-1-4.1
Town of Manlius

RE: Minoa-Kirkville Road

**ALL THAT TRACT OR PARCEL OF LAND** situate in the Town of Manlius, County of Onondaga and State of New York and being Lot No.33 in said Town, and being more particularly described as follows:

**BEGINNING** at a point in the southerly road boundary of Minoa – Kirkville Road, said point being easterly a distance of 536.89' from the easterly road boundary of Girden Road;

**thence S 79º30'00" E**., along the southerly road boundary of said Minoa – Kirkville Road, a distance of **405.21 feet** to an angle point in said road boundary;

**thence S 63º47'03" E**., continuing along the southerly road boundary of said Minoa – Kirkville Road, a distance of **22.75 feet** to its intersection with the westerly line of lands now or formerly owned by Michael F. Deecher and Carolyn J. Mulligan as recorded in the Onondaga County Clerk's Office in Book 3298 of Deeds, Page 6;

**thence S 1º32'20" W.,** along the westerly line of said Deecher and Mulligan, a distance of **704.80 feet** to a point;

**thence N 88º27'40" W**., a distance of **23.16 feet** to a point;

**thence S 0º14'19" W**., a distance of **1481.12 feet** to its intersection with the northerly line of lands now or formerly owned by CSX Transportation Inc.;

**thence N 89º11'49" W.,** along the northerly line of said CSX Transportation Inc., a distance of **401.67 feet** to a point;

**thence N 0º47'08" E.,** a distance of **2263.50 feet** to the point of beginning.

Containing 20.538 acres or 894,629 square feet of land more or less.

The hereinbefore described parcel of land is subject to any and all easements and/or rights-of-ways of record.

Lehr Land Surveyors D.P.C.
Land Surveying & Planning

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116 Salina Street
Liverpool, New York 13088
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FAX: 315-451-3392
EMAIL: info@lehrlandsurveyors.com

December 09, 2019


**Surveyor's Description**
Tax Id: 54-1-6.1
Town of Manlius

RE: Minoa-Kirkville Road

**ALL THAT TRACT OR PARCEL OF LAND** situate in the Town of Manlius, County of Onondaga and State of New York and being Lot No.33 in said Town, and being more particularly described as follows:

**BEGINNING** at a point in the southerly road boundary of Minoa – Kirkville Road, said point being the northeasterly corner of property now or formerly owned by Calvin O. Goodrich, Trustee of the Goodrich Living Trust as recorded in the Onondaga County Clerk's Office in Book 5407 of Deeds, Page 928;

**thence S 78º46'12" E**., along the southerly road boundary of said Minoa – Kirkville Road, a distance of **353.26 feet** to an angle point in said road boundary;

**thence S 80º38'21" E**., continuing along the southerly road boundary of said Minoa – Kirkville Road, a distance of **226.01 feet** to its intersection with the westerly line of lands now or formerly owned by Anita G. Santaro as recorded in the Onondaga County Clerk's Office in Book 3959 of Deeds, Page 323;

**thence S 0º14'19" W.,** along the westerly line of said Santaro and the westerly line of lands now or formerly owned by Drive-In Self Storage Manlius, LLC as recorded in the Onondaga County Clerk's Office in Book 4759 of Deeds, Page 310 a distance of **2042.62 feet** to a its intersection with the northerly line of lands now or formerly owned by the CSX Transportation Inc.;

**thence N 89º11'49" W.,** along the northerly line of said CSX Transportation Inc., a distance of **879.74 feet** to a point;

**thence N 0º14'19" E.,** a distance of **1481.12 feet** to a point;

**thence S 88º27'40" E.,** partially along the lands now or formerly owned by Michael F. Deecher and Carolyn J. Mulligan as recorded in the Onondaga County Clerk's Office in Book 3298 of Deeds, Page 6, a distance of **196.02 feet** to a point;

**thence N 1º32'20" E.,** along the easterly line of said Deecher and Mulligan, a distance of **508.83 feet** to its intersection with the southerly line of said Goodrich;

**thence S 79º30'00" E.,** along the southerly line of said Goodrich, a distance of **100.00 feet** to a point;

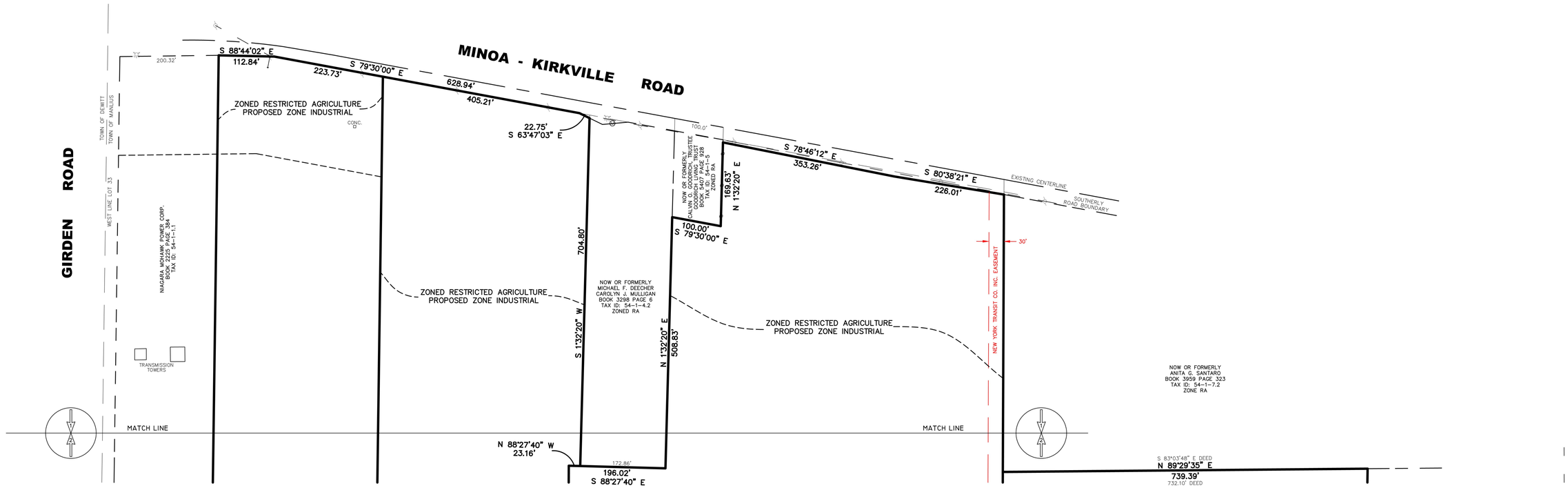
**thence N 1º32'20" E.,** along the easterly line of said Goodrich, a distance of **169.63 feet** to the point of beginning.

Containing 39.103 acres or 1,703,313 square feet of land more or less.

The hereinbefore described parcel of land is subject to any and all easements and/or rights-of-ways of record.

LEGEND:

- UTILITY POLE
- GUY WIRE
- OVERHEAD WIRES
- MANHOLE
- FIRE HYDRANT
- CHAIN LINK FENCE




# ZONE CHANGE MAP
# LANDS OF
# 3GI CNYIP, INC.

SHEET 1 OF 2

Only survey maps with the Land Surveyor's embossed seal are genuine true and correct copies of the surveyor's original work and opinion.

Unauthorized alteration or addition to a survey map bearing a licensed land surveyor's seal is a violation of section 7209, sub-division 2, of the New York State Education Law.

Certifications indicated hereon shall apply only to the persons for whom this survey was performed and on their behalf to the title insurance company governing agency and lending institution and to the assignees of the lending institution and/or subsequent owners.

This map may not be used in connection with a "Survey Affidavit" or similar document, statement or mechanism to obtain insurance for any subsequent or future grantees.

Survey prepared without the benefit of an abstract.

Location surveys do not include the staking of the property corners except as shown.

| No. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |


LEHR
LAND SURVEYORS D.P.C.
116 SALINA STREET – SUITE 6
LIVERPOOL, NEW YORK 13088
315-451-3333
info@lehrlandsurveyors.com


I HEREBY CERTIFY THAT THIS IS AN ACCURATE MAP MADE FROM AN ACTUAL SURVEY.

LICENSED LAND SURVEYOR
DOUGLAS R. LEHR NYSLS 49223

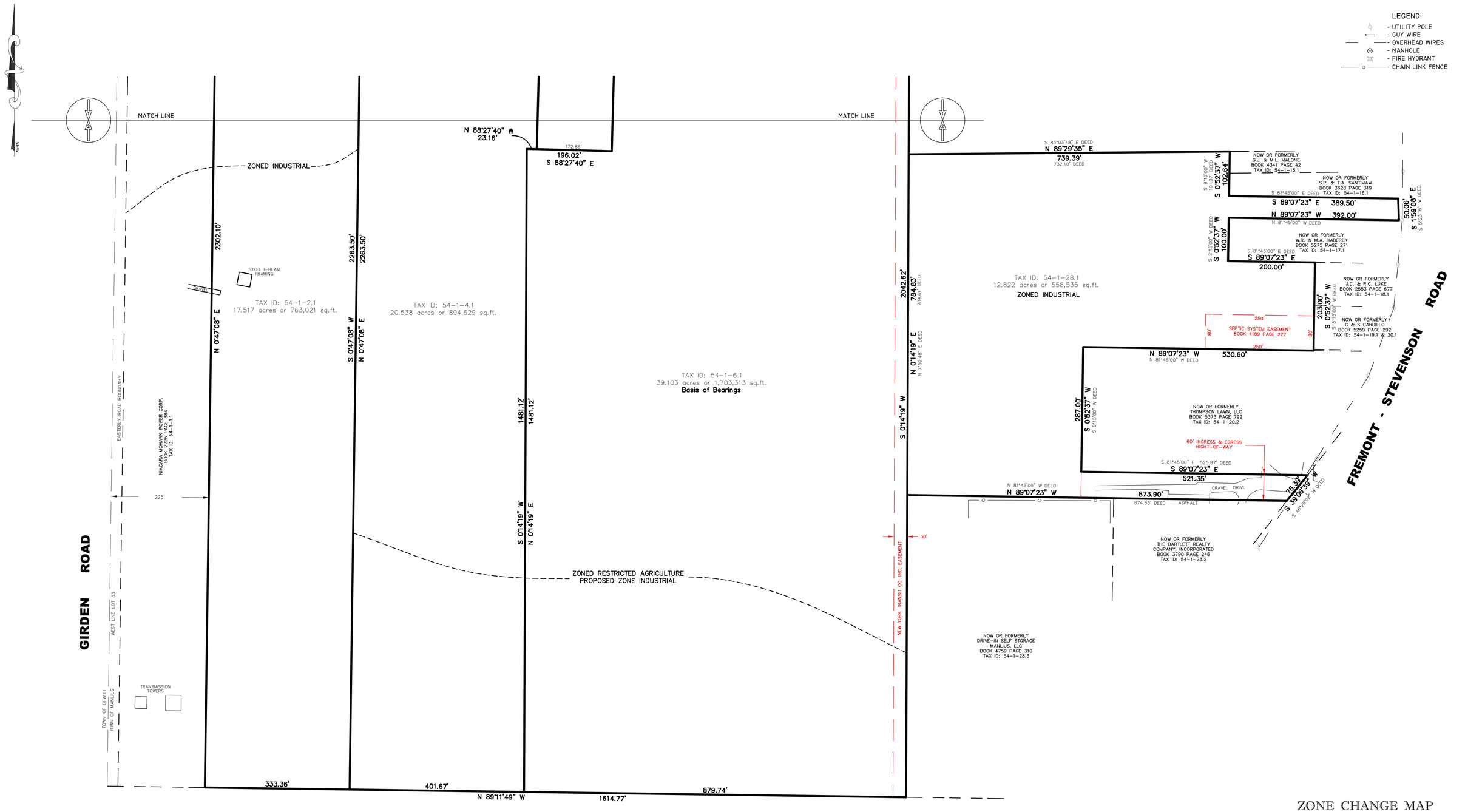
LOCATION SURVEY ON PART OF LOT No.33.
TOWN OF MANLIUS

KNOWN AS MINOA–KIRKVILLE ROAD, TOWN OF MANLIUS,
COUNTY OF ONONDAGA, NEW YORK

| FIELD DATE: | MAP DATE: | SCALE: | DRAWN BY: |
|---|---|---|---|
| 26 NOV 2019 | 3 DEC 2019 | 1"=100' | WJH |

REVISIONS:

DRAWING No. 19–J–67
*D* *1*




# ZONE CHANGE MAP
# LANDS OF
# 3GI CNYIP, INC.

SHEET 2 OF 2

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Survey prepared without the benefit of an abstract.

Location surveys do not include the staking of the property corners except as shown.

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LEHR
LAND SURVEYORS D.P.C.
116 SALINA STREET – SUITE 6
LIVERPOOL, NEW YORK 13088
315-451-3333
info@lehrlandsurveyors.com


I HEREBY CERTIFY THAT THIS IS AN ACCURATE MAP MADE FROM AN ACTUAL SURVEY.

LICENSED LAND SURVEYOR
DOUGLAS R. LEHR NYSLS 49223

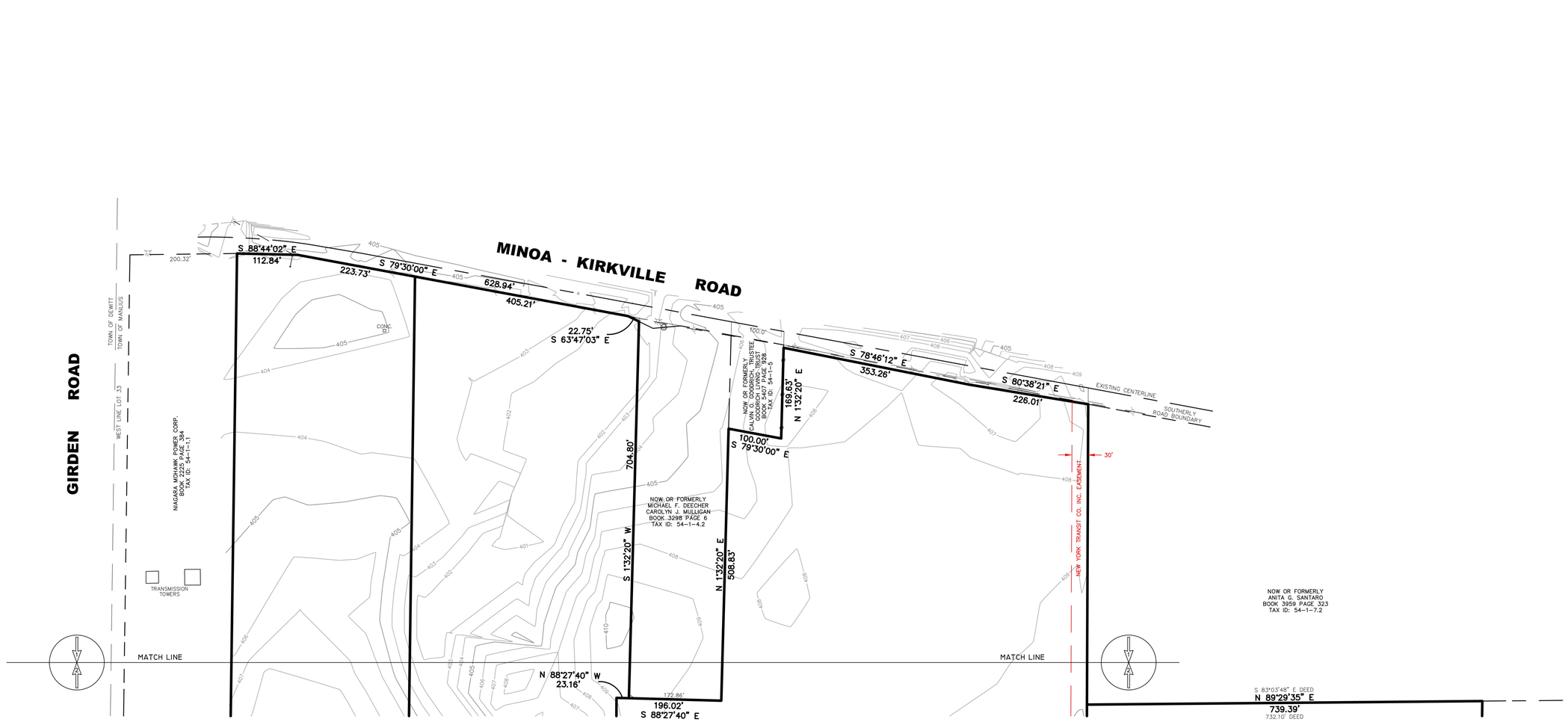
LOCATION SURVEY ON PART OF LOT No.33.
TOWN OF MANLIUS

KNOWN AS MINOA-KIRKVILLE ROAD, TOWN OF MANLIUS, COUNTY OF ONONDAGA, NEW YORK

| FIELD DATE: 26 NOV 2019 | MAP DATE: 3 DEC 2019 | SCALE: 1"=100' | DRAWN BY: WJH |
|---|---|---|---|
| REVISIONS: | | DRAWING No. 19-J-67 *D* *1* | |

LEGEND:

- UTILITY POLE
- GUY WIRE
- OVERHEAD WIRES
- MANHOLE
- FIRE HYDRANT
- CHAIN LINK FENCE




# TOPOGRAPHICAL MAP
# LANDS OF
# 3GI CNYIP, INC.

SHEET 1 OF 2

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Elevation and Contours based on North American Datum of 1988 (NAVD88).

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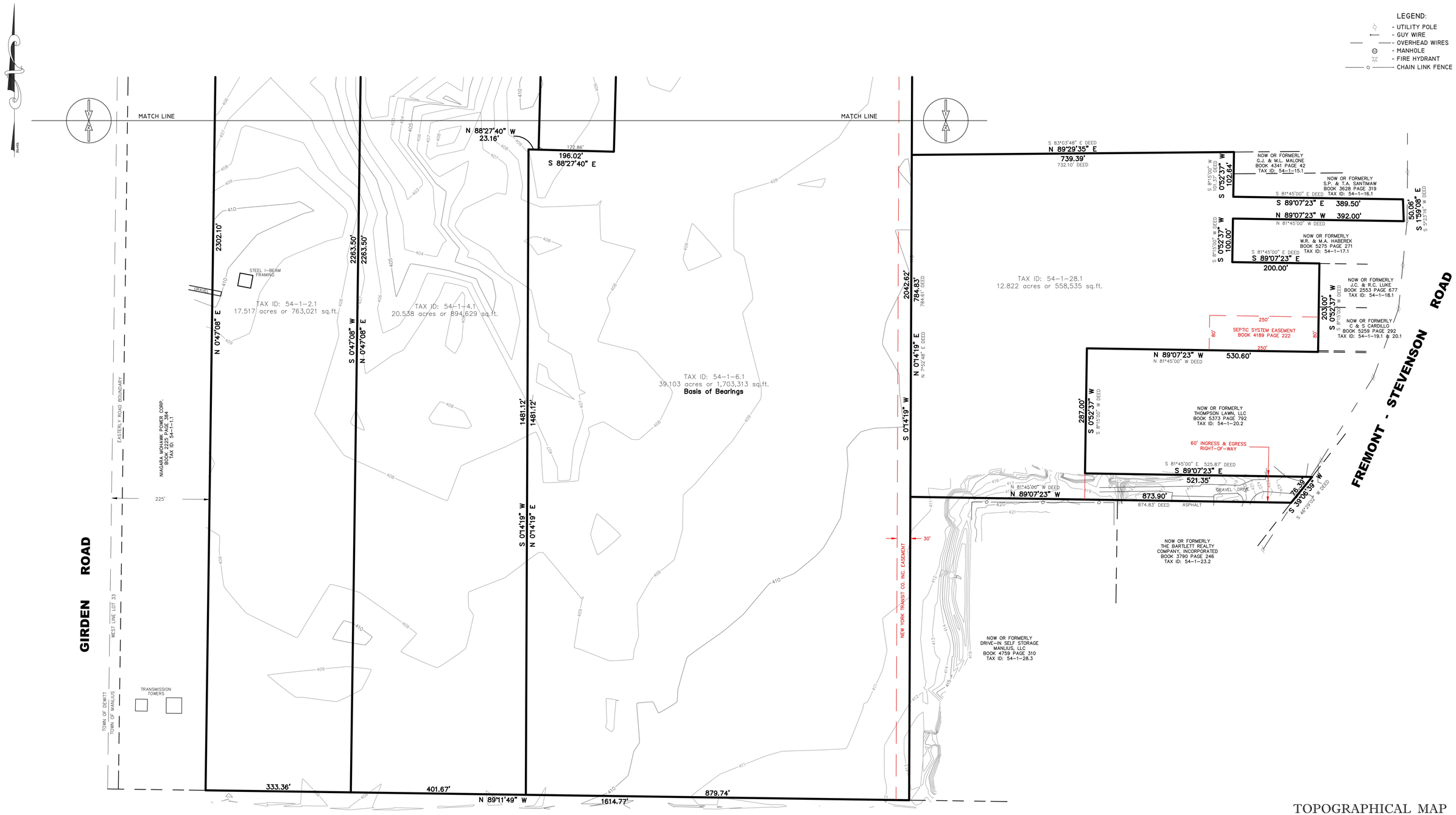


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REVISIONS:

DRAWING No. 19-J-67
*D* *1*

# *Short Environmental Assessment Form*
## *Part 1 - Project Information*

**Instructions for Completing**

**Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1.** Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

**Part 1 – Project and Sponsor Information**

Name of Action or Project:
3Gi - Central New York Inland Port

Project Location (describe, and attach a location map):
Town of Manlius - Industrial corridor adjacent to the CSX Dewitt train yard

Brief Description of Proposed Action:
The project will involve the zone change of three properties adjacent to the CSX rail yard. The construction includes a 2-acre gravel container pooling yard and a 'short term' access road off of Fremont Road to the containment yard. This will also include the construction of a +/- 700 SF modular office building and a truck scale for cargo monitoring.

| Name of Applicant or Sponsor: | Telephone: 315-269-7767 |
|---|---|
| 3Gi-CNYIP (Contact: Chris Beck) | E-Mail: ebeck@synapsellc.com |

Address:
360 Erie Blvd East

| City/PO: | State: | Zip Code: |
|---|---|---|
| Syracuse | NY | 13202 |

| | NO | YES |
|---|---|---|
| 1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2. | ☑ | ☐ |
| 2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval: Zone Change - Town Board of Manlius, Site Plan Approval - Manlius Planning Board, Wetland Crossing Permit - DEC, SOCPA Approval | ☐ | ☑ |

3. a. Total acreage of the site of the proposed action? 92 acres
   b. Total acreage to be physically disturbed? 3.5 acres
   c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 92 acres

4. Check all land uses that occur on, are adjoining or near the proposed action:

5. ☐ Urban ☑ Rural (non-agriculture) ☑ Industrial ☐ Commercial ☑ Residential (suburban)
   ☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other(Specify):
   ☐ Parkland

| | NO | YES | N/A |
|---|---|---|---|
| 5. Is the proposed action, | | | |
| a. A permitted use under the zoning regulations? ( w/ proposed zone change to industrial) | ☐ | ☑ | ☐ |
| b. Consistent with the adopted comprehensive plan? | ☐ | ☐ | ☑ |

| | NO | YES |
|---|---|---|
| 6. Is the proposed action consistent with the predominant character of the existing built or natural landscape? | ☐ | ☑ |

| | NO | YES |
|---|---|---|
| 7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____ | ☑ | ☐ |

| | NO | YES |
|---|---|---|
| 8. a. Will the proposed action result in a substantial increase in traffic above present levels? | ☑ | ☐ |
| b. Are public transportation services available at or near the site of the proposed action? | ☑ | ☐ |
| c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action? | ☑ | ☐ |

| | NO | YES |
|---|---|---|
| 9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: _____ | ☐ | ☑ |

| | NO | YES |
|---|---|---|
| 10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____ | ☐ | ☑ |

| | NO | YES |
|---|---|---|
| 11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____ | ☑ | ☐ |

| | NO | YES |
|---|---|---|
| 12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? | ☑ | ☐ |
| b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? | ☑ | ☐ |

| | NO | YES |
|---|---|---|
| 13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency? | ☐ | ☑ |
| b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? | ☐ | ☑ |
| If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ 0.3 acre impact to jurisdictional wetland to create access to Fremont Road. | | |

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:

☐ Shoreline ☑ Forest ☑ Agricultural/grasslands ☐ Early mid-successional

☑ Wetland ☐ Urban ☐ Suburban

| | NO | YES |
|---|---|---|
| 15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered? | ☐ | ☑ |
| 16. Is the project site located in the 100-year flood plan?<br>overall project site is within 100yr flood<br>Phase 1 project area is outside | ☐ | ☑ |
| 17. Will the proposed action create storm water discharge, either from point or non-point sources?<br>If Yes, | ☐ | ☑ |
| a. Will storm water discharges flow to adjacent properties? | ☑ | ☐ |
| b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)?<br>If Yes, briefly describe:<br>Mitigated stormwater runoff will discharge to existing wetland at rates less than existing conditions | ☑ | ☐ |
| 18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)?<br>If Yes, explain the purpose and size of the impoundment: | ☑ | ☐ |
| 19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility?<br>If Yes, describe: | ☑ | ☐ |
| 20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste?<br>If Yes, describe: | ☑ | ☐ |

**I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE**

Applicant/sponsor/name: MATTHEW R NAPIERALA P.E ENGINEER AGENT FOR OWNER Date: 17 DECEMBER 2019

Signature: [signature] Title: MANAGING ENGINEER

PRINT FORM

# ENVIRONMENTAL IMPACT STATEMENT REPORT

For:

## CENTRAL NEW YORK INLAND PORT
### TOWN OF MANLIUS, NY

Prepared for:

**3Gi**
360 ERIE BOULEVARD EAST
SYRACUSE, NY 13202

Prepared by:

NAPIERALA CONSULTING
PROFESSIONAL ENGINEER, P.C.
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August, 2019

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# *1.0 PROJECT SUMMARY*

## 1.1 BACKGROUND

3Gi CNYIP Inc. (3Gi) is an intermodal infrastructure company committed to advancing global opportunities for importing and exporting goods. The goal of 3Gi is to embrace Third Generation Intermodal (3Gi) concepts and apply them to infrastructure projects that advance the foundation for the United States to compete in the global economy. 3Gi is the leading private entity responsible for the development of the Central New York Inland Port (CNYIP), which will offer increased opportunities for importing and exporting by rail in the Central New York region. The CNYIP will accomplish this by providing infrastructure for dedicated international intermodal service to and from the Port Authority of New York and New Jersey (PANYNJ). By increasing the amount of materials that are transported via rail relative to the amount transported by truck, the project will contribute to more efficient use of energy and reduction in greenhouse gas emissions. The 3Gi CNYIP business model will minimize costs and shipping times, maximize profits, and enhance the import/export markets in NYS.

## 1.2 PROJECT LOCATION

3Gi's Central New York Inland Port will be integrated into the existing Dewitt Rail Yard located in the Town of Manlius, Onondaga County, New York. The Dewitt Rail Yard is operated by CSX, a Class 1 Freight Railroad. 3Gi owns/controls approximately 200 acres of property that is adjacent to the existing rail yard. The subject property is located to the south of Kirkville Road between Girden Road and Fremont Road. This property will be utilized to expand into and facilitate the operations of an international inland port. The property is not only a part of the NYS Transportation Master Plan, but is also within the federally designated National Highway System Intermodal Corridor, and is therefore eligible for federal funding.

The Class 1 Rail that the CNYIP will be located on runs from the PANYNJ and Boston west to Cleveland. This is known as the Water Level Route because it runs parallel with the Hudson River and Erie Canal and thus provides minimal elevation changes. On the Water Level Route, also known as the Main Line, average travel speeds can be increased and international cargo containers can be stacked two-high, optimizing route efficiency.

Figure 1. Location Map of Project Site

## 1.3 BUSINESS RELATIONSHIPS

### 1.3.a INTRANSIT CONTAINER INC. (ICI)

3Gi has a strategic business relationship with Intransit Container, Inc., (ICI), a major northeast inland port owner/operator located in Worcester, Massachusetts, who will be the approved private operating entity for 3Gi. Presently, ICI's Port of Worcester receives more international containers as imports from the PANYNJ than it returns as exports. At the CNYIP, 3Gi plans to address the aggregation and coordination of the regional export market, with a focus on NYS agriculture, one of the region's most valuable resources. 3Gi, in business with ICI, will provide logistic services that match international import containers with exporters who need empty containers.

Coordinating importers and exporters to take full advantage of round trip empty international containers is the primary business opportunity filled by 3Gi CNYIP and ICI Port of Worcester. Currently, empty international containers are carried on the trains but are not serviced at the Dewitt Rail Yard. Thus, regional importers and exporters are not serviced, resulting in lost revenue. Importer's empty containers are available for exporters at a reduced cost to both. For exporters, availability of empty containers is a significant factor for cost effective transportation by train to the PANYNJ. For importers, the cost saving benefit is realized by eliminating one-way empty container returns to the PANYNJ.

Together, 3Gi and ICI fill a need for regional importers and exporters to bring their goods to and receive goods from international markets in the more cost-effective and fuel-efficient manner. This business relationship will allow for significant increases in volume of both imports and exports, particularly those of NYS agriculture and manufactured goods. Given that ICI currently receives more imports than exports and 3Gi's Dewitt CNYIP will expand exports, increased profitability stands to reason.

### 1.3.b NYS ENERGY RESEARCH AND DEVELOPMENT AUTHORITY (NYSERDA)

The New York State Energy Research and Development Authority (NYSERDA) is a NYS program that promotes energy efficiency and the use of renewable energy resources. The overall goal of the program is to reduce greenhouse gas emissions and to accelerate economic growth. NYSERDA partners with businesses such as 3Gi in order to cooperatively develop and foster conditions that will attract private sector capital investment while enabling New York communities to benefit from improved energy efficiency. Transportation by rail is a much more efficient form of transportation when compared to trucking and therefore presents a great opportunity to reduce statewide greenhouse gas emissions, making the project an ideal candidate for partnership with NYSERDA.

## 1.4 ECONOMIC DRIVERS & ADVANTAGES

The cost of transporting goods by truck has grown significantly, as well as increased limitations of the trucking industry in its practices and overall capacity. Reliance on trucking for transportation of goods over past decades has proven to be less efficient, costlier, and has negative impacts on highway and transportation maintenance and safety. This issue is further compounded by a shortage of skilled drivers. The effective use of rail in US shipping will increase profitability and improve US economics.

There are major challenges associated with the recent opening of the Panama Canal Third Lock and arrival of large capacity Panamax ships at the PANYNJ. First and foremost is the ever-increasing congestion of trucks in queue for unloading and loading. The CNYIP addresses this challenge by moving international containers that are currently transported by truck to the more efficient mode of transportation: trains. International containers can be directly loaded off the ships onto CSX rail for inland distribution, thus eliminating the need for CNY importers and exporters to truck to the PANYNJ.

The second challenge that is addressed by the CNYIP is the diminishing availability of real estate within reasonable proximity to the PANYNJ. A widespread increase in lease rates on the limited warehousing space in the greater NYC area has created a demand for land within reasonable travel distance to the PANYNJ. The Dewitt Rail Yard is the first stop for CSX on the Main Line and therefore only a few hours from the PANYNJ. The availability of property within reasonable travel time of the rail yard provides businesses with the opportunity to locate around the CNYIP, making it a magnet for both major importers and exporters.

In 2018, New York State funded $19 million to CSX to make improvements to the DeWitt Rail Yard in order to allow for international container service, which will commence in September of 2019. The commencement of

international container service at the DeWitt Rail Yard equates to an opening of international markets to importers in the CNY region. Additionally, the connection with the Port of Montreal will open up the northern trade market. The ability to reduce transportation costs by switching from trucking to rail will result in major cost savings to both importers and exporters in the area. Agricultural exporters will have access to a larger market at a lower cost, resulting in growth within the industry. By expanding the annual potential to handle upwards of 40,000 to 50,000 international shipping containers by rail directly to and from the PANYNJ, the project will result in improved capacity, profitability, regional growth, public safety, and environmental benefits from reduced $CO_2$.

## 1.5 FACILITY OPERATIONS AND PHASING

The development of the on-site operations of the facility will happen in three major phases which will happen semi-concurrently. The first step is the establishment of a container yard for all CSX international containers. CSX would load and unload the double-stack rail cars which 3Gi would immediately dray from CSX to the CNYIP where container processing, customs clearance (if applicable) and coordination between 3Gi and the steamship lines would occur. Truck access to the container yard during this phase will be via Temp Road 1off of Fremont Road.

The second phase includes the development of on-site warehousing for the short term aggregation of products. This phase will also include the construction of Perm Road 1 or Perm Road 2, thus directing traffic off of Fremont Road and re-routing it through the 3Gi subject site onto Girden Road. An easement currently exists across the property to the west of the subject site adjacent to Girden Road which would serve as the location for Perm Road 1. The location of Perm Road 2 would be across the northern part of the wetland areas to the west of the subject site.

The third phase would involve the laying of track inside the CNYIP owned property to allow for CSX to switch the rail cars into the 3Gi operated container yard. This method provides the ultimate control for 3Gi's customers, allowing control of free time, Free Trade Zones, demurrage, customs clearance, chassis pool, reefer plugs-ins, trans-load opportunities and warehouse facilities. These are generally services CSX does NOT provide. 3Gi would have control of the export loading allowing the ability to aggregate large number of containers to be shipped on the same train, a benefit for volume exporters.

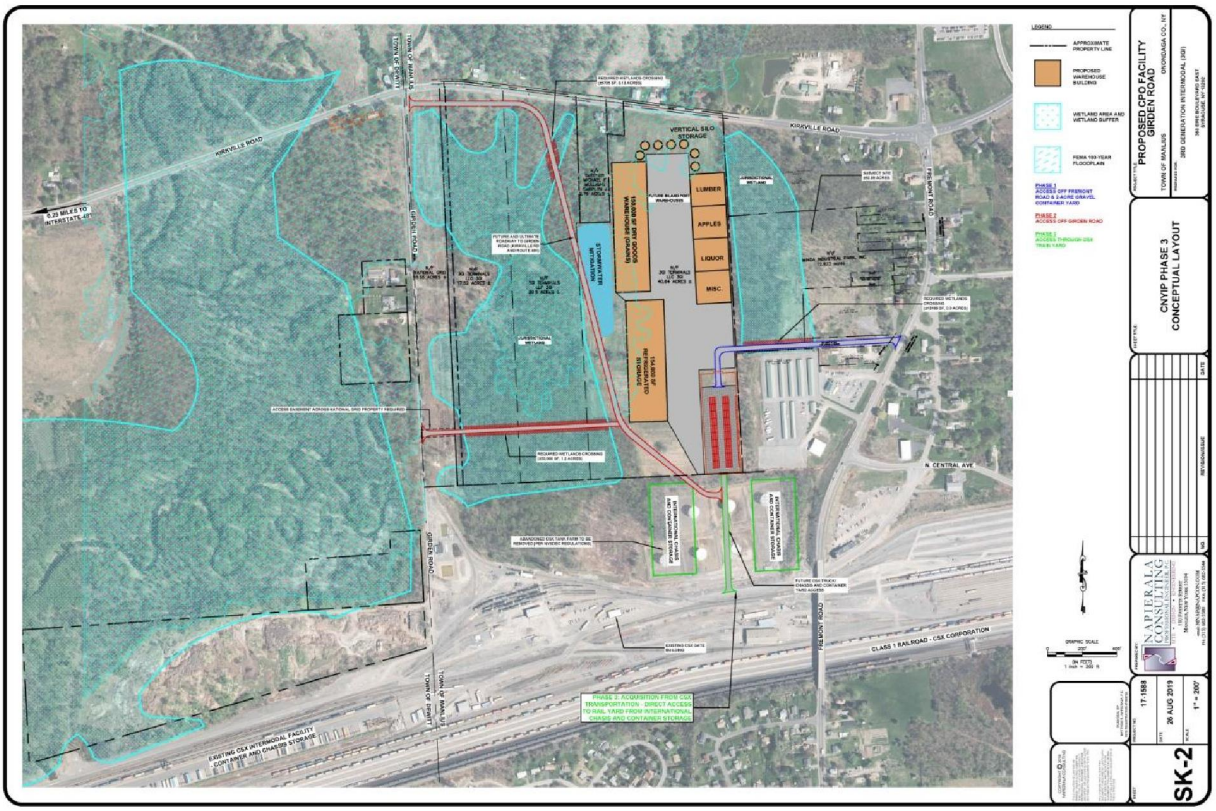


Figure 2. Conceptual Layout of the CNYIP Full Build-Out

A state of the art tracking system will be implemented in order to maximize the movement of containers within the marketplace. This will enable point-to-point control of the containers and the chassis through a GPS locating system. The technology will enable 3Gi to manage delays and other problems along the supply chain where historically chasing information has been time-consuming and expensive. It will also allow for real-time tracking of important information such as temperature control within the container. Effectively matching up importers and exporters in the New England area will help coordinate empty cargo containers from numerous shipping lines moved between the CNYIP, Worchester, and the ships. By utilizing a tracking system to more effectively coordinate cargo movement between CNY and the global marketplace, 3Gi can substantially help importers and exporters who currently pay for a one-way empty container.

By providing short term warehouse storage, primarily supporting agriculture with climate control facilities, 3Gi will maximize the ability to load a train which will also allow it to create a chain of custody from the shipper to the ultimate customer. A comprehensive survey of importers and trade associations within the regional market was performed which concluded that all were supportive of warehousing facilities that would serve as temporary aggregation of product due to the potential of major cost of sale savings.

Terminal overhead, personnel, security, paving, lighting, yard equipment, reefer plugs, a terminal operating computer system, etc., will all be required to provide the services that CNY importers and exporters will expect, as well as the shipping companies, which strictly monitor all container movement to and from the PANYNJ. These operational elements will be provided at the 3Gi CNYIP by ICI, which has proven systems and capacity.

Other responsibilities of 3Gi that will develop concurrently with the CNYIP include, but are not limited to:

• Coordination of all aspects of container logistics, rail/trucking/warehouse container handling;

• Management of gate, ocean manifests, freight releases, customs release, bookings, trucking delivery orders and reconciliation;

• Provide a customs bonded facility and free trade zone;

• Secure gate operation;

• Chassis pool operations;

• Manage notifications from steamship lines, importers, trucker notifications of cargo status;

• Security and storage;

• Direct sales and marketing; and

• Data collection from gate operations to drive market response and growth.

## 1.6 PROJECT PERMITTING

The Container Pooling Operations (CPO) is the first phase of the CNYIP, facilitating its ability to service the increasing regional export opportunities and aggregate exports in order to maximize cargo trains with a minimum of 50 to 100 international export containers. The project will consist of up to a 2-acre pad to provide storage of empty containers that will become available for regional international export opportunities. 3Gi expects that the CPO pad will continue to expand in 2-acre increments over time.

Phase II will be the development of on-site warehousing for the short term aggregation of products. This phase will also include the construction of an access road onto Girden Road, thus directing traffic off of Fremont Road and re-routing it through the 3Gi subject site.

The project will be phased and permitted on a local and state level through the Town of Manlius for Site Plan approval and through New York State for stormwater, floodplain, and wetland mitigation.

## 1.7 POTENTIAL BENEFITS

The following is a summary of the public benefits that will result by reducing the number of tractor trailers from New York State highways and conversely shipping by rail over an assumed 30-year service life of the project:

1. Highway and Bridge Avoidance Costs: The reduction of the number of tractor trailers on the highways will result in savings of tax dollars used to maintain public roads and bridges over the service life of the project.
2. Highway Congestion Avoidance: A reduction in the number of tractor trailers on New York State Highways will also result in more lane availability and space for motorists and a reduction of congestion.
3. Improved Highway Safety: By reducing the number of tractor trailer traveling on New York State Highways, it is anticipated that there will be a corresponding reduction in the number of accidents with motorists.
4. Noise Pollution Reduction: By reducing the number of tractor trailers on New York Highways, the CNYIP Project will result in a saving to taxpayers through the avoidance of construction noise mitigation structures.
5. Emission Reduction: By reducing the number of tractor trailers on New York State Highways, an avoided emission amount of 1,291 tons of Carbon Dioxide ($CO_2$) will be realized in the first year with a total of 28,368 tons of avoided $CO_2$ over the service life of the project.
6. Fuel Efficiency: Data suggests that rail transportation is approximately four (4) times more efficient than tractor trailers. The conversion to rail achieved by the CNYIP Project will result in a savings of 92,625 gallons of diesel fuel in the first year of the project.

Another major benefit is the potential to reduce pricing through the formation of buying groups. Once a large amount of product is being aggregated for export, a buying group can be formed to work with the major freight companies and syndicates to lower pricing for the exporters in the CNY region. The more product that is aggregated, the more cooperative buying power and influence the buying group will have.

3Gi CNYIP, Inc. commissioned an independent market analysis in July 2012 of CNY importers and exporters to determine the economic benefits for businesses. The data collected includes the following:

- 80% indicated the CNYIP would have a moderate to significant positive impact on their business.
- 53% indicated the increased availability of empty containers and more cost-effective shipping options would have a moderate to significant impact on their export potential.
- 73% indicated that the CNYIP would have moderate to significant job growth and/or retention potential on New York State businesses that import or export.
- 93% indicated they thought the CNYIP would have a moderate to significant positive impact on businesses overall in New York State.

In 2014 and 2015, an additional analysis was conducted by 3Gi CNYIP, Inc. at the request of CSX, to identify importers and exporters in a 50-mile radius. This was done to identify where importers and exporters would match up (by zip code) for container maximization. A total of 176 importers and exporters as well as 35 trade associations were directly visited for input on their actual container volume currently being transported by truck. This sampling alone, tallied up over 20,000 containers being trucked that could convert to rail transportation, saving costs, vehicle miles traveled, and $CO_2$ reduction. Many of these businesses indicated that transportation costs were a significant cost of sales and consideration in their growth potential as well as retaining their business in NYS.

# *2.0 ENVIRONMENTAL CONSIDERATIONS*

## 2.1 IMPACT ON LAND

The proposed project will involve the addition of several acres of impervious area over multiple phases. The impervious area will consist of asphalt pavement, warehouse building area, and crushed stone container pads. The land being developed is at a fairly consistent slope and grass/shrub land cover. The involved construction for the proposed action will not be on slopes of 15% or greater and will not be on land where bedrock is exposed. Through all three of the phases, there will not be more than a 1,000 tons of natural material excavated and removed. This proposed action will not cause increases in erosion around the disturbed area and is not located within a Coastal Erosion hazard area.

### 2.1.a VEGETATION

A majority of the land being developed was previously cleared of all trees as fallow agricultural land and now has a consistent grass cover throughout. A majority of the development will not disturb large amounts of vegetation; however, the access roads into the site from Fremont Road and from Girden Road will involve the clearing of some forested area. These two access roads will also require permitting for the disturbance of land within the 100-year floodplain and DEC freshwater wetlands.

### 2.1.b SOILS

A majority of the soils found on the project site are classified in the NRCS Soil Map as Niagara silt loam, which is in hydrologic soil group C/D. This indicates that the soils present on site are poorly drained if undeveloped. The NRCS Soil map can be viewed in Appendix E.

### 2.1.c GROUNDWATER

The impact on groundwater for this project will be negligible. All improvements are on the surface with no planned sub-surface infrastructure for the development. Boring tests have not been performed to determine the average depth to groundwater across the site. This project will not result in new or additional use of ground water, or have the potential to introduce contaminates to the groundwater.

## 2.2 IMPACT ON GEOLOGIC FEATURES

The proposed action will not result in any modifications or destruction of, or inhibit access to, any unique or unusual land forms. No geologic features are located on the project site.

## 2.3 IMPACT ON SURFACE WATER

There are no open surface waters located on the project site. The closest water body in proximity to the property is Butternut Creek, which is located on the west side of Girden Road. There are currently no plans to develop on the west side of Girden Road; therefore the project will not impact any surface waters.

### 2.3.a FRESHWATER WETLANDS

Freshwater wetlands are located on the western portion of the project site to the immediate east of Girden Road. A Wetland Delineation/Determination Report was prepared in November of 2015 to analyze the types of wetlands present and the extents of their boundaries within the subject site. It was concluded that a wetland/upland woodland complex exists on-site which was confirmed via field work after having been initially identified in the NYSDEC and National Wetlands Inventory Maps. The exact boundaries of the wetland can be viewed in Appendix C**.** The impact to the on-site wetlands will be minimal. Perm Road 1 and Perm Road 2 will both require several smaller wetland crossings. The permitting and location of these crossings will be coordinated with the NYSDEC.

### 2.3.b SOIL EROSION

The soils identified on site, Niagara silt loam, has an erosion factor (k) of 0.49, giving it an above average susceptibility of sheet and rill erosion if left exposed. However, the development of this site is on a relatively flat

area with no steep slopes and no large lawn areas that would be left disturbed for long periods of time. An effective erosion and sediment control plan would minimize any potential for above average erosion on site.

## 2.4 IMPACT ON FLOODING

The northwestern portion of the site is located within the 100-year floodplain according to the National Flood Hazard mapping by FEMA. The only portion of the development which is located in the 100-year floodplain is the access road which connects to Girden Road. A large portion of the site is located within the 500-year floodplain, giving a 0.2% chance of flooding, which does not warrant mitigation through compensatory volume. The floodplain map can be viewed in Appendix F.

## 2.5 IMPACT ON AIR

The development will have a negligible effect on air quality surrounding the site. The only source of emissions on-site will be from the truck traffic through the project site. On a large scale, the increase in shipments by rail will decrease the number of tractor-trailers utilized for cargo transport, and will have a positive effect on overall air quality via a reduction in greenhouse gas emissions.

## 2.6 IMPACT ON PLANTS & ANIMALS

In the area of the proposed action, the Northern Long-Eared Bat is known to inhabit forested ecosystems. Coordination will need to be done with the NYSDEC to ensure that any tree clearing that will be performed for the construction of the access roads will be done at the correct time of the year so as to not disturb any potential hibernacula.

## 2.7 IMPACT ON AGRICULTURAL RESOURCES

There is no impact on any agricultural resources in the proposed area. The proposed site is not an active agricultural field and is not a designated agricultural soil region.

## 2.8 IMPACT ON AESTHETIC RESOURCES

There are no aesthetic resources located on the project site.

## 2.9 IMPACT ON HISTORIC AND ARCHEOLOGICAL RESOURCES

The proposed action does not occur in or adjacent to a historic or archaeological resource.

## 2.10 IMPACT ON OPEN SPACE & RECREATION

The development of this project will not result in the loss of recreational opportunities or a reduction of open space resources as designated in any adopted municipal open space plan.

## 2.11 IMPACT ON CRITICAL ENVIRONMENTAL AREAS

The proposed action is not located within or adjacent to a critical environmental area.

## 2.12 IMPACT ON TRANSPORTATION

Initially, the site will be accessed via Temp Road 1 off of Fremont Road. At the commencement of Phase 2, a main access to the site will be developed off of Girden Road on the south side of Kirkville Road (either Perm Road 1 or Perm Road 2). A traffic impact study has been compiled for the potential traffic volume accessing the site to and from Girden Road off of Kirkville Road. It was concluded that the proposed development will be a minor traffic generator with less than 20 total vehicles entering or exiting during each peak hour. A detailed analysis of the trip generation estimate and distribution can be viewed in Appendix D.

## 2.13 IMPACT ON ENERGY

The proposed action will have a small increase in the use of energy. The main source of energy usage will be from the proposed refrigerated storage warehousing. Additionally, the warehouse buildings and access drives will require necessary pole-mounted and building-mounted site lighting. This will not require a new or upgraded substation and does not require an extension of an energy transmission or supply system. This will not utilize more than 2.5 MWhrs per year of electricity.

## 2.14 IMPACT ON NOISE, ODOR & LIGHT

The proposed action will not result in an increase in sounds or odors, but there will be an increase in outdoor lighting once the project is completed. The foot-candles of the proposed site lighting will not shed onto adjacent properties and will not create sky-glow brighter than existing area conditions; all proposed lighting will be dark-sky compliant.

## 2.15 IMPACT ON HUMAN HEALTH

There will be no impact to human health and will not create any exposure to any sources of contamination.

## 2.16 CONSISTENCY WITH COMMUNITY PLANS

The subject property is currently within an agricultural zoning district. This will need to be changed to an industrial zone to allow for the construction and operation of warehousing. Being that the property is directly adjacent to the CSX rail yard and also that the warehousing being proposed will likely store a large amount of agricultural products, the development of this property into an inland port seems like a very logical step.

## 2.17 CONSISTENCY WITH COMMUNITY CHARACTER

Given the surrounding land usage and the immediate proximity to the CSX rail yard and train tracks, the development of this property into an inland port makes sense from a community character standpoint.

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APPENDIX A
SITE PLANS

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APPENDIX B
SHORT ENVIRONMENTAL ASSESSMENT FORM

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# *Short Environmental Assessment Form*
## *Part 1 - Project Information*

**Instructions for Completing**

**Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1.** Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

**Part 1 – Project and Sponsor Information**

Name of Action or Project:
3Gi - Central New York Inland Port

Project Location (describe, and attach a location map):
Town of Manlius - Industrial corridor adjacent to the CSX Dewitt train yard

Brief Description of Proposed Action:
The project will involve the zone change of three properties adjacent to the CSX rail yard. The construction includes a 2-acre gravel container pooling yard and a 'short term' access road off of Fremont Road to the containment yard. This will also include the construction of a +/- 700 SF modular office building and a truck scale for cargo monitoring.

| Name of Applicant or Sponsor: | Telephone: 315-269-7767 |
|---|---|
| 3Gi-CNYIP (Contact: Chris Beck) | E-Mail: ebeck@synapsellc.com |

Address:
360 Erie Blvd East

| City/PO: | State: | Zip Code: |
|---|---|---|
| Syracuse | NY | 13202 |

| | NO | YES |
|---|---|---|
| 1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2. | ☑ | ☐ |
| 2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval: Zone Change - Town Board of Manlius, Site Plan Approval - Manlius Planning Board, Wetland Crossing Permit - DEC, SOCPA Approval | ☐ | ☑ |

3. a. Total acreage of the site of the proposed action? 92 acres
   b. Total acreage to be physically disturbed? 3.5 acres
   c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 92 acres

4. Check all land uses that occur on, are adjoining or near the proposed action:

5. ☐ Urban ☑ Rural (non-agriculture) ☑ Industrial ☐ Commercial ☑ Residential (suburban)
   ☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other(Specify):
   ☐ Parkland

| | NO | YES | N/A |
|---|---|---|---|
| 5. Is the proposed action, | | | |
| a. A permitted use under the zoning regulations? ( w/ proposed zone change to industrial) | ☐ | ☑ | ☐ |
| b. Consistent with the adopted comprehensive plan? | ☐ | ☐ | ☑ |

| | NO | YES |
|---|---|---|
| 6. Is the proposed action consistent with the predominant character of the existing built or natural landscape? | ☐ | ☑ |

| | NO | YES |
|---|---|---|
| 7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____ | ☑ | ☐ |

| | NO | YES |
|---|---|---|
| 8. a. Will the proposed action result in a substantial increase in traffic above present levels? | ☑ | ☐ |
| b. Are public transportation services available at or near the site of the proposed action? | ☑ | ☐ |
| c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action? | ☑ | ☐ |

| | NO | YES |
|---|---|---|
| 9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: _____ | ☐ | ☑ |

| | NO | YES |
|---|---|---|
| 10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____ | ☐ | ☑ |

| | NO | YES |
|---|---|---|
| 11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____ | ☑ | ☐ |

| | NO | YES |
|---|---|---|
| 12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? | ☑ | ☐ |
| b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? | ☑ | ☐ |

| | NO | YES |
|---|---|---|
| 13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency? | ☐ | ☑ |
| b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? | ☐ | ☑ |
| If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ 0.3 acre impact to jurisdictional wetland to create access to Fremont Road. | | |

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:

☐ Shoreline ☑ Forest ☑ Agricultural/grasslands ☐ Early mid-successional

☑ Wetland ☐ Urban ☐ Suburban

| | NO | YES |
|---|---|---|
| 15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered? | ☐ | ☑ |
| 16. Is the project site located in the 100-year flood plan?<br>overall project site is within 100yr flood<br>Phase 1 project area is outside | ☐ | ☑ |
| 17. Will the proposed action create storm water discharge, either from point or non-point sources?<br>If Yes, | ☐ | ☑ |
| a. Will storm water discharges flow to adjacent properties? | ☑ | ☐ |
| b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)?<br>If Yes, briefly describe:<br>Mitigated stormwater runoff will discharge to existing wetland at rates less than existing conditions | ☑ | ☐ |
| 18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)?<br>If Yes, explain the purpose and size of the impoundment: | ☑ | ☐ |
| 19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility?<br>If Yes, describe: | ☑ | ☐ |
| 20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste?<br>If Yes, describe: | ☑ | ☐ |

**I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE**

Applicant/sponsor/name: MATTHEW R NAPIERALA P.E ENGINEER AGENT FOR OWNER Date: 17 DECEMBER 2019

Signature: [signature] Title: MANAGING ENGINEER

PRINT FORM

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APPENDIX C
WETLAND DELINEATION/DETERMINATION REPORT

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The Central New York Inland Port

# Wetland Delineation/Determination Report for the Central New York Inland Port Dewitt/Manlius

November 30th, 2015

(AES Project #15-0277)

Prepared by:
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Brodhead, WI 53520
(608) 897 - 8641

Submitted to:
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360 Erie BLVB. E.
Syracuse, NY 13202

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# WETLAND DELINEATION/DETERMINATION REPORT

## 1.0 INTRODUCTION

Applied Ecological Services, Inc. (AES) staff conducted a wetland delineation/determination on approximately 90 acres of land on September 22 and 23, 2015. The site is located at 43.07586 North latitude and 76.03483 West longitude in Syracuse, New York (Figure 1). This report locates a large forested wetland complex in the western side of the parcel, a smaller forested wetland complex on the east side of the parcel and what has been determined to be interior fallow agricultural field wetlands. The delineation is based on AES' best professional judgment and our understanding and interpretation of the *Corps of Engineers Wetland Delineation Manual* (1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (2012). No data points were collected in the fallow fields, but vegetation conditions suggests most of the fallow agricultural field areas will meet the definition of wetland. The lead investigator, Dr. John L. Larson has a Ph.D degree in biology with emphasis on wetlands ecology and has conducted over 300 wetland delineations in the past 25 years Dr. Larson also has taken 2 day and 5 day wetland delineating/training courses and is a Certified Wetland Specialist (CWS) in Lake County, Illinois. Ben Zimmerman and Mike McGraw as well as other AES staff assisted in the wetland delineation.

## 2.0 REGULATORY DEFINITIONS

**Waters of the United States**

"Waters of the United States" (WOTUS) are within the jurisdiction of the U.S. Army Corps of Engineers under the Clean Water Act, 1972. WOTUS is a broad term that includes territorial seas or waters that are used or could be used for interstate commerce. The WOTUS designation includes wetlands, ponds, lakes, rivers, tributary streams (including intermittent streams), mud flats, sloughs, and wet meadows. A "Traditional Navigable Water" (TNW) is a navigable water of the U.S. subject to the ebb and flow of the tide and/or are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce (33 CFR 329.4). According to the June 5, 2007, Rapanos guidance document, a "tributary" is a natural, man-altered, or man-made water body that carries flow directly or indirectly into TNW. The Rapanos document further defines a "Relatively Permanent Water" (RPW) as a water body (i.e. tributary) with year round flow or at least seasonally (e.g. typically 3 months) continuous flow. A non-RPW is a water body (i.e. tributary) that does not have seasonally continuous flow. Easily traceable underground connections such as drain tiles and pipes can serve as sufficient hydrologic connections for a body of water to be considered a tributary to a WOTUS. A specific, detailed definition of WOTUS can be found in the Federal Register (33 CFR 328.3).

**Wetlands**

Wetlands are areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. A wetland type that can sometimes be problematic is Farmed Wetlands (FW), and another wetland type that may or may not be regulated by Federal, State, or local Government Agencies are Isolated Wetlands.

Farmed Wetlands (FW) are a type of jurisdictional wetlands that were drained, dredged, filled, leveled, or otherwise manipulated before December 23, 1985, to make production of an agricultural commodity possible, but are often wet enough to still be valuable wetland habitat subject to Swampbuster and Clean Water Act Section 404, 1985. Farmed wetland determinations use the procedures outlined in the National Food Security Act Manual (NFSAM) and are similar to the 1987 Corps Wetland Delineation Manual methodology for atypical wetlands.

Isolated Wetlands are a type of wetlands that generally have no surface water connections to other aquatic resources and are not regulated by the U.S. Army Corps of Engineers Clean Water Act Section 404. The USACE typically considers isolated wetlands to be those of any size that are not adjacent to or do not have a sufficient hydrologic connection to navigable waters.

The *Corps of Engineers Wetland Delineation Manual* (1987) identifies the mandatory technical criteria for wetland identification. The use of this manual along with the use of USGS Topographic Maps, National Wetlands Inventory Maps, NRCS Soil Survey Maps, aerial photos of the site, and climate data are typically used as part of the offsite analysis The three essential characteristics of a jurisdictional wetland in both the 1987 Corps Wetland Delineation Manual and the recent supplements are hydrophytic vegetation, wetland hydrology, and hydric soils.

**Vegetation**

The hydrophytic vegetation criteria for wetland classification are met when greater than 50% of the dominant plant species are hydrophytes (Lichvar et al. 2014). The indicator status of plant species is expressed in terms of the estimated probabilities of that species occurring in wetland conditions within a given region. Hydrophytes include all plants classified as "FAC", "FACW" or "OBL." The indicator categories as defined by the Corps are outlined below.

*Obligate Wetland (OBL)* – Almost always occurs under natural conditions in wetlands.

*Facultative Wetland (FACW)* – Usually occurs in wetlands, but occasionally found in non-wetlands.

*Facultative (FAC)* - Equally occurs in wetland and non-wetland.

*Facultative Upland (FACU)* – Usually occurs in non-wetlands, but occasionally found in wetlands.

*Obligate Upland (UPL)* – Almost always occurs in uplands.

**Hydrology**

In order for an area to have wetland hydrology, it must exhibit one or more "primary indicators" and/or two or more "secondary indicators" for Corps jurisdictional and isolated wetlands. Primary indicators include either the direct presence of water as inundation or saturation within the upper 12 inches of the soil profile, or direct evidence of recent inundation, such as water marks, drift lines, sediment deposits, or drainage patterns. Secondary indicators are conditions reflecting the presence of reducing, or anaerobic conditions produced as a consequence of saturation or inundation. Some other primary and or secondary indicators include such conditions as oxidized root channels in the upper 12 inches of the soil profile, water-stained leaves, and a positive "FAC neutral" test (i.e., the dominant vegetation is, on average, hydrophytic).

**Soils**

The National Technical Committee for Hydric Soils (NTCHS) defines a hydric soil as a soil that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part. Nearly all hydric soils exhibit characteristic morphologies that result from repeated periods of saturation or inundation for more than a few days. Saturation or inundation, when combined with microbial activity in the soil, causes the depletion of oxygen. This anaerobiosis promotes certain biogeochemical processes, such as the accumulation of organic matter and the reduction, translocation, or accumulation of iron and other reducible elements. These processes result in distinctive characteristics that persist in the soil during both wet and dry periods, making them particularly useful for identifying hydric soils in the field.

Some of the field indicators include dark color (low chroma), redox features, gleying and/or the presence of a sulfurous odor. Although USDA soil maps are useful for soil identification, they should be used only as general guides. Soils are evaluated directly with a soil probe or by digging a test-pit.

In this report, soil colors are described using the Munsell notation system. This method of describing soil color consists of separate notations for hue, value, and chroma that are combined in that order to form the color designation. *Hue* is the primary or secondary color of the soil (i.e. 10YR). The *value* is a measure of soil darkness. The *chroma* is a measure of soil grayness.

The symbol for *hue* consists of a number from 1 to 10, followed by the letter abbreviation of the color. Within each letter range, the hue becomes more yellow and less red as the numbers increase. The notation for *value* consists of numbers from 0 (pure black) to 5 (gray) to 10 (pure white). The notation for *chroma* consists of numbers beginning with /0 (very gray) to /8. A soil described as 10YR 3/1 has a hue of 10YR, a value of 3 and a chroma of 1.

## 3.0 WETLAND DETERMINATION METHODS

### Map Review

Several sources of information were reviewed to evaluate the site and identify potential wetland soil units and wetlands on the parcel. The general topography and elevation of the site was reviewed using an online five foot contour map (LiDAR). Soil types were identified using the U.S Department of Agriculture Natural Resource Conservation Service (NRCS) Web Soil Survey map. Potential wetlands were identified using a *National Wetland Inventory* (NWI) NYSDEC wetland maps and previous wetland delineation wetland maps. Maps can only be used to establish the probability and approximate location of wetlands on the site; therefore, the US Army Corps of Engineers (USACE) do not accept the use of these maps to make final wetland determinations. Final wetland determinations were made with on-site observations and fieldwork. Prior to the fieldwork, background information was reviewed to establish the probability and approximate location of wetlands on the site. The following maps or photographs were reviewed offsite or onsite as part of the wetland determination.

- *Soil Survey Map* - The NRCS Web Soil Survey Map (Figure 2) identifies eight soil series within the site boundaries with five being the most abundant; Mta, Lm, Nga, Lk and Ga (A&B).

- *NWI & NYSDES Map* - The Northwest and NYSDEC Wetland Inventory Map of the area (Figure 3) shows the forested wetland along the west end of the parcel and the forested wetland on portions of the east side of the parcel.

- *Topography Map*- The five foot contour map (Figure 4) shows the general flat topography of the site, with lowest elevations on the west side and highest elevation on the east side of the parcel.

### Site Investigation and Description

AES inspected the 90 acre site on September 22 and 23, 2015. The delineation of the wetlands within the site is based on the methodology described in the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Supplement (2012) as required by current Corps policy.

The project area was inspected with the intent of locating wetlands and determining wetland boundaries. Thirteen soil pits were dug in the western forested area. The western area is comprised of a wetland/upland wooded complex with an area of historic fill. Soil pits were dug to a sufficient depth (14-26 inches) to locate and describe the soil conditions. At each of the four soil pits a NC/NE wetland delineation data form was filled out and a determination was made for each test soil pit as to whether it

was located in a wetland or upland. The wetland boundary was flagged and GPS surveyed with a hand held Trimble unit with sub-meter accuracy. In the fallow field areas, no data points were collected as it was evident that these fields have reverted back to wetland conditions. A return visit will likely be required to further delineate and confirm wetlands in these agricultural fields. The eastern portion of the parcel also contains a wooded wetland complex, somewhat more degraded than the western woods. Historic areas of fill also occur in the eastern side of the parcel.

### Site Photographs

Photographs of the site taken in 2015 are located in Exhibit 1. These photographs are the visual documentation of site conditions at the time of inspection. The photographs are intended to provide representative visual samples of soil test pits, wetlands, uplands data points, or other special features found on or near the site investigated.

### Routine Wetland Delineation Data Forms

Completed Routine Wetland Delineation Data Forms- Northcentral and Northeast Region for this delineation are located in Exhibit 2. These forms are the written documentation of how the 13 Data Points meet or do not meet each of the wetland criteria.

## 4.0 RESULTS & DISCUSSION

### Site Conditions

**General**

The antecedent precipitation total for the three months prior to the field delineation work (July, August and September) was 7.35 inches (Exhibit 3). The average precipitation for these three months is 11.73 inches with a 30% threshold for a "dry" condition at 8.75 inches. Thus, antecedent precipitation was outside the normal range and represented a "dry" precipitation condition at the time of the wetland field work.

The 90 acre site is comprised of a wetland/upland woodland complex on the west, a wetland woodland and fill on the east with fallow agricultural fields in the center of the parcel. The NWI and NYSDEC map identifies forested wetlands as occurring in the west and east ends of the parcel (Figure 3), which was confirmed in this field work. However, the NYSDEC wetland map did not differentiate the smaller upland knolls delineated in the western woodland complex (Figure 5). The five-foot topographic map of the area investigated shows that the parcel is essentially flat (Figure 4) with a slight gradual rise from west to east. The fallow agricultural fields represent a disturbed and problematic condition. The property's wetlands had previously been delineated by two firms and the wetland boundaries were substantially different from each other. Thus this delineation was completed to update the previous two delineation results.

**Wetlands**

***Data Points:***

Data Points 1, 3, 5, 8, 11 and 12 (Figure 5) documented the existing forested wetland condition on the west side of the parcel and had all three required indicators (vegetation, hydrology, soils). The dominant vegetation identified in the forested wetland areas was usually red maple (*Acer rubrum*), American elm (*Ulmus americana*), sensitive fern (*Onoclea sensibilis*) and calico aster (*Symphyotrichum lateriflorum*) (Exhibit 2). Examination of the soils and the test pits in the wetland found that the top layer of soil consisted of a dark colored sandy topsoil with a redox concentrations in the matrix below.

**Uplands**

***Data Points***

Upland Data Points 2, 4, 6, 7, 9, 10 & 13 (Figure 5) were sampled in upland woods within the larger wet forest community. Red maple, cherry (*Prunus serotina*) and woodbine (*Parthenocissus quinquefolia*) were the typical upland woods dominants (Exhibit 2).

## 5.0 SUMMARY AND CONCLUSIONS

Based on the review of soils, NWI, NYSDEC wetland maps, topography and previous delineation maps and the on-site field determination conducted on September 22 & 23 2015 it was apparent that wetlands and wetland vegetation dominant the 90 acre parcel (Figure 5). Investigations of the fallow areas in the center of the property found hydric vegetation throughout including sedges, red top grass, purple loosestrife and giant reed grass. The wetland boundary was GPS surveyed by AES. The wetlands in the fallowed farm fields likely meet the USACE definition of wetland, but will likely require confirmation during the 2016 growing season.

### Literature Cited

Lichvar, R.W., M. Butterwick, N.C. Melvin, and W.N. Kirchner. 2014. The National Wetland Plant List: 2014 update of Wetland Ratings. Phytoneuron 2014-41:1-42. Northcentral and Northeast Region

U.S. Army Corps of Engineers. 2011. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0), ed. J.S. Wakeley, R. Lichvar, C.V. Noble and J.F. Berkowitz. ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

# FIGURES

# Figure 1. CNY Parcel Location Map

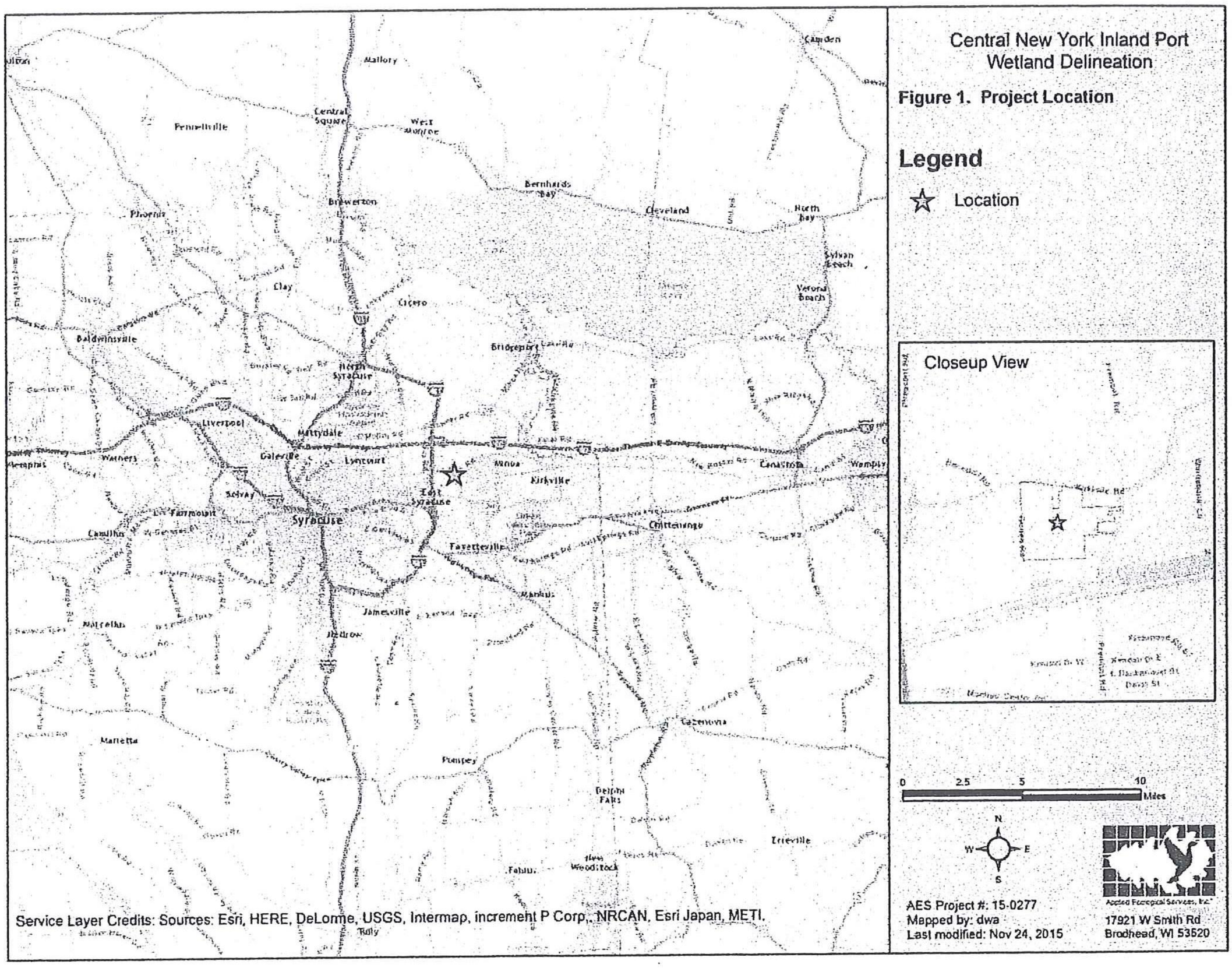


Figure 2. CNY Parcel Soils Map.

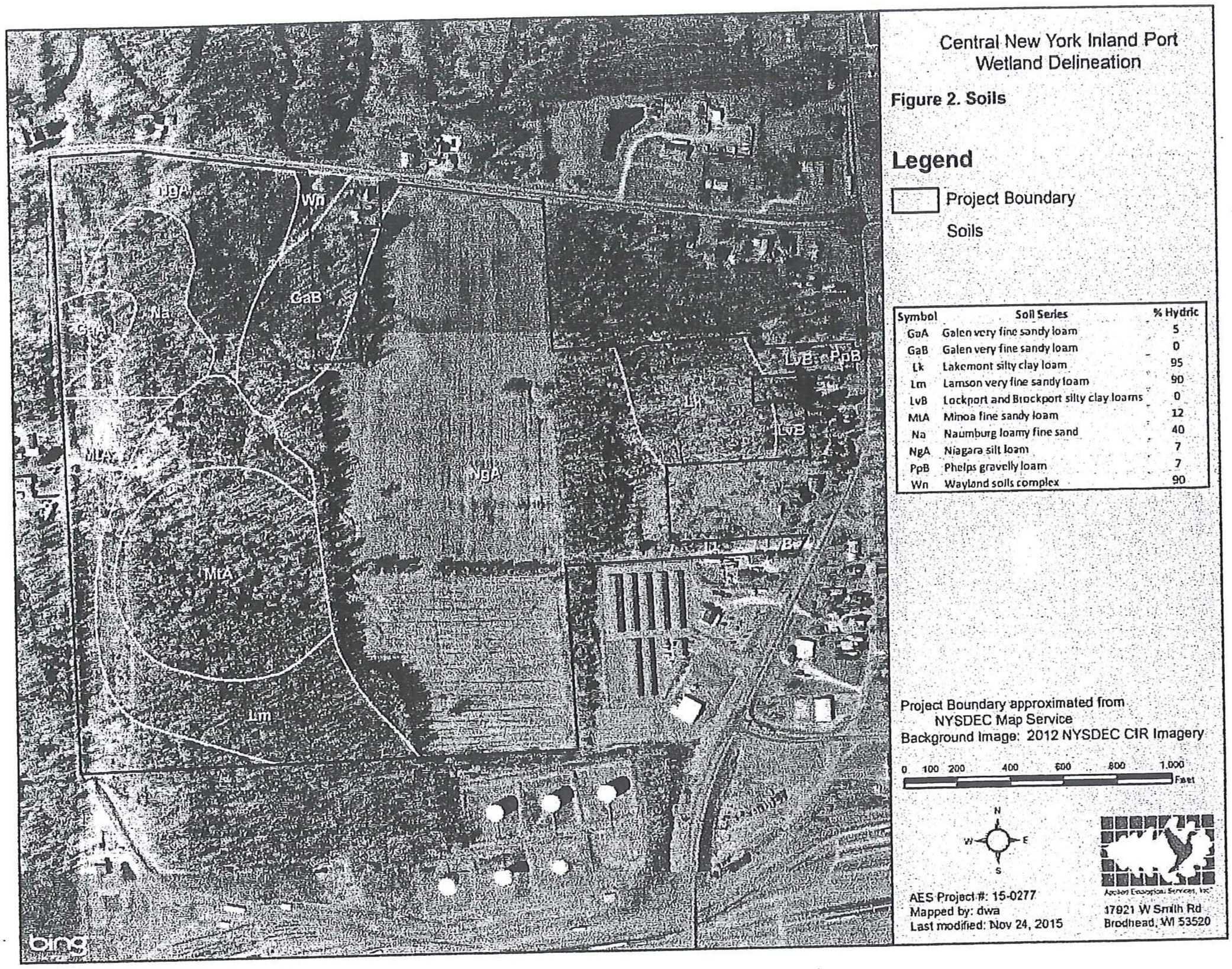


Figure 3. CNY Parcel National Wetlands and NYSDEC Inventory Map

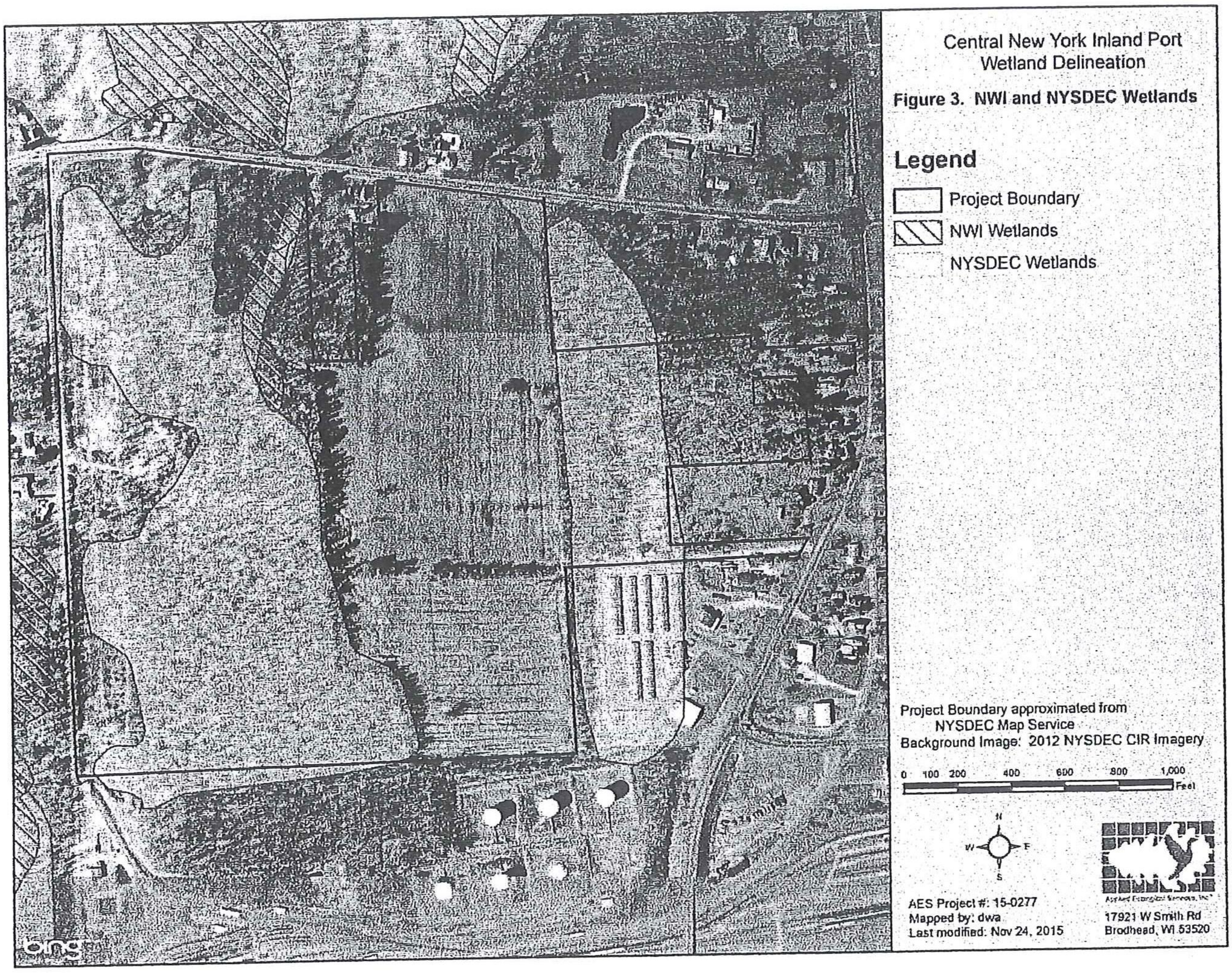
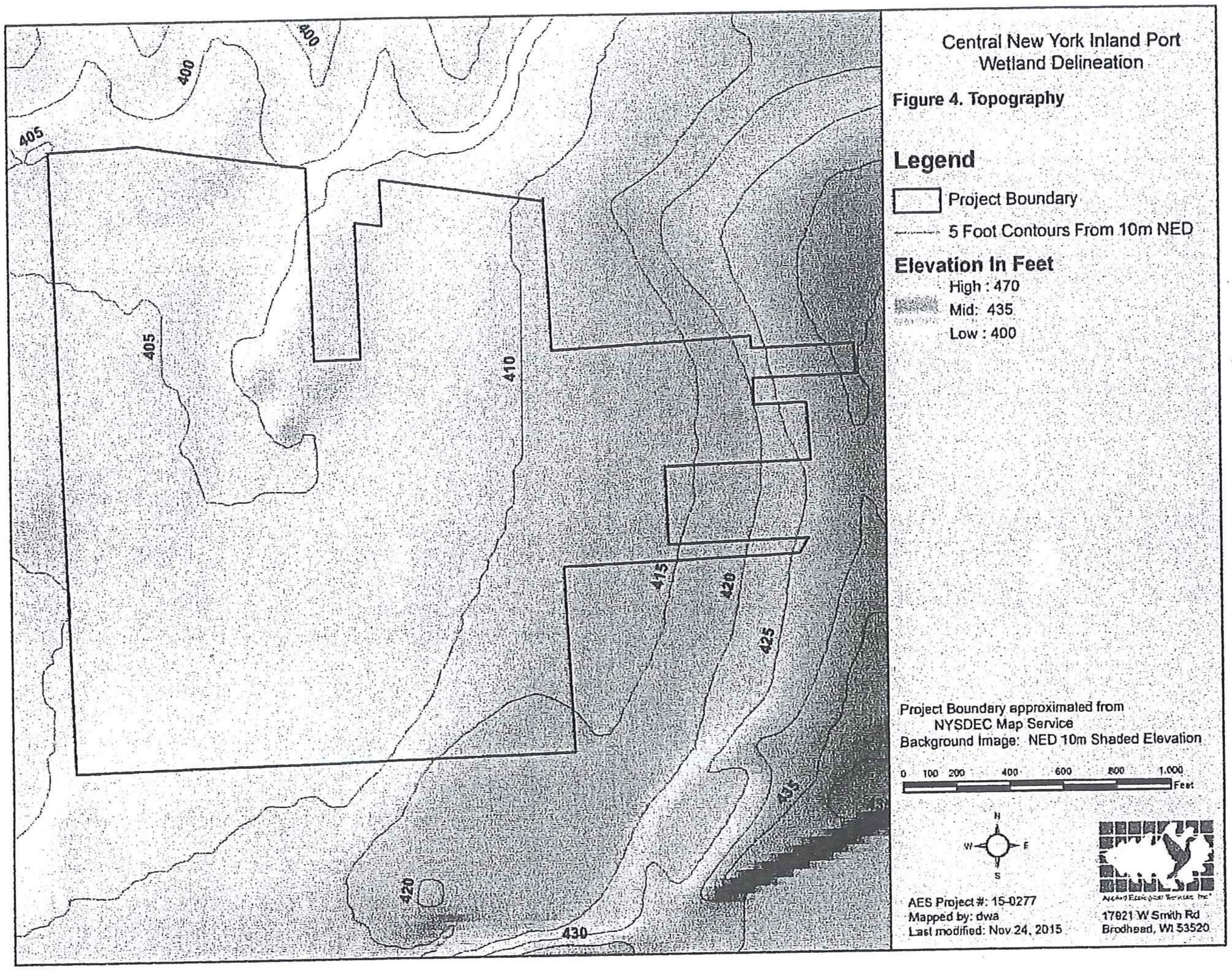
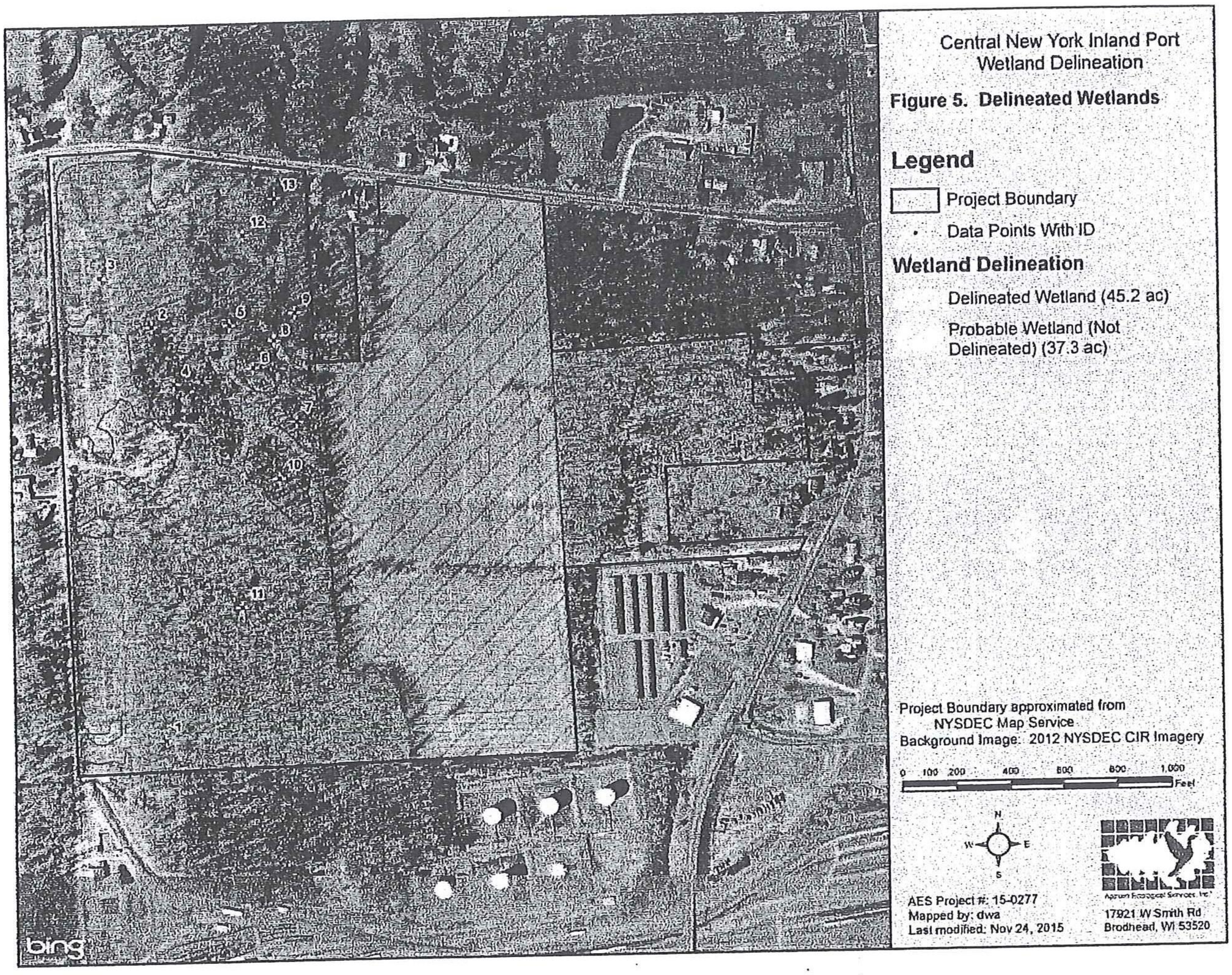


Figure 4. CNY Parcel Topography Map



## Figure 5. CNY Parcel Wetland Delineation and Wetland Determination Map



# EXHIBITS

EXHIBIT 1. Site Photographs of the CNY parcel taken on September 22 and 23 , 2015.

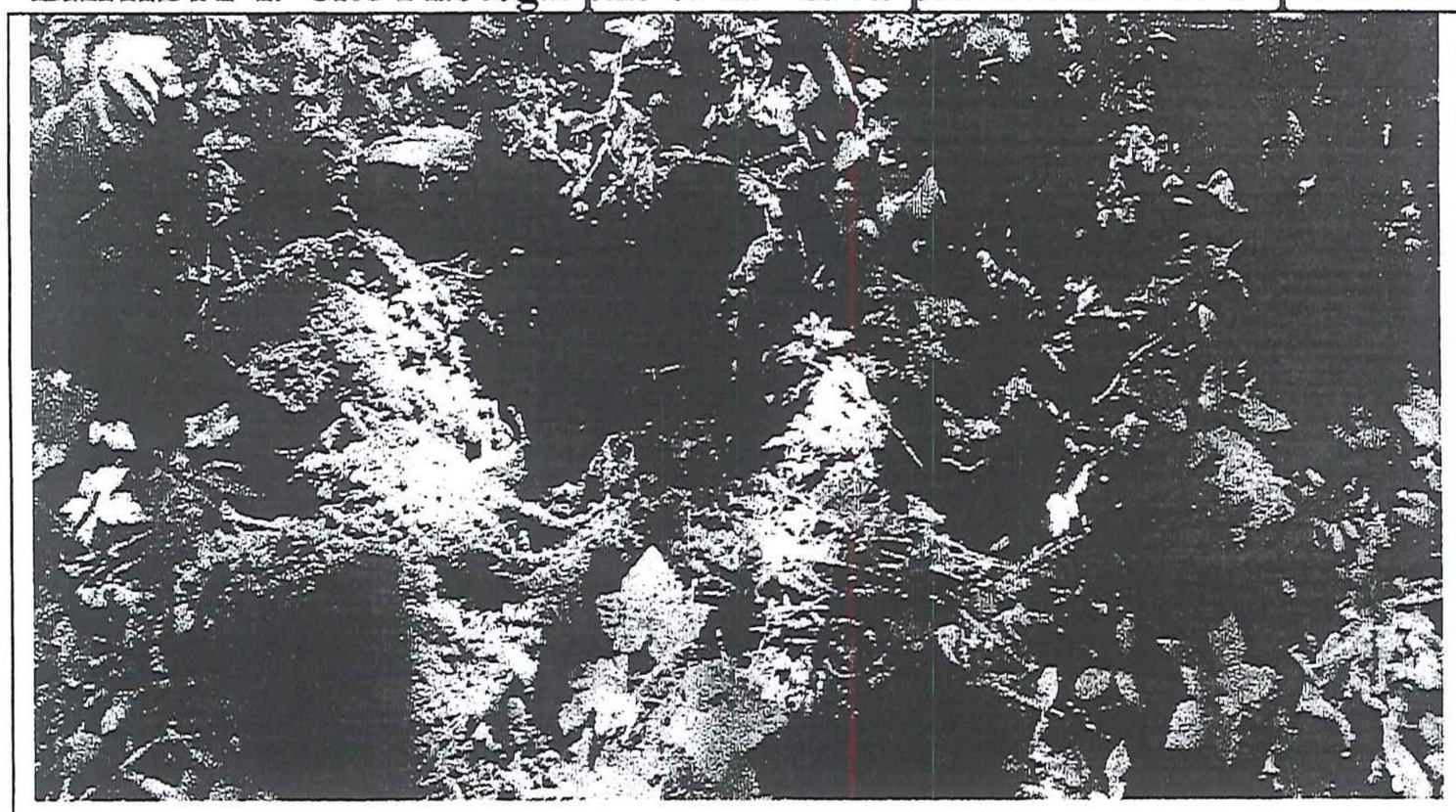


Photo 1. Wetland soils at Data Point 1.

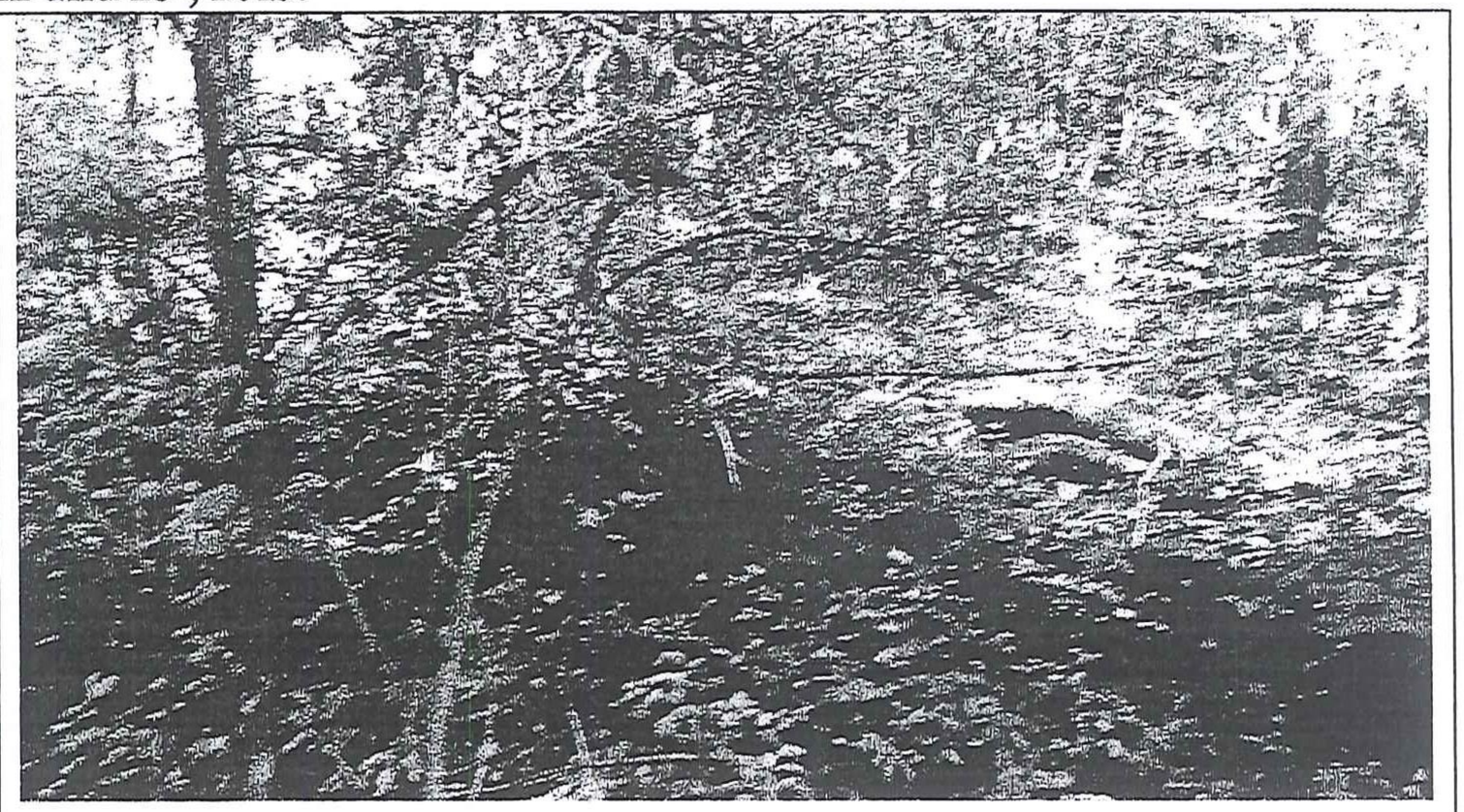


Photo 2. Wooded wetland near Data Point 1.

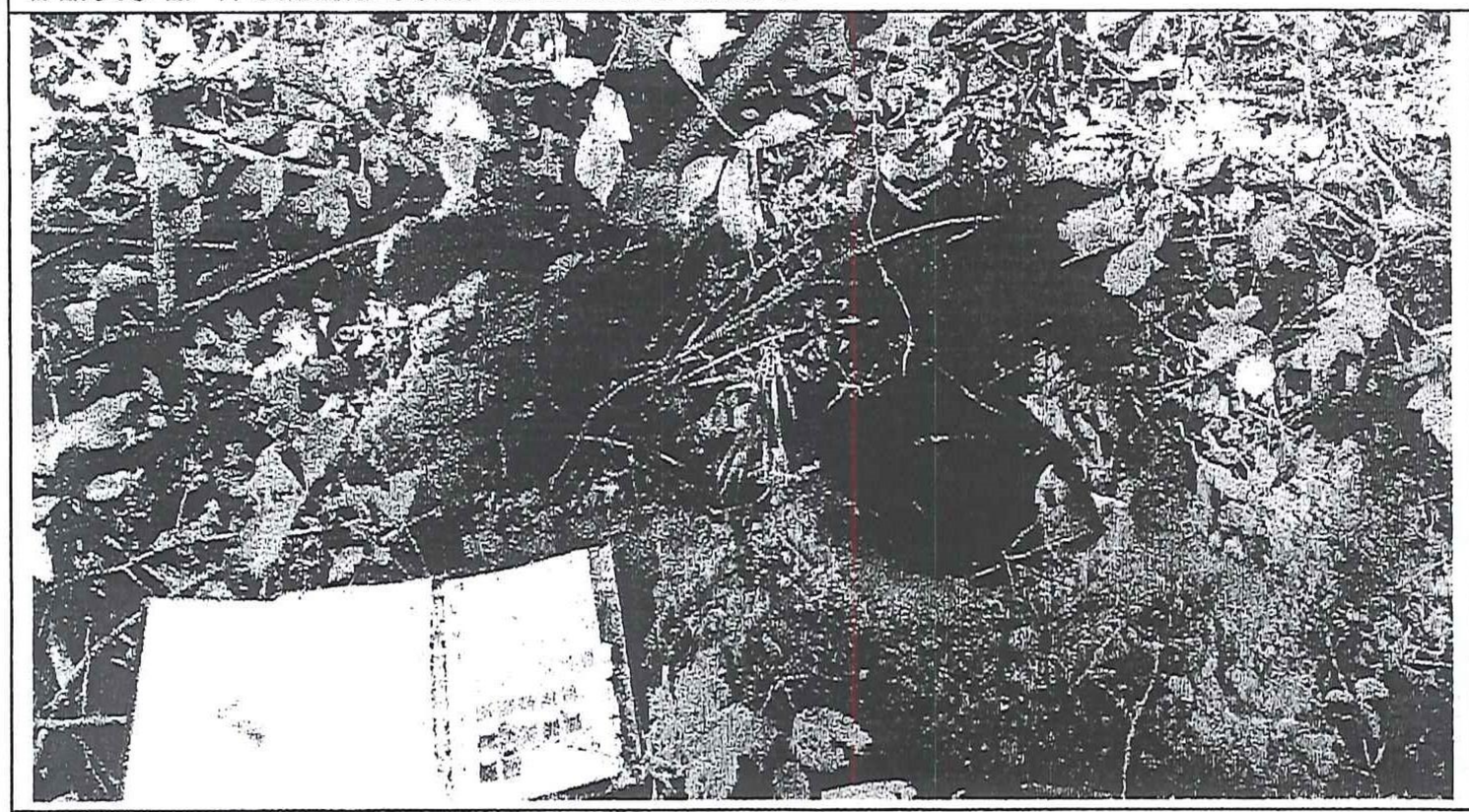


Photo 3. Upland soils at Data Point 2.

Photo 4. Upland woods at Data Point 2.

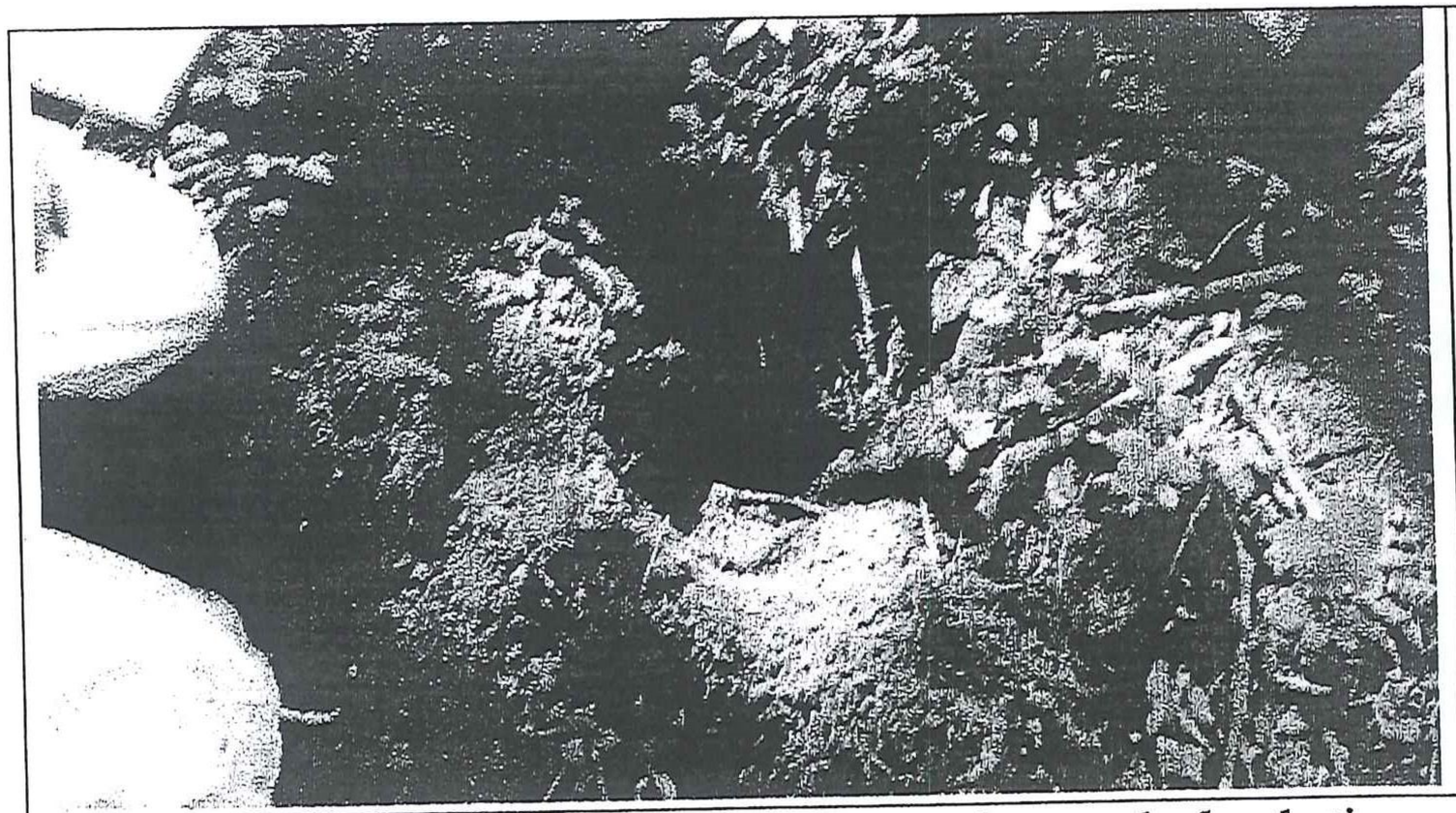


Photo 5. Upland soils at Data Point 3. Vegetation was hydrophytic

Photo 6. Forested wetland near Data Point 3

Photo 7. Wetland soils at Data Point 5

Photo 8. Forested wetland near Data Point 5

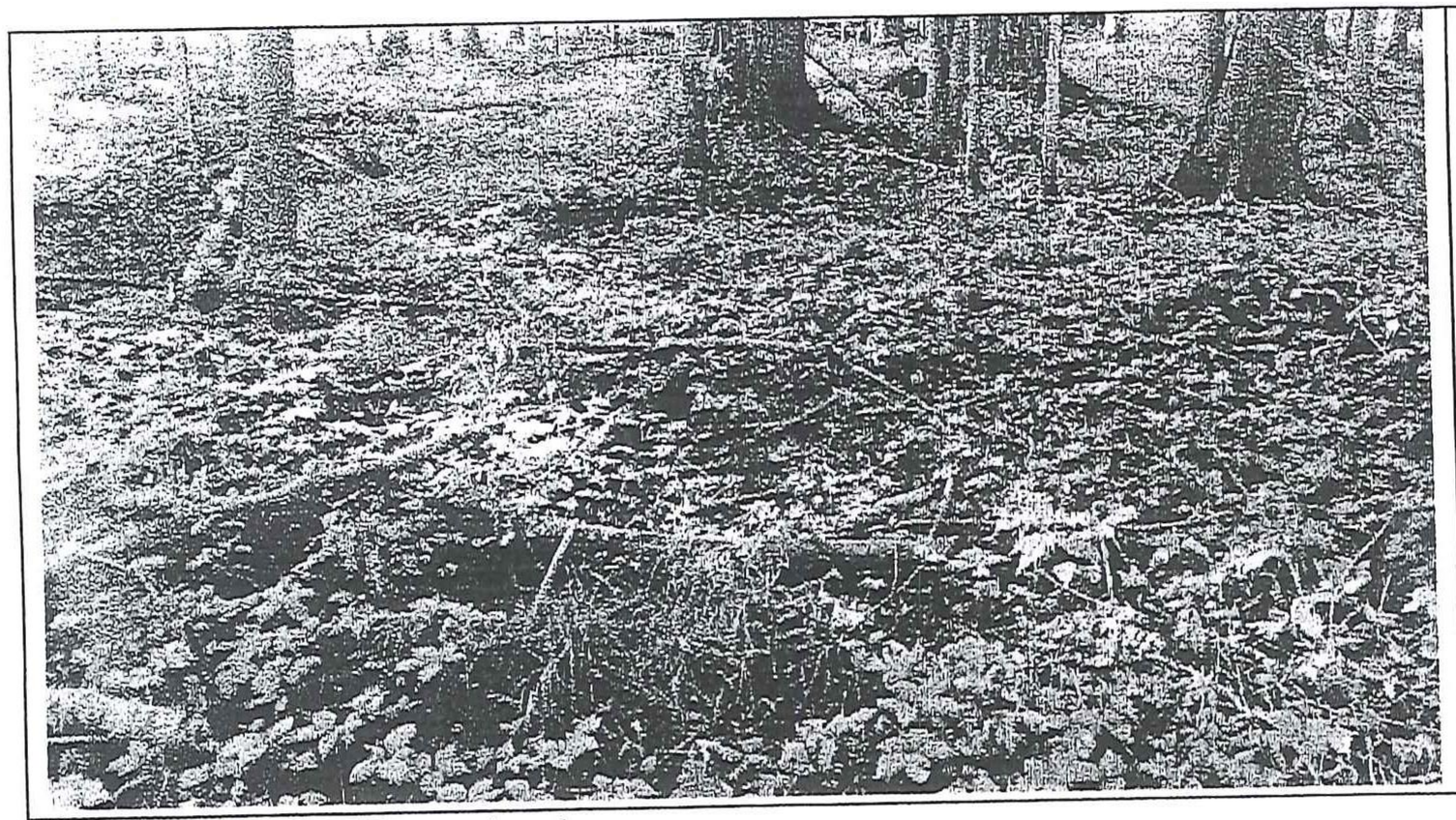


Photo 9. Forested wetland.

Photo 10. Forested wetland.

Photo 11. Forested wetland.

Photo 12. West edge of fallow field with reed canary grass and purple loosestrife.

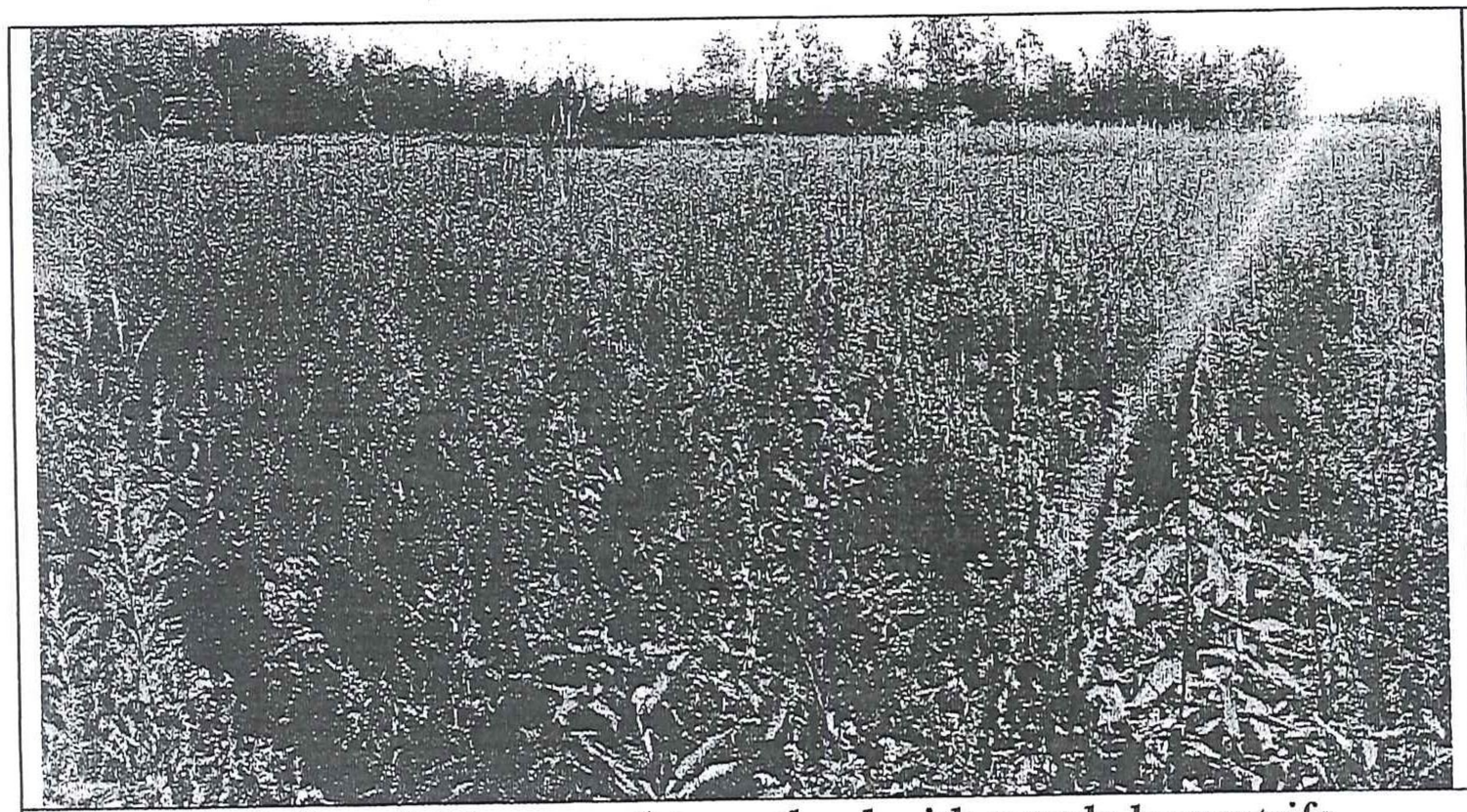


Photo 13. Fallow field reverted to wetland with purple loosestrife.

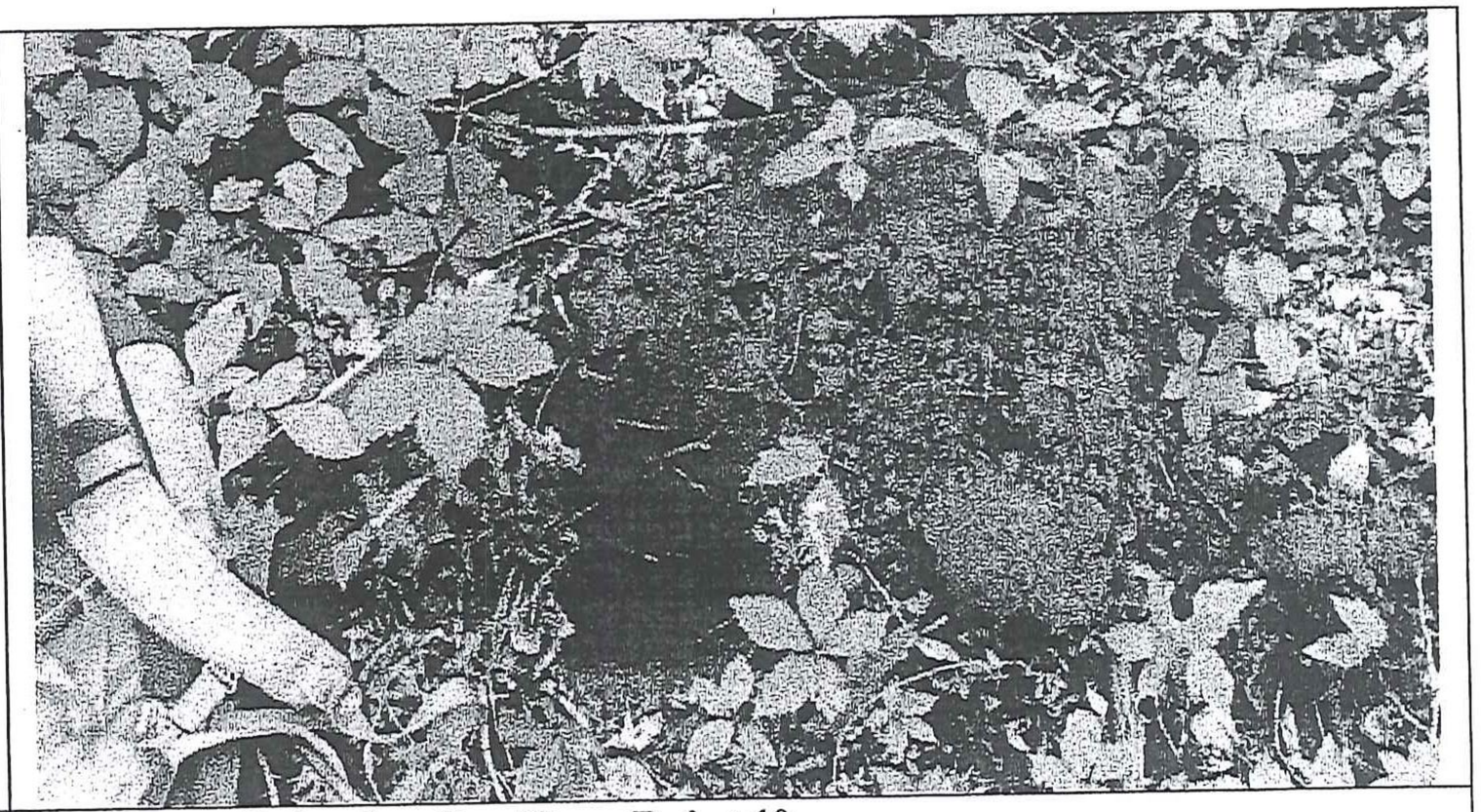


Photo 14. Upland soil at Data Point 10

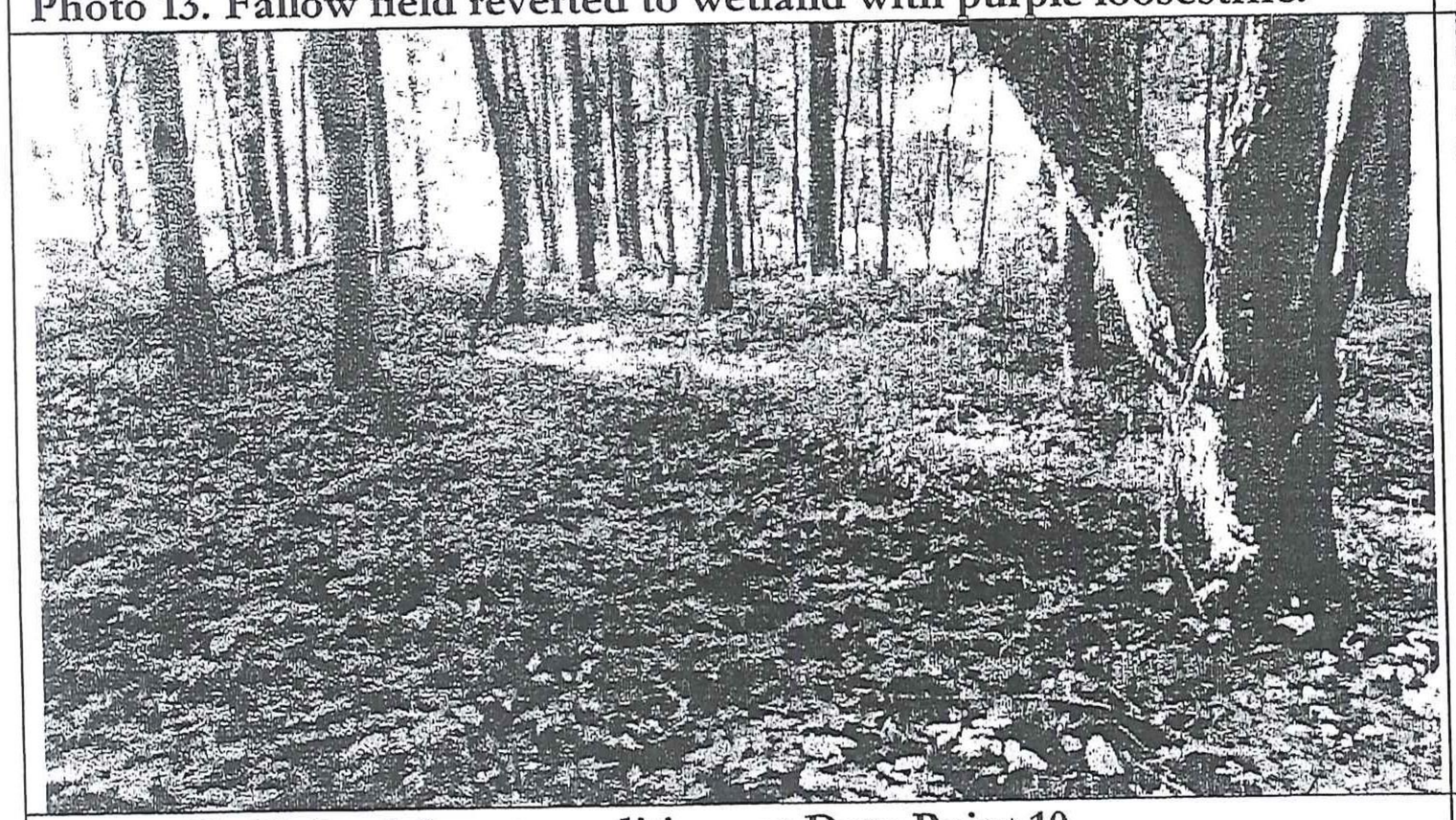


Photo 15. Upland forest conditions at Data Point 10

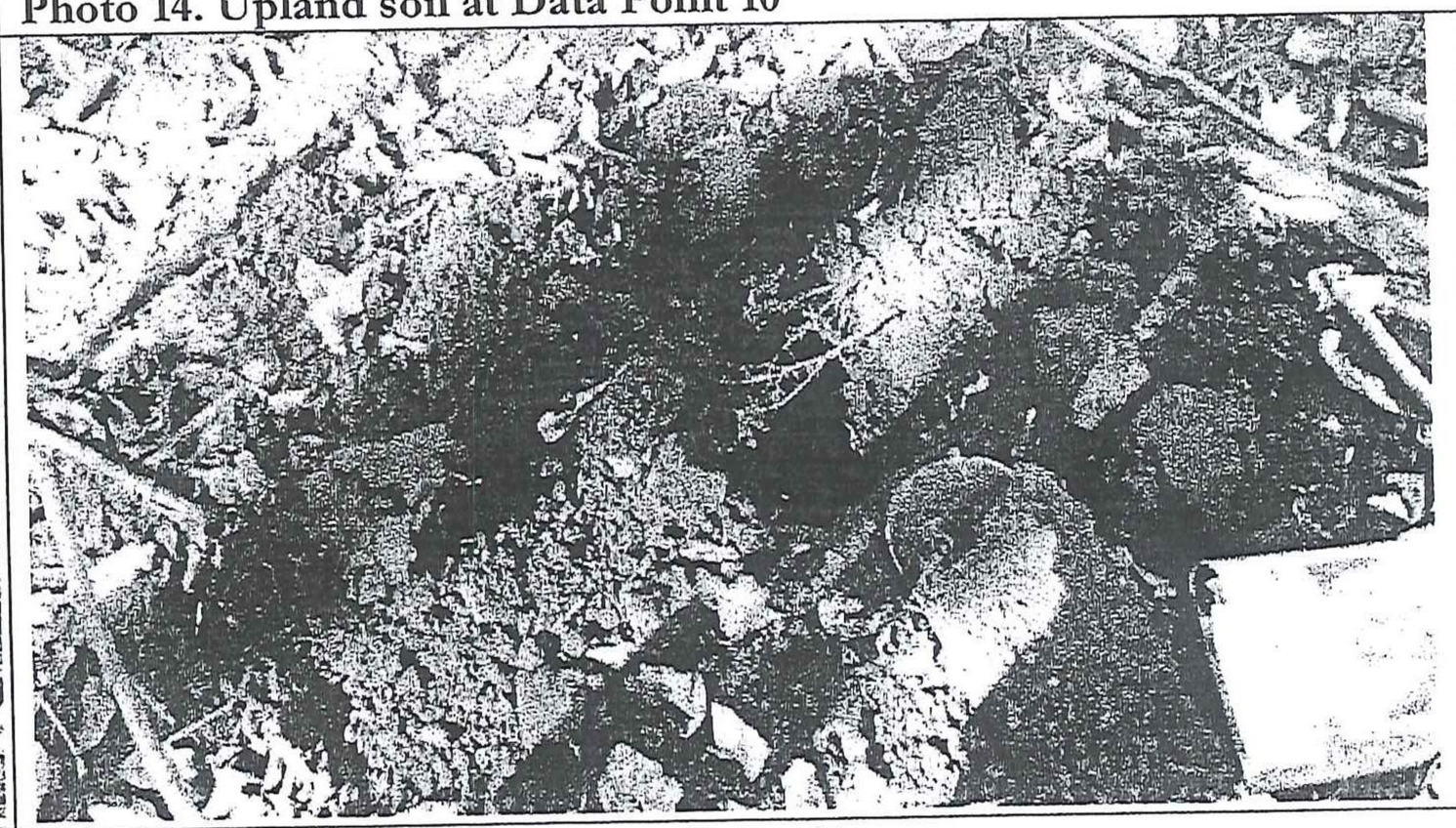


Photo 16. Wetland soils at Data Point 11

Photo 17. Wetland forest conditions near data point 11

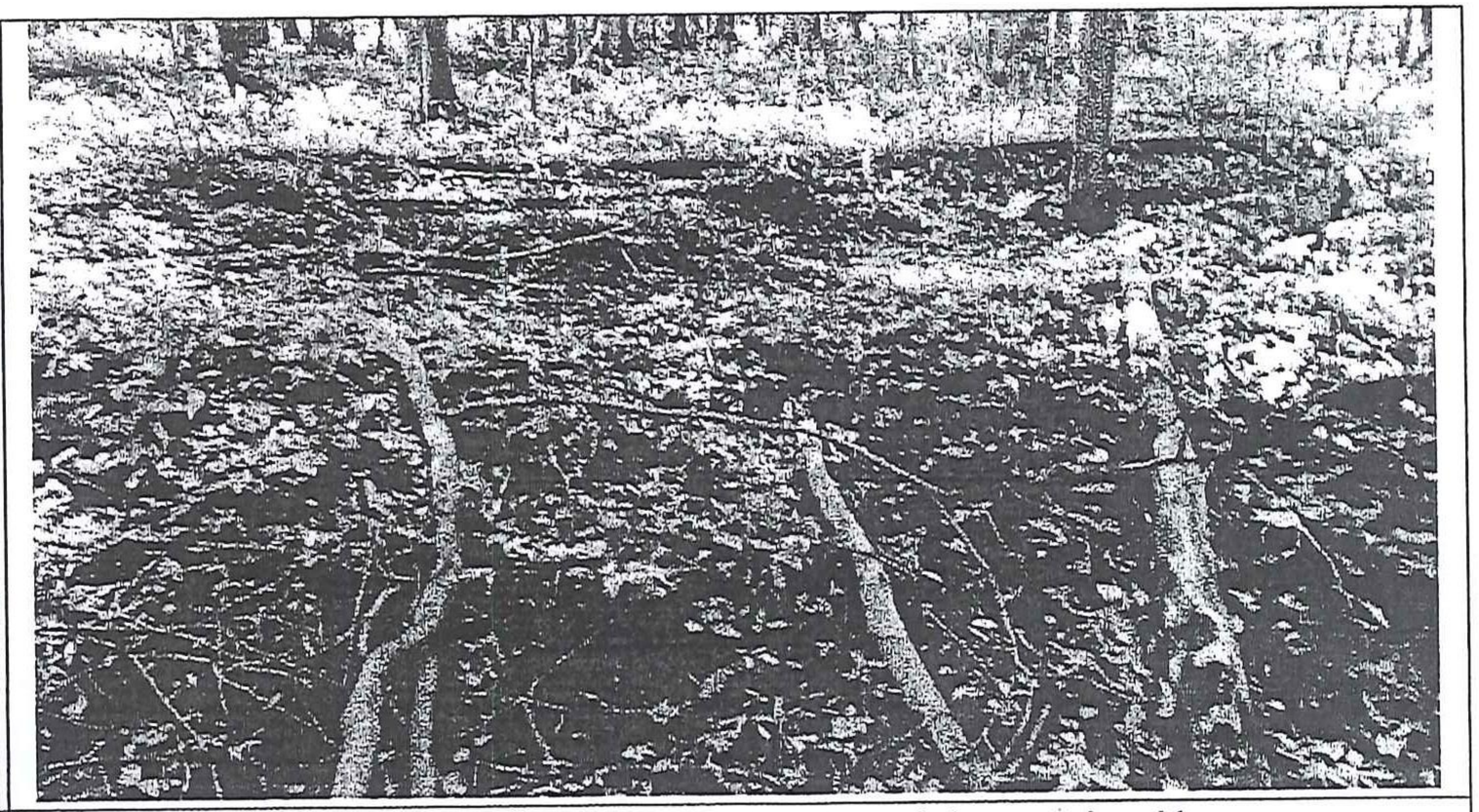


Photo 18. Forested wetland in the vicinity of data point 11.

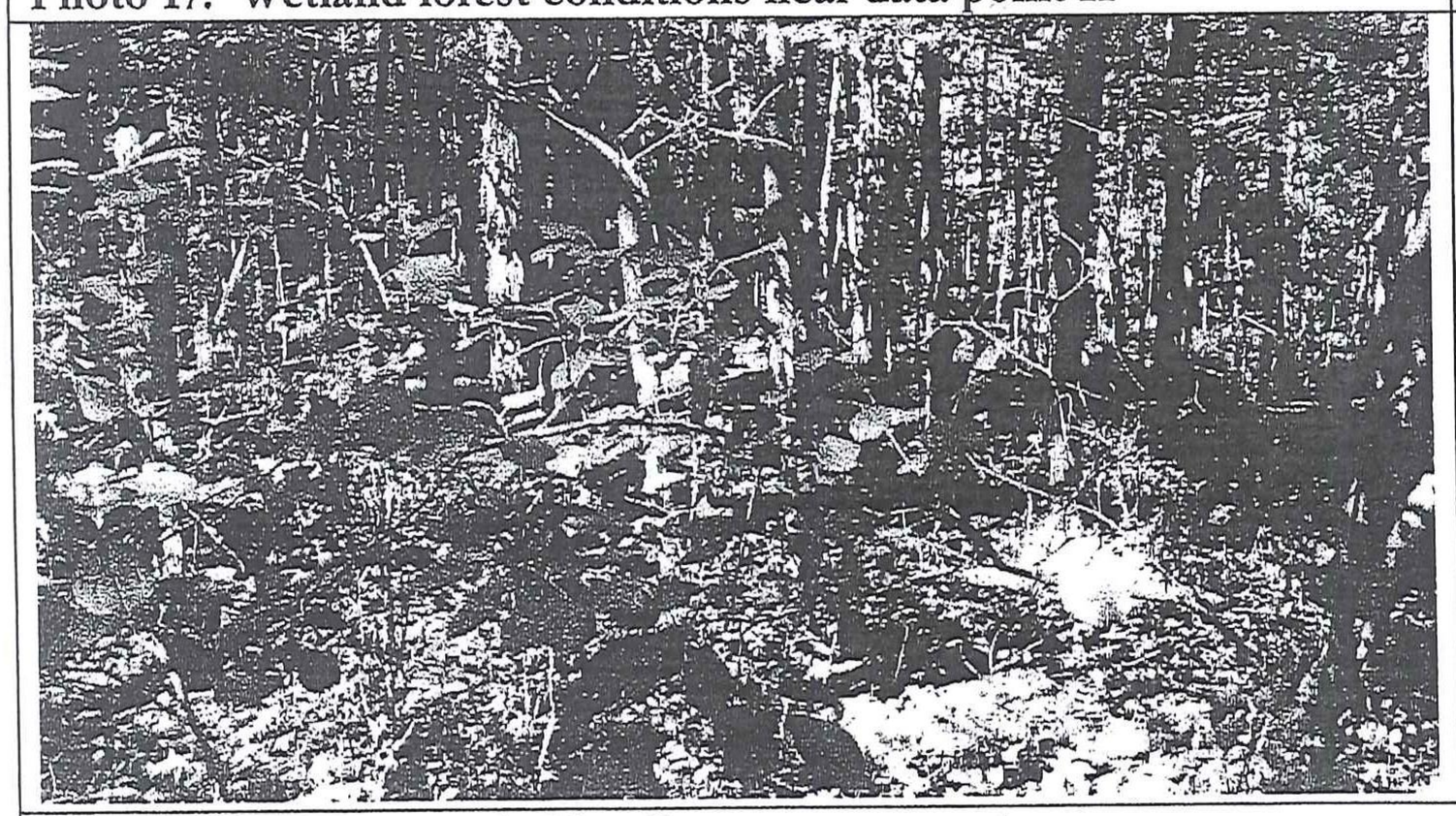


Photo 19. Upland wooded knoll

Photo 20. Young forested wetland at north end near data point 12.

**Photo 21. Upland woods at north end of property near data point 13.**

# EXHIBIT 2. Routine Wetland Delineation Data Forms – Northcentral & Northeast Region

| | | | |
|---|---|---|---|
| Project Site: CNY | City/County: Syracuse | | Sampling Date: 9/22/15 |
| Applicant/Owner: Working Lands | State: New York | | Sampling Point: 1 |
| Investigator(s): JLL, SV | | Section, Township, Range: | |
| Landform (Hillslope, terrace, etc.) | Local relief (concave, convex, none): Concave | | Slope (%) |
| Subregion (LRR or MLRA): Lat: | Long: | Datum: 43.07586 North latitude and 76.03483 West longitude | |
| Soil Map Unit Name: Lamson very fine sandy loam | | NYSDEC classification: Yes | |
| Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in remarks) | | | |
| Is Significantly Disturbed: | Vegetation?☐ | Soil?☐ | Hydrology?☐ | Are "Normal Circumstances" Present? Yes ☒ No☐ |
| Is Naturally Problematic: | Vegetation?☐ | Soil?☐ | Hydrology?☐ | If needed, explain 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: June was very wet, July, August and September below normal. | | |

## HYDROLOGY

| Wetland Hydrology Indicators: | | |
|---|---|---|
| Primary Indicators (minimum of one is required: check all that apply). | | Secondary Indicators (minimum of 2 required) |
| ☐ Surface Water (A1) | ☒ Water-Stained Leaves (B9) | ☒ Surface Soil Cracks (B6) |
| ☐ High Water Table (A2) | ☐ Aquatic Fauna (B13) | ☒ Drainage Patterns (B10) |
| ☐ Saturation (A3) | ☐ Marl Deposits (B15) | ☐ Moss Trim Lines (B16) |
| ☐ Water Marks (B1) | ☐ Hydrogen Sulfide Odor (C1) | ☐ Dry-Season Water Table (C2) |
| ☐ Sediment Deposits (B2) | ☐ Oxidized Rhizospheres on Living Roots (C3) | ☐ Crayfish Burrows (C8) |
| ☒ Drift Deposits (B3) | ☐ Presence of Reduced Iron (C4) | ☐ Saturation Visible on Aerial Imagery (C9) |
| ☐ Algal Mat or Crust (B4) | ☐ Recent Iron Reduction in Tilled Soils (C6) | ☐ Stunted or Stressed Plants (D1) |
| ☐ Iron Deposits (B5) | ☐ Thin Muck Surface (C7) | ☐ Geomorphic Position (D2) |
| ☐ Inundation Visible on Aerial Imagery (B7) | ☐ Other (Explain in Remarks) | ☐ Shallow Aquitard (D3) |
| ☐ Sparsely Vegetated Concave Surface (B8) | | ☒ Microtopographic Relief (D4) |
| | | ☐ FAC-Neutral Test (D5) |

| Field Observations: | | | |
|---|---|---|---|
| Surface Water Present? | Yes ☐ No☒ | Depth (inches): | Wetland Hydrology Present? |
| Water Table Present? | Yes☐ No☒ | Depth (inches): | Yes ☒ No☐ |
| Saturation Present? (includes capillary fringe) | Yes ☐ No☒ | Depth (inches): | |
| Described Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | |

Remarks:

Red maple hardwood swamp w/hummocky vegetation drainage patterns.

VEGETATION – Use scientific names of plants

Sampling Point: 1

| Tree Stratum (Plot size): 15m | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Acer rubrum* | 25 | Yes | FAC |
| 2. *Ulmus americana* | 10 | Yes | FACW |
| 3. *Fraxinus pennsylvanica* | 10 | Yes | FACW |
| 4. | | | |
| 5. | | | |
| | 45 | = Total Cover | |
| Sapling/Shrub Stratum (Plot size): 5m | | | |
| 1. *Lindera benzoin* | 10 | Yes | FACW |
| 2. *Ulmus americana* | 10 | Yes | FACW |
| 3. *Rhamnus cathartica* | 5 | No | FAC |
| 4. *Fraxinus pennsylvanica* | 2 | No | FAC |
| 5. | | | |
| | 27 | = Total Cover | |
| Herb Stratum (Plot size): 1m² | | | |
| 1. *Cinna arundinacea* | 3 | No | FACW |
| 2. *Polygonum virginianum* | 5 | No | FAC |
| 3. *Epilobium coloratum* | 2 | No | OBL |
| 4. *Geum canadense* | 2 | No | FAC |
| 5. *Rhus radicans* | 10 | Yes | FAC |
| 6. *Oxalis stricta* | 1 | No | UPL |
| 7. *Glyceria striata* | 3 | No | FACW |
| 8. *Ribes americanum* | 5 | No | FACW |
| 9. *Symphyotrichum lateriflorum* | 2 | No | FACW |
| 10. *Rhamnus cathartica* | 2 | No | FAC |
| 11. *Onoclea sensibilis* | 2 | No | FACW |
| Total | 37 | = Total Cover | |
| 1. | | | |
| 2. | | | |
| | 0 | = Total Cover | |

Dominance Test Worksheet:

Number of Dominant Species that are OBL, FACW, or FAC: 6 (A)

Total number of dominant species across all strata: 6 (B)

% Dominant Species that are OBL, FACW, or FAC: 100 (A/B)

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 =

Hydrophytic Vegetation Indicators:

- ☐ Rapid Test for Hydrophytic Vegetation
- ☒ Dominance Test is >50%
- ☐ Prevalence Index is ≤ 3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Definitions of Vegetation Strata:

Trees – Woody plants 3" (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 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.

Remarks: (Include photo numbers here or on a separate sheet).

Dominated by wetland plants

## SOILS

Sampling Point 1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|
| | Color (moist) | % | Color (moist) | % | Type [1] | Loc [2] | | |
| 0-12 | 10 YR 2/1 | | | | | | sandy silt loam | |
| 12- | 10 YR 5/2 | | 10 YR 5/4 | 10 | | | Sandy silt loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.
[2] Location: PL=Pore Lining, M=Matrix

| Hydric Soil Indicators: | | Indicators for Problematic Hydric Soils [3]: |
|---|---|---|
| ☐ Histosol (A1) | ☐ Stripped Matrix (S6) | ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| ☐ Histic Epipedon (A2) | ☒ Dark Surface (S7) (LRR R, MLRA 149B) | ☐ Coast Prairie Redox (A16) (LRR K, L, R) |
| ☐ Black Histic (A3) | ☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| ☐ Hydrogen Sulfide (A4) | ☐ Thin Dark Surface (S9) (LRR R, MLRA 149B) | ☐ Dark Surface (S7) (LRR K, L) |
| ☐ Stratified layers (A5) | ☐ Loamy Mucky Mineral (F1) (LRR K, L) | ☐ Polyvalue Below Surface (S8) (LRR K, L) |
| ☐ Depleted Below Dark Surface (A11) | ☐ Loamy Gleyed Matrix (F2) | ☐ Thin Dark Surface (S9) (LRR K, L) |
| ☒ Thick Dark Surface (A12) | ☐ Depleted Matrix (F3) | |
| ☐ Sandy Mucky Mineral (S1) | ☐ Redox Dark Surface (F6) | |
| ☐ Sandy Gleyed Matrix (S4) | ☐ Depleted Dark Surface (F7) | |
| ☐ Sandy Redox (S5) | ☐ Redox Depressions (F8) | |
| | | ☐ Iron-Manganese Masses (F12) (LRR K, L, R) |
| | | ☐ Piedmont Floodplain Soils (F19) (MLRA 149B) |
| | | ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| | | ☐ Red Parent Material (TF2) |
| | | ☐ Very Shallow Dark Surface (TF12) |
| | | ☐ Other (Explain in Remarks |

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

| Restrictive Layer (if observed): | Hydric Soil Present? Yes ☒ | No ☐ |
|---|---|---|
| Type: | | |
| Depth (inches): | | |

Remarks:

Thick dark surface in swale concave swale within wetland upland complex.

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

| | | | |
|---|---|---|---|
| Project Site: CNY | City/County: Syracuse | | Sampling Date: 9/22/15 |
| Applicant/Owner: Working Lands | State: New York | | Sampling Point: 2 |
| Investigator(s): JLL, SV, MM | | Section, Township, Range: | |
| Landform (Hillslope, terrace, etc.) | Local relief (concave, convex, none): | | Slope (%) Flat |
| Subregion (LRR or MLRA): Lat: | Long: | Datum: 43.07586 North latitude and 76.03483 West longitude | |
| Soil Map Unit Name: Minoa fine sandy loam | | NYSDEC classification: Yes | |
| Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in remarks) | | | |
| Is Significantly Disturbed: | Vegetation?☐ | Soil?☐ | Hydrology?☐ | Are "Normal Circumstances" Present? Yes ☒ No☐ |
| Is Naturally Problematic: | Vegetation?☐ | Soil?☐ | Hydrology?☐ | If needed, explain 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☒<br>If yes, optional Wetland Site ID: |
| Remarks: June was very wet, July, August and September below normal. | | |

## HYDROLOGY

| Wetland Hydrology Indicators: | | |
|---|---|---|
| Primary Indicators (minimum of one is required: check all that apply). | | Secondary Indicators (minimum of 2 required) |
| ☐ Surface Water (A1) | ☐ Water-Stained Leaves (B9) | ☐ Surface Soil Cracks (B6) |
| ☐ High Water Table (A2) | ☐ Aquatic Fauna (B13) | ☐ Drainage Patterns (B10) |
| ☐ Saturation (A3) | ☐ Marl Deposits (B15) | ☐ Moss Trim Lines (B16) |
| ☐ Water Marks (B1) | ☐ Hydrogen Sulfide Odor (C1) | ☐ Dry-Season Water Table (C2) |
| ☐ Sediment Deposits (B2) | ☐ Oxidized Rhizospheres on Living Roots (C3) | ☐ Crayfish Burrows (C8) |
| ☐ Drift Deposits (B3) | ☐ Presence of Reduced Iron (C4) | ☐ Saturation Visible on Aerial Imagery (C9) |
| ☐ Algal Mat or Crust (B4) | ☐ Recent Iron Reduction in Tilled Soils (C6) | ☐ Stunted or Stressed Plants (D1) |
| ☐ Iron Deposits (B5) | ☐ Thin Muck Surface (C7) | ☐ Geomorphic Position (D2) |
| ☐ Inundation Visible on Aerial Imagery (B7) | ☐ Other (Explain in Remarks) | ☐ Shallow Aquitard (D3) |
| ☐ Sparsely Vegetated Concave Surface (B8) | | ☐ Microtopographic Relief (D4) |
| | | ☐ FAC-Neutral Test (D5) |

| Field Observations: | | | |
|---|---|---|---|
| Surface Water Present? | Yes ☐ | No☒ | Depth (inches): |
| Water Table Present? | Yes☐ | No☒ | Depth (inches): |
| Saturation Present? (includes capillary fringe) | Yes ☐ | No☒ | Depth (inches): |

Wetland Hydrology Present? Yes ☐ No☒

Described Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Sampling Point: 2

## VEGETATION – Use scientific names of plants

| Tree Stratum (Plot size): | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Prunus serotina* | 10 | Yes | FACU |
| 2. *Acer rubrum* | 25 | Yes | FAC |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | 35 | = Total Cover | |
| Sapling/Shrub Stratum (Plot size): | | | |
| 1. *Nyssa sylvatica* | 15 | Yes | FAC |
| 2. *Prunus virginiana* | 5 | Yes | FACU |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | 20 | = Total Cover | |
| Herb Stratum (Plot size): | | | |
| 1. *Prunus virginiana* | 5 | No | FACU |
| 2. *Fraxinus pennsylvanica* | 3 | No | FACW |
| 3. *Rhus radicans* | 20 | Yes | FAC |
| 4. *Parthenocissus quinquefolia* | 25 | Yes | FACU |
| 5. *Viburnum dentatum* | 5 | No | UPL |
| 6. *Fragaria virginiana* | 2 | No | FAC |
| 7. *Acer rubrum* | 1 | No | FAC |
| 8. *Prunus serotina* | 5 | No | FACU |
| 9. | | | |
| 10. | | | |
| | 66 | = Total Cover | |
| Woody Vine Stratum (Plot size): | | | |
| 1. | | | |
| 2. | | | |
| | | = Total Cover | |

Dominance Test Worksheet:

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total number of dominant species across all strata: 6 (B)

% Dominant Species that are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index Worksheet:

| Total % Cover of: | | Multiply by: |
|---|---|---|
| OBL Species | 0 | X 1 = 0 |
| FACW Species | 0 | X 2 = 0 |
| FAC Species | 60 | X 3 =180 |
| FACU Species | 40 | X 4 =160 |
| UPL Species | 0 | X 5 =0 |
| Column Totals: | 100 A) | 340 (B) |

Prevalence Index = B/A = 3.4

Hydrophytic Vegetation Indicators:

- ☐ Rapid Test for Hydrophytic Vegetation
- ☐ Dominance Test is >50%
- ☐ Prevalence Index is ≤ 3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☐ No ☒

Definitions of Vegetation Strata:

Trees – Woody plants 3" (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 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.

Remarks: (Include photo numbers here or on a separate sheet).

## SOILS

Sampling Point 2

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth (inches) | Matrix | | Redox Features | | | | | |
| | Color (moist) | % | Color (moist) | % | Type [1] | Loc [2] | Texture | Remarks |
| 0-8 | 10 YR 3/2 | | | | | | Silty sand loam | |
| 8-12 | 10 YR 5/6 | | | | | | Sand | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.
[2] Location: PL=Pore Lining, M=Matrix

| Hydric Soil Indicators: | | Indicators for Problematic Hydric Soils [3]: |
|---|---|---|
| ☐ Histosol (A1) | ☐ Stripped Matrix (S6) | ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| ☐ Histic Epipedon (A2) | ☐ Dark Surface (S7) (LRR R, MLRA 149B) | ☐ Coast Prairie Redox (A16) (LRR K, L, R) |
| ☐ Black Histic (A3) | ☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| ☐ Hydrogen Sulfide (A4) | ☐ Thin Dark Surface (S9) (LRR R, MLRA 149B) | ☐ Dark Surface (S7) (LRR K, L) |
| ☐ Stratified layers (A5) | ☐ Loamy Mucky Mineral (F1) (LRR K, L) | ☐ Polyvalue Below Surface (S8) (LRR K, L) |
| ☐ Depleted Below Dark Surface (A11) | ☐ Loamy Gleyed Matrix (F2) | ☐ Thin Dark Surface (S9) (LRR K, L) |
| ☐ Thick Dark Surface (A12) | ☐ Depleted Matrix (F3) | |
| ☐ Sandy Mucky Mineral (S1) | ☐ Redox Dark Surface (F6) | |
| ☐ Sandy Gleyed Matrix (S4) | ☐ Depleted Dark Surface (F7) | |
| ☐ Sandy Redox (S5) | ☐ Redox Depressions (F8) | |
| | | ☐ Iron-Manganese Masses (F12) (LRR K, L, R) |
| | | ☐ Piedmont Floodplain Soils (F19) (MLRA 149B) |
| | | ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| | | ☐ Red Parent Material (TF2) |
| | | ☐ Very Shallow Dark Surface (TF12) |
| | | ☐ Other (Explain in Remarks |

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

| Restrictive Layer (if observed): | Hydric Soil Present? Yes ☐ | No ☒ |
|---|---|---|
| Type: | | |
| Depth (inches): | | |

Remarks: bright color representing oxidized condition

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

| | | | |
|---|---|---|---|
| Project Site: CNY | City/County: Syracuse | | Sampling Date: 9/22/15 |
| Applicant/Owner: Working Lands | State: New York | | Sampling Point: 3 |
| Investigator(s): John Larson | | Section, Township, Range: | |
| Landform (Hillslope, terrace, etc.) | Local relief (concave, convex, none): | | Slope (%) |
| Subregion (LRR or MLRA): Lat: | Long: | Datum: 43.07586 North latitude and 76.03483 West longitude | |
| Soil Map Unit Name: Naumburg loamy fine sand | | NYSDEC classification: Yes | |
| Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in remarks) | | | |
| Is Significantly Disturbed: | Vegetation?☐ | Soil?☐ | Hydrology?☐ | Are "Normal Circumstances" Present? Yes ☒ No☐ |
| Is Naturally Problematic: | Vegetation?☐ | Soil?☐ | Hydrology?☐ | If needed, explain 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☐<br>If yes, optional Wetland Site ID: |
| Remarks: June was very wet, July, August and September below normal. | | |

## HYDROLOGY

| Wetland Hydrology Indicators: | | |
|---|---|---|
| Primary Indicators (minimum of one is required: check all that apply). | | Secondary Indicators (minimum of 2 required) |
| ☐ Surface Water (A1) | ☐ Water-Stained Leaves (B9) | ☐ Surface Soil Cracks (B6) |
| ☐ High Water Table (A2) | ☐ Aquatic Fauna (B13) | ☐ Drainage Patterns (B10) |
| ☐ Saturation (A3) | ☐ Marl Deposits (B15) | ☐ Moss Trim Lines (B16) |
| ☐ Water Marks (B1) | ☐ Hydrogen Sulfide Odor (C1) | ☐ Dry-Season Water Table (C2) |
| ☐ Sediment Deposits (B2) | ☒ Oxidized Rhizospheres on Living Roots (C3) | ☐ Crayfish Burrows (C8) |
| ☐ Drift Deposits (B3) | ☐ Presence of Reduced Iron (C4) | ☐ Saturation Visible on Aerial Imagery (C9) |
| ☐ Algal Mat or Crust (B4) | ☐ Recent Iron Reduction in Tilled Soils (C6) | ☐ Stunted or Stressed Plants (D1) |
| ☐ Iron Deposits (B5) | ☐ Thin Muck Surface (C7) | ☐ Geomorphic Position (D2) |
| ☐ Inundation Visible on Aerial Imagery (B7) | ☐ Other (Explain in Remarks) | ☐ Shallow Aquitard (D3) |
| ☒ Sparsely Vegetated Concave Surface (B8) | | ☐ Microtopographic Relief (D4) |
| | | ☐ FAC-Neutral Test (D5) |

| Field Observations: | | | |
|---|---|---|---|
| Surface Water Present? Yes ☐ No☒ Depth (inches): | | | Wetland Hydrology Present? |
| Water Table Present? Yes☐ No☒ Depth (inches): | | | Yes ☒ No☐ |
| Saturation Present? Yes ☐ No☒ Depth (inches): | | | |
| (includes capillary fringe) | | | |
| Described Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | |

Remarks:

Occasional swamp white oak-*Quercus bicolor*

Sampling Point: 3

## VEGETATION – Use scientific names of plants

| Tree Stratum (Plot size): | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Acer rubrum* | 50 | Yes | FAC |
| 2. *Nyssa sylvatica* | 25 | Yes | FAC |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | 75 | = Total Cover | |
| Sapling/Shrub Stratum (Plot size): | | | |
| 1. *Acer rubrum* | 10 | Yes | FAC |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | 10 | = Total Cover | |
| Herb Stratum (Plot size): | | | |
| 1. *Rhus radicans* | 20 | Yes | FAC |
| 2. *Onoclea sensibilis* | 5 | No | FACW |
| 3. *Cornus racemosa* | 2 | No | FACW |
| 4. *Viburnum dentatum* | 2 | No | UPL |
| 5. *Spiraea alba* | 1 | No | FACW |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| | 30 | = Total Cover | |
| Woody Vine Stratum (Plot size): | | | |
| 1. | | | |
| 2. | | | |
| | | = Total Cover | |

**Dominance Test Worksheet:**

Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)

Total number of dominant species across all strata: 4 (B)

% Dominant Species that are OBL, FACW, or FAC: 100 (A/B)

**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 =

**Hydrophytic Vegetation Indicators:**

- ☐ Rapid Test for Hydrophytic Vegetation
- ☒ Dominance Test is >50%
- ☐ Prevalence Index is ≤ 3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Definitions of Vegetation Strata:

Trees – Woody plants 3" (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 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.

Remarks: (Include photo numbers here or on a separate sheet).

Sampling Point 3

## SOILS

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|
| | Color (moist) | % | Color (moist) | % | Type [1] | Loc [2] | | |
| 0-11 | 7.5 YR 3/2 | | | | | | sandy loam | |
| 11-16 | 10 YR 5/6 | 75 | | | | | Sandy loam | |
| | 7.5 YR 4/6 | 25 | | | | | sandy loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.
[2] Location: PL=Pore Lining, M=Matrix

| Hydric Soil Indicators: | | Indicators for Problematic Hydric Soils [3]: |
|---|---|---|
| ☐ Histosol (A1) | ☐ Stripped Matrix (S6) | ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| ☐ Histic Epipedon (A2) | ☐ Dark Surface (S7) (LRR R, MLRA 149B) | ☐ Coast Prairie Redox (A16) (LRR K, L, R) |
| ☐ Black Histic (A3) | ☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| ☐ Hydrogen Sulfide (A4) | ☐ Thin Dark Surface (S9) (LRR R, MLRA 149B) | ☐ Dark Surface (S7) (LRR K, L) |
| ☐ Stratified layers (A5) | ☐ Loamy Mucky Mineral (F1) (LRR K, L) | ☐ Polyvalue Below Surface (S8) (LRR K, L) |
| ☐ Depleted Below Dark Surface (A11) | ☐ Loamy Gleyed Matrix (F2) | ☐ Thin Dark Surface (S9) (LRR K, L) |
| ☐ Thick Dark Surface (A12) | ☐ Depleted Matrix (F3) | |
| ☐ Sandy Mucky Mineral (S1) | ☐ Redox Dark Surface (F6) | |
| ☐ Sandy Gleyed Matrix (S4) | ☐ Depleted Dark Surface (F7) | |
| ☐ Sandy Redox (S5) | ☐ Redox Depressions (F8) | |
| | | ☐ Iron-Manganese Masses (F12) (LRR K, L, R) |
| | | ☐ Piedmont Floodplain Soils (F19) (MLRA 149B) |
| | | ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| | | ☐ Red Parent Material (TF2) |
| | | ☐ Very Shallow Dark Surface (TF12) |
| | | ☐ Other (Explain in Remarks |

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

| | | |
|---|---|---|
| Restrictive Layer (if observed): | Hydric Soil Present? Yes ☐ | No ☒ |
| Type: | | |
| Depth (inches): | | |

Remarks:
While soils appeared to be non-hydric the other two indicators were present. This could be a problem area, so delineated as wetland

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

| | | | |
|---|---|---|---|
| Project Site: CNY | | City/County: Syracuse | Sampling Date: 9/22/15 |
| Applicant/Owner: Working Lands | | State: New York | Sampling Point: 4 |
| Investigator(s): John Larson | | Section, Township, Range: | |
| Landform (Hillslope, terrace, etc.) | | Local relief (concave, convex, none): | Slope (%) 2 |
| Subregion (LRR or MLRA): Lat: | | Long: | Datum: 43.07586 North latitude and 76.03483 West longitude |
| Soil Map Unit Name: Lamson very fine sandy loam | | NYSDEC classification: Yes | |
| Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in remarks) | | | |
| Is Significantly Disturbed: | Vegetation?☐ | Soil?☐ | Hydrology?☐ | Are "Normal Circumstances" Present? Yes ☒ No☐ |
| Is Naturally Problematic: | Vegetation?☐ | Soil?☐ | Hydrology?☐ | If needed, explain 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☒<br>If yes, optional Wetland Site ID: |
| Remarks: June was very wet, July, August and September below normal. | | |

## HYDROLOGY

| Wetland Hydrology Indicators: | | |
|---|---|---|
| Primary Indicators (minimum of one is required: check all that apply). | | Secondary Indicators (minimum of 2 required) |
| ☐ Surface Water (A1) | ☐ Water-Stained Leaves (B9) | ☐ Surface Soil Cracks (B6) |
| ☐ High Water Table (A2) | ☐ Aquatic Fauna (B13) | ☐ Drainage Patterns (B10) |
| ☐ Saturation (A3) | ☐ Marl Deposits (B15) | ☐ Moss Trim Lines (B16) |
| ☐ Water Marks (B1) | ☐ Hydrogen Sulfide Odor (C1) | ☐ Dry-Season Water Table (C2) |
| ☐ Sediment Deposits (B2) | ☐ Oxidized Rhizospheres on Living Roots (C3) | ☐ Crayfish Burrows (C8) |
| ☐ Drift Deposits (B3) | ☐ Presence of Reduced Iron (C4) | ☐ Saturation Visible on Aerial Imagery (C9) |
| ☐ Algal Mat or Crust (B4) | ☐ Recent Iron Reduction in Tilled Soils (C6) | ☐ Stunted or Stressed Plants (D1) |
| ☐ Iron Deposits (B5) | ☐ Thin Muck Surface (C7) | ☐ Geomorphic Position (D2) |
| ☐ Inundation Visible on Aerial Imagery (B7) | ☐ Other (Explain in Remarks) | ☐ Shallow Aquitard (D3) |
| ☐ Sparsely Vegetated Concave Surface (B8) | | ☐ Microtopographic Relief (D4) |
| | | ☐ FAC-Neutral Test (D5) |

| Field Observations: | | | |
|---|---|---|---|
| Surface Water Present? Yes ☐ No☒ Depth (inches): | | | Wetland Hydrology Present? |
| Water Table Present? Yes☐ No☒ Depth (inches): | | | |
| Saturation Present? Yes ☐ No☒ Depth (inches): | | | Yes ☐ No☒ |
| (includes capillary fringe) | | | |
| Described Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | |
| Remarks: | | | |

Sampling Point: 4

VEGETATION – Use scientific names of plants

| Tree Stratum (Plot size): | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Acer rubrum* | 15 | Yes | FAC |
| 2. *Populus tremuloides* | 15 | Yes | FACU |
| 3. *Prunus serotina* | 10 | Yes | FACU |
| 4. *Populus deltoides* | 5 | No | FAC |
| 5. | | | |
| | 45 | = Total Cover | |
| Sapling/Shrub Stratum (Plot size): | | | |
| 1. *Fraxinus pennsylvanica* | 5 | Yes | FACW |
| 2. *Lonicera tatarica* | 5 | Yes | UPL |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | 10 | = Total Cover | |
| Herb Stratum (Plot size): | | | |
| 1. *Parthenocissus quinquefolia* | 25 | Yes | FACU |
| 2. *Fraxinus sp.* | 10 | Yes | NI |
| 3. *Fragaria virginiana* | 2 | No | FAC |
| 4. *Rhus radicans* | 5 | No | FAC |
| 5. *Solidago ulmifolia* | 5 | No | UPL |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| | 47 | = Total Cover | |
| Woody Vine Stratum (Plot size): | | | |
| 1. | | | |
| 2. | | | |
| | | = Total Cover | |

Dominance Test Worksheet:

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total number of dominant species across all strata: 6 (B)

% Dominant Species that are OBL, FACW, or FAC: 33 (A/B)

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 =

Hydrophytic Vegetation Indicators:

- ☐ Rapid Test for Hydrophytic Vegetation
- ☐ Dominance Test is >50%
- ☐ Prevalence Index is ≤ 3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☐ No ☒

Definitions of Vegetation Strata:

Trees – Woody plants 3" (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 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.

Remarks: (Include photo numbers here or on a separate sheet).

SOILS

Sampling Point 4

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth (inches) | Matrix | | Redox Features | | | | | |
| | Color (moist) | % | Color (moist) | % | Type [1] | Loc [2] | Texture | Remarks |
| 0-8 | 10 YR 3/2 | | | | | | Sandy loam | |
| 8-16 | 10 YR 4/4 | 95 | | | | | | |
| 16+ | 10 YR 6/2 | 2-3 | 10 YR 5/8 | 2 | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.
[2] Location: PL=Pore Lining, M=Matrix

| Hydric Soil Indicators: | | Indicators for Problematic Hydric Soils [3]: |
|---|---|---|
| ☐ Histosol (A1) | ☐ Stripped Matrix (S6) | ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| ☐ Histic Epipedon (A2) | ☐ Dark Surface (S7) (LRR R, MLRA 149B) | ☐ Coast Prairie Redox (A16) (LRR K, L, R) |
| ☐ Black Histic (A3) | ☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| ☐ Hydrogen Sulfide (A4) | ☐ Thin Dark Surface (S9) (LRR R, MLRA 149B) | ☐ Dark Surface (S7) (LRR K, L) |
| ☐ Stratified layers (A5) | ☐ Loamy Mucky Mineral (F1) (LRR K, L) | ☐ Polyvalue Below Surface (S8) (LRR K, L) |
| ☐ Depleted Below Dark Surface (A11) | ☐ Loamy Gleyed Matrix (F2) | ☐ Thin Dark Surface (S9) (LRR K, L) |
| ☐ Thick Dark Surface (A12) | ☐ Depleted Matrix (F3) | |
| ☐ Sandy Mucky Mineral (S1) | ☐ Redox Dark Surface (F6) | |
| ☐ Sandy Gleyed Matrix (S4) | ☐ Depleted Dark Surface (F7) | |
| ☐ Sandy Redox (S5) | ☐ Redox Depressions (F8) | |
| | | ☐ Iron-Manganese Masses (F12) (LRR K, L, R) |
| | | ☐ Piedmont Floodplain Soils (F19) (MLRA 149B) |
| | | ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| | | ☐ Red Parent Material (TF2) |
| | | ☐ Very Shallow Dark Surface (TF12) |
| | | ☐ Other (Explain in Remarks |

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

| Restrictive Layer (if observed): | Hydric Soil Present? Yes ☐ | No ☒ |
|---|---|---|
| Type: | | |
| Depth (inches): | | |

Remarks:

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

| | | | |
|---|---|---|---|
| Project Site: CNY | City/County: Syracuse | | Sampling Date: 9/22/15 |
| Applicant/Owner: Working Lands | State: New York | | Sampling Point: 5 |
| Investigator(s): John Larson, SV | | Section, Township, Range: | |
| Landform (Hillslope, terrace, etc.) | Local relief (concave, convex, none): | | Slope (%) Flat |
| Subregion (LRR or MLRA): Lat: | Long: | Datum: 43.07586 North latitude and 76.03483 West longitude | |
| Soil Map Unit Name: Niagara silt loam | | NYSDEC classification: Yes | |
| Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in remarks) | | | |
| Is Significantly Disturbed: | Vegetation?☐ | Soil?☐ | Hydrology?☐ | Are "Normal Circumstances" Present? Yes ☒ No☐ |
| Is Naturally Problematic: | Vegetation?☐ | Soil?☐ | Hydrology?☐ | If needed, explain 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☐<br>If yes, optional Wetland Site ID: |
| Remarks: June was very wet, July, August and September below normal. | | |

## HYDROLOGY

| Wetland Hydrology Indicators: | | |
|---|---|---|
| Primary Indicators (minimum of one is required: check all that apply). | | Secondary Indicators (minimum of 2 required) |
| ☐ Surface Water (A1) | ☐ Water-Stained Leaves (B9) | ☒ Surface Soil Cracks (B6) |
| ☐ High Water Table (A2) | ☐ Aquatic Fauna (B13) | ☒ Drainage Patterns (B10) |
| ☐ Saturation (A3) | ☐ Marl Deposits (B15) | ☐ Moss Trim Lines (B16) |
| ☐ Water Marks (B1) | ☐ Hydrogen Sulfide Odor (C1) | ☐ Dry-Season Water Table (C2) |
| ☐ Sediment Deposits (B2) | ☒ Oxidized Rhizospheres on Living Roots (C3) | ☐ Crayfish Burrows (C8) |
| ☐ Drift Deposits (B3) | ☐ Presence of Reduced Iron (C4) | ☐ Saturation Visible on Aerial Imagery (C9) |
| ☐ Algal Mat or Crust (B4) | ☐ Recent Iron Reduction in Tilled Soils (C6) | ☐ Stunted or Stressed Plants (D1) |
| ☐ Iron Deposits (B5) | ☐ Thin Muck Surface (C7) | ☒ Geomorphic Position (D2) |
| ☐ Inundation Visible on Aerial Imagery (B7) | ☐ Other (Explain in Remarks) | ☐ Shallow Aquitard (D3) |
| ☐ Sparsely Vegetated Concave Surface (B8) | | ☒ Microtopographic Relief (D4) |
| | | ☐ 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☐

Described Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Sampling Point: 5

VEGETATION – Use scientific names of plants

| Tree Stratum (Plot size): | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Acer saccharinum* | 50 | Yes | FACW |
| 2. *Ulmus americana* | 10 | No | FACW |
| 3. *Populus tremuloides* | 2 | No | FAC |
| 4. | | | |
| 5. | | | |
| | 62 | = Total Cover | |
| Sapling/Shrub Stratum (Plot size): | | | |
| 1. *Fraxinus pennsylvanica* | 5 | Yes | FACW |
| 2. *Viburnum lentago* | 5 | Yes | FAC |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | 10 | = Total Cover | |
| Herb Stratum (Plot size): | | | |
| 1. *Onoclea sensibilis* | 50 | Yes | FACW |
| 2. *Symphyotrichum umbellatum* | 5 | No | FACW |
| 3. *Chelone glabra* | 2 | No | OBL |
| 4. *Impatiens capensis* | 2 | No | FACW |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| | 59 | = Total Cover | |
| Woody Vine Stratum (Plot size): | | | |
| 1. *Rhus radicans* | 5 | Yes | FAC |
| 2. *Vitis riparia* | 2 | Yes | FACW |
| | 7 | = Total Cover | |

Dominance Test Worksheet:

Number of Dominant Species that are OBL, FACW, or FAC: 6 (A)

Total number of dominant species across all strata: 6 (B)

% Dominant Species that are OBL, FACW, or FAC: 100 (A/B)

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 =

Hydrophytic Vegetation Indicators:

- ☐ Rapid Test for Hydrophytic Vegetation
- ☒ Dominance Test is >50%
- ☐ Prevalence Index is ≤ 3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Definitions of Vegetation Strata:

Trees – Woody plants 3" (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 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.

Remarks: (Include photo numbers here or on a separate sheet).

## SOILS

Sampling Point 5

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth (inches) | Matrix | | Redox Features | | | | | |
| | Color (moist) | % | Color (moist) | % | Type [1] | Loc [2] | Texture | Remarks |
| 0-8 | 10 YR 2/1 | | | | | | Silt loam | |
| 8-16 | 10 YR 2/1 | 80 | 10YR 4/2 | 80 | D | M | silt loam | |
| | | | | | | | | |
| Depletion | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.
[2] Location: PL=Pore Lining, M=Matrix

| Hydric Soil Indicators: | | Indicators for Problematic Hydric Soils [3]: |
|---|---|---|
| ☐ Histosol (A1) | ☐ Stripped Matrix (S6) | ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| ☐ Histic Epipedon (A2) | ☐ Dark Surface (S7) (LRR R, MLRA 149B) | ☐ Coast Prairie Redox (A16) (LRR K, L, R) |
| ☐ Black Histic (A3) | ☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| ☐ Hydrogen Sulfide (A4) | ☐ Thin Dark Surface (S9) (LRR R, MLRA 149B) | ☐ Dark Surface (S7) (LRR K, L) |
| ☐ Stratified layers (A5) | ☐ Loamy Mucky Mineral (F1) (LRR K, L) | ☐ Polyvalue Below Surface (S8) (LRR K, L) |
| ☐ Depleted Below Dark Surface (A11) | ☐ Loamy Gleyed Matrix (F2) | ☐ Thin Dark Surface (S9) (LRR K, L) |
| ☐ Thick Dark Surface (A12) | ☐ Depleted Matrix (F3) | |
| ☐ Sandy Mucky Mineral (S1) | ☒ Redox Dark Surface (F6) | |
| ☐ Sandy Gleyed Matrix (S4) | ☐ Depleted Dark Surface (F7) | |
| ☐ Sandy Redox (S5) | ☐ Redox Depressions (F8) | |
| | | ☐ Iron-Manganese Masses (F12) (LRR K, L, R) |
| | | ☐ Piedmont Floodplain Soils (F19) (MLRA 149B) |
| | | ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| | | ☐ Red Parent Material (TF2) |
| | | ☐ Very Shallow Dark Surface (TF12) |
| | | ☐ Other (Explain in Remarks |

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

| Restrictive Layer (if observed): | Hydric Soil Present? Yes ☒ | No ☐ |
|---|---|---|
| Type: | | |
| Depth (inches): | | |

Remarks:

Depleted matrix
Gley mixed in soils

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

| | | | |
|---|---|---|---|
| Project Site: CNY | City/County: Syracuse | | Sampling Date: 9/22/15 |
| Applicant/Owner: Working Lands | State: New York | | Sampling Point: 6 |
| Investigator(s): John Larson, MM | | Section, Township, Range: | |
| Landform (Hillslope, terrace, etc.) | Local relief (concave, convex, none): | | Slope (%) 2-3 |
| Subregion (LRR or MLRA): Lat: | Long: | Datum: 43.07586 North latitude and 76.03483 West longitude | |
| Soil Map Unit Name: Galen very fine sandy loam | | NYSDEC classification: Yes | |
| Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in remarks) | | | |
| Is Significantly Disturbed: | Vegetation?☐ | Soil?☐ | Hydrology?☐ | Are "Normal Circumstances" Present? Yes ☒ No☐ |
| Is Naturally Problematic: | Vegetation?☐ | Soil?☐ | Hydrology?☐ | If needed, explain 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☒<br>If yes, optional Wetland Site ID: |
| Remarks: June was very wet, July, August and September below normal. | | |

## HYDROLOGY

| Wetland Hydrology Indicators: | | |
|---|---|---|
| Primary Indicators (minimum of one is required: check all that apply). | | Secondary Indicators (minimum of 2 required) |
| ☐ Surface Water (A1) | ☐ Water-Stained Leaves (B9) | ☐ Surface Soil Cracks (B6) |
| ☐ High Water Table (A2) | ☐ Aquatic Fauna (B13) | ☐ Drainage Patterns (B10) |
| ☐ Saturation (A3) | ☐ Marl Deposits (B15) | ☐ Moss Trim Lines (B16) |
| ☐ Water Marks (B1) | ☐ Hydrogen Sulfide Odor (C1) | ☐ Dry-Season Water Table (C2) |
| ☐ Sediment Deposits (B2) | ☐ Oxidized Rhizospheres on Living Roots (C3) | ☐ Crayfish Burrows (C8) |
| ☐ Drift Deposits (B3) | ☐ Presence of Reduced Iron (C4) | ☐ Saturation Visible on Aerial Imagery (C9) |
| ☐ Algal Mat or Crust (B4) | ☐ Recent Iron Reduction in Tilled Soils (C6) | ☐ Stunted or Stressed Plants (D1) |
| ☐ Iron Deposits (B5) | ☐ Thin Muck Surface (C7) | ☐ Geomorphic Position (D2) |
| ☐ Inundation Visible on Aerial Imagery (B7) | ☐ Other (Explain in Remarks) | ☐ Shallow Aquitard (D3) |
| ☐ Sparsely Vegetated Concave Surface (B8) | | ☐ Microtopographic Relief (D4) |
| | | ☐ FAC-Neutral Test (D5) |

| Field Observations: | | | | |
|---|---|---|---|---|
| Surface Water Present? | Yes ☐ | No☒ | Depth (inches): | Wetland Hydrology Present? |
| Water Table Present? | Yes☐ | No☒ | Depth (inches): | Yes ☐ No☒ |
| Saturation Present? (includes capillary fringe) | Yes ☐ | No☒ | Depth (inches): | |
| Described Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | | |
| Remarks: | | | | |

Sampling Point: 6

VEGETATION – Use scientific names of plants

| Tree Stratum (Plot size): | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Acer rubrum* | 25 | Yes | FAC |
| 2. *Ulmus americana* | 10 | Yes | FACW |
| 3. *Nyssa sylvatica* | 10 | Yes | FAC |
| 4. | | | |
| 5. | | | |
| | 45 | = Total Cover | |
| Sapling/Shrub Stratum (Plot size): | | | |
| 1. *Prunus serotina* | 10 | Yes | FACU |
| 2. *Acer rubrum* | 5 | Yes | FAC |
| 3. *Fraxinus americana* | 2 | No | FACU |
| 4. | | | |
| 5. | | | |
| | 17 | = Total Cover | |
| Herb Stratum (Plot size): | | | |
| 1. *Parthenocissus quinquefolia* | 75 | Yes | FACU |
| 2. *Solidago ulmifolia* | 2 | No | UPL |
| 3. *Prunus serotina* | 5 | No | FACU |
| 4. *Onoclea sensibilis* | 2 | No | FACW |
| 5. *Rhus radicans* | 2 | No | FAC |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| | 86 | = Total Cover | |
| Woody Vine Stratum (Plot size): | | | |
| 1. | | | |
| 2. | | | |
| | | = Total Cover | |

Dominance Test Worksheet:

Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)

Total number of dominant species across all strata: 6 (B)

% Dominant Species that are OBL, FACW, or FAC: 66 (A/B)

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 =

Hydrophytic Vegetation Indicators:

- ☐ Rapid Test for Hydrophytic Vegetation
- ☒ Dominance Test is >50%
- ☐ Prevalence Index is ≤ 3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Definitions of Vegetation Strata:

Trees – Woody plants 3" (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 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.

Remarks: (Include photo numbers here or on a separate sheet).

Sampling Point 6

## SOILS

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|
| | Color (moist) | % | Color (moist) | % | Type [1] | Loc [2] | | |
| 0-10 | 10 YR 5/2 | | | | | | Sandy silt loam | |
| 10-16 | 10 YR 5/6 | | | | | | sandy silt loam | |
| 16+ | 10 YR 5/3 | 5 | 10 YR 4/6 | | | | Sandy silt loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.
[2] Location: PL=Pore Lining, M=Matrix

| Hydric Soil Indicators: | | Indicators for Problematic Hydric Soils [3]: |
|---|---|---|
| ☐ Histosol (A1) | ☐ Stripped Matrix (S6) | ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| ☐ Histic Epipedon (A2) | ☐ Dark Surface (S7) (LRR R, MLRA 149B) | ☐ Coast Prairie Redox (A16) (LRR K, L, R) |
| ☐ Black Histic (A3) | ☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| ☐ Hydrogen Sulfide (A4) | ☐ Thin Dark Surface (S9) (LRR R, MLRA 149B) | ☐ Dark Surface (S7) (LRR K, L) |
| ☐ Stratified layers (A5) | ☐ Loamy Mucky Mineral (F1) (LRR K, L) | ☐ Polyvalue Below Surface (S8) (LRR K, L) |
| ☐ Depleted Below Dark Surface (A11) | ☐ Loamy Gleyed Matrix (F2) | ☐ Thin Dark Surface (S9) (LRR K, L) |
| ☐ Thick Dark Surface (A12) | ☐ Depleted Matrix (F3) | |
| ☐ Sandy Mucky Mineral (S1) | ☐ Redox Dark Surface (F6) | |
| ☐ Sandy Gleyed Matrix (S4) | ☐ Depleted Dark Surface (F7) | |
| ☐ Sandy Redox (S5) | ☐ Redox Depressions (F8) | |
| | | ☐ Iron-Manganese Masses (F12) (LRR K, L, R) |
| | | ☐ Piedmont Floodplain Soils (F19) (MLRA 149B) |
| | | ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| | | ☐ Red Parent Material (TF2) |
| | | ☐ Very Shallow Dark Surface (TF12) |
| | | ☐ Other (Explain in Remarks |

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

| Restrictive Layer (if observed): | Hydric Soil Present? Yes ☐ | No ☒ |
|---|---|---|
| Type: | | |
| Depth (inches): | | |

Remarks:
Bright color (oxidized at depth)

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

| | | | |
|---|---|---|---|
| Project Site: CNY | City/County: Syracuse | | Sampling Date: 9/22/15 |
| Applicant/Owner: Working Lands | State: New York | | Sampling Point: 7 |
| Investigator(s): JLL, MM | | Section, Township, Range: | |
| Landform (Hillslope, terrace, etc.) | Local relief (concave, convex, none): Convex | | Slope (%) |
| Subregion (LRR or MLRA): Lat: | Long: | Datum: 43.07586 North latitude and 76.03483 West longitude | |
| Soil Map Unit Name: Niagara silt loam | | NYSDEC/NWI classification: No | |
| Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in remarks) | | | |
| Is Significantly Disturbed: | Vegetation? ☐ | Soil? ☐ | Hydrology? ☐ | Are "Normal Circumstances" Present? Yes ☒ No ☐ |
| Is Naturally Problematic: | Vegetation? ☐ | Soil? ☐ | Hydrology? ☐ | If needed, explain 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 ☒<br>If yes, optional Wetland Site ID: |
| Remarks: June was very wet, July, August and September below normal. | | |

## HYDROLOGY

| Wetland Hydrology Indicators: | | |
|---|---|---|
| Primary Indicators (minimum of one is required: check all that apply). | | Secondary Indicators (minimum of 2 required) |
| ☐ Surface Water (A1) | ☐ Water-Stained Leaves (B9) | ☐ Surface Soil Cracks (B6) |
| ☐ High Water Table (A2) | ☐ Aquatic Fauna (B13) | ☐ Drainage Patterns (B10) |
| ☐ Saturation (A3) | ☐ Marl Deposits (B15) | ☐ Moss Trim Lines (B16) |
| ☐ Water Marks (B1) | ☐ Hydrogen Sulfide Odor (C1) | ☐ Dry-Season Water Table (C2) |
| ☐ Sediment Deposits (B2) | ☐ Oxidized Rhizospheres on Living Roots (C3) | ☐ Crayfish Burrows (C8) |
| ☐ Drift Deposits (B3) | ☐ Presence of Reduced Iron (C4) | ☐ Saturation Visible on Aerial Imagery (C9) |
| ☐ Algal Mat or Crust (B4) | ☐ Recent Iron Reduction in Tilled Soils (C6) | ☐ Stunted or Stressed Plants (D1) |
| ☐ Iron Deposits (B5) | ☐ Thin Muck Surface (C7) | ☐ Geomorphic Position (D2) |
| ☐ Inundation Visible on Aerial Imagery (B7) | ☐ Other (Explain in Remarks) | ☐ Shallow Aquitard (D3) |
| ☐ Sparsely Vegetated Concave Surface (B8) | | ☐ Microtopographic Relief (D4) |
| | | ☐ FAC-Neutral Test (D5) |

| | | | | |
|---|---|---|---|---|
| Field Observations: | | | | Wetland Hydrology Present? |
| Surface Water Present? | Yes ☐ | No ☒ | Depth (inches): | Yes ☐ No ☒ |
| Water Table Present? | Yes ☐ | No ☒ | Depth (inches): | |
| Saturation Present? (includes capillary fringe) | Yes ☐ | No ☒ | Depth (inches): | |
| Described Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | | |

Remarks:

Soil dry sandy.

VEGETATION – Use scientific names of plants

Sampling Point: 7

| Tree Stratum (Plot size): | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Prunus serotina* | 25 | Yes | FACU |
| 2. *Acer rubrum* | 25 | Yes | FAC |
| 3. *Ulmus americana* | 5 | No | FACW |
| 4. | | | |
| 5. | | | |
| | 55 | = Total Cover | |
| Sapling/Shrub Stratum (Plot size): | | | |
| 1. *Acer rubrum* | 10 | Yes | FAC |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | 10 | = Total Cover | |
| Herb Stratum (Plot size): | | | |
| 1. *Parthenocissus quinquefolia* | 75 | Yes | FACU |
| 2. *Rhus radicans* | 5 | No | FAC |
| 3. *Quercus rubra* | 1 | No | FACU |
| 4. *Rhamnus cathartica* | 3 | No | FAC |
| 5. *Prunus virginiana* | 2 | No | FACU |
| 6. *Rubus allegheniensis* | 2 | No | FACU |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| | 88 | = Total Cover | |
| Woody Vine Stratum (Plot size): | | | |
| 1. *Vitis riparia* | 3 | No | FACW |
| 2. | | | |
| | 3 | = Total Cover | |

Dominance Test Worksheet:

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total number of dominant species across all strata: 4 (B)

% Dominant Species that are OBL, FACW, or FAC: 50 (A/B)

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 =

Hydrophytic Vegetation Indicators:

- ☐ Rapid Test for Hydrophytic Vegetation
- ☐ Dominance Test is >50%
- ☐ Prevalence Index is ≤ 3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☐ No ☒

Definitions of Vegetation Strata:

Trees – Woody plants 3" (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 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.

Remarks: (Include photo numbers here or on a separate sheet).

Convex knoll – soils not hydric

Sampling Point 7

## SOILS

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|
| | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | | |
| 0-8 | 10 YR 3/2 | | | | | | Sandy silt loam | |
| 8-12 | 10 YR 3/4 | | 10 YR 4/4 | | | | Sandy loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.
[2] Location: PL=Pore Lining, M=Matrix

| Hydric Soil Indicators: | | Indicators for Problematic Hydric Soils [3]: |
|---|---|---|
| ☐ Histosol (A1) | ☐ Stripped Matrix (S6) | ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| ☐ Histic Epipedon (A2) | ☐ Dark Surface (S7) (LRR R, MLRA 149B) | ☐ Coast Prairie Redox (A16) (LRR K, L, R) |
| ☐ Black Histic (A3) | ☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| ☐ Hydrogen Sulfide (A4) | ☐ Thin Dark Surface (S9) (LRR R, MLRA 149B) | ☐ Dark Surface (S7) (LRR K, L) |
| ☐ Stratified layers (A5) | ☐ Loamy Mucky Mineral (F1) (LRR K, L) | ☐ Polyvalue Below Surface (S8) (LRR K, L) |
| ☐ Depleted Below Dark Surface (A11) | ☐ Loamy Gleyed Matrix (F2) | ☐ Thin Dark Surface (S9) (LRR K, L) |
| ☐ Thick Dark Surface (A12) | ☐ Depleted Matrix (F3) | |
| ☐ Sandy Mucky Mineral (S1) | ☐ Redox Dark Surface (F6) | |
| ☐ Sandy Gleyed Matrix (S4) | ☐ Depleted Dark Surface (F7) | |
| ☐ Sandy Redox (S5) | ☐ Redox Depressions (F8) | |
| | | ☐ Iron-Manganese Masses (F12) (LRR K, L, R) |
| | | ☐ Piedmont Floodplain Soils (F19) (MLRA 149B) |
| | | ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| | | ☐ Red Parent Material (TF2) |
| | | ☐ Very Shallow Dark Surface (TF12) |
| | | ☐ Other (Explain in Remarks |

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

| Restrictive Layer (if observed): | Hydric Soil Present? Yes ☐ | No ☒ |
|---|---|---|
| Type: | | |
| Depth (inches): | | |

Remarks:

Bright soils at depth (brownish)

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

| | | | |
|---|---|---|---|
| Project Site: CNY | City/County: Syracuse | | Sampling Date: 9/22/15 |
| Applicant/Owner: Working Lands | State: New York | | Sampling Point: 8 |
| Investigator(s): JLL, MM | | Section, Township, Range: | |
| Landform (Hillslope, terrace, etc.) | Local relief (concave, convex, none): | | Slope (%) concave swale |
| Subregion (LRR or MLRA): Lat: | Long: | Datum: 43.07586 North latitude and 76.03483 West longitude | |
| Soil Map Unit Name: Galen very fine sandy loam | | NYSDEC classification: Yes | |
| Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in remarks) | | | |
| Is Significantly Disturbed: | Vegetation?☐ | Soil?☐ | Hydrology?☐ | Are "Normal Circumstances" Present? Yes ☒ No☐ |
| Is Naturally Problematic: | Vegetation?☐ | Soil?☐ | Hydrology?☐ | If needed, explain 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☐<br>If yes, optional Wetland Site ID: |
| Remarks: June was very wet, July, August and September below normal. | | |

## HYDROLOGY

| Wetland Hydrology Indicators: | | |
|---|---|---|
| Primary Indicators (minimum of one is required: check all that apply). | | Secondary Indicators (minimum of 2 required) |
| ☐ Surface Water (A1) | ☒ Water-Stained Leaves (B9) | ☒ Surface Soil Cracks (B6) |
| ☐ High Water Table (A2) | ☐ Aquatic Fauna (B13) | ☒ Drainage Patterns (B10) |
| ☐ Saturation (A3) | ☐ Marl Deposits (B15) | ☐ Moss Trim Lines (B16) |
| ☐ Water Marks (B1) | ☐ Hydrogen Sulfide Odor (C1) | ☐ Dry-Season Water Table (C2) |
| ☒ Sediment Deposits (B2) | ☐ Oxidized Rhizospheres on Living Roots (C3) | ☐ Crayfish Burrows (C8) |
| ☐ Drift Deposits (B3) | ☐ Presence of Reduced Iron (C4) | ☐ Saturation Visible on Aerial Imagery (C9) |
| ☐ Algal Mat or Crust (B4) | ☐ Recent Iron Reduction in Tilled Soils (C6) | ☐ Stunted or Stressed Plants (D1) |
| ☐ Iron Deposits (B5) | ☐ Thin Muck Surface (C7) | ☐ Geomorphic Position (D2) |
| ☐ Inundation Visible on Aerial Imagery (B7) | ☐ Other (Explain in Remarks) | ☐ Shallow Aquitard (D3) |
| ☒ Sparsely Vegetated Concave Surface (B8) | | ☐ Microtopographic Relief (D4) |
| | | ☐ FAC-Neutral Test (D5) |

| Field Observations: | | | |
|---|---|---|---|
| Surface Water Present? Yes ☐ No☒ Depth (inches): | | | Wetland Hydrology Present? |
| Water Table Present? Yes☐ No☒ Depth (inches): | | | Yes ☒ No☐ |
| Saturation Present? Yes ☐ No☒ Depth (inches): | | | |
| (includes capillary fringe) | | | |
| Described Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | |
| Remarks:<br><br>Swale between data points 6 and 9. | | | |

Sampling Point: 8

VEGETATION – Use scientific names of plants

| Tree Stratum (Plot size): | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Acer rubrum* | 20 | Yes | FAC |
| 2. *Ulmus americana* | 70 | Yes | FACW |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | 90 | = Total Cover | |
| Sapling/Shrub Stratum (Plot size): | | | |
| 1. *Ulmus americana* | 10 | Yes | FACW |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | 10 | = Total Cover | |
| Herb Stratum (Plot size): | | | |
| 1. *Lindera benzoin* | 5 | Yes | FACW |
| 2. *Rhus radicans* | 2 | Yes | FAC |
| 3. *Acer rubrum* | 1 | No | FAC |
| 4. *Symphyotrichum lateriflorum* | 2 | Yes | FACW |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| | 10 | = Total Cover | |
| Woody Vine Stratum (Plot size): | | | |
| 1. | | | |
| 2. | | | |
| | 0 | = Total Cover | |

Dominance Test Worksheet:

Number of Dominant Species that are OBL, FACW, or FAC: _6 (A)

Total number of dominant species across all strata: 6 (B)

% Dominant Species that are OBL, FACW, or FAC: 100 (A/B)

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 =

Hydrophytic Vegetation Indicators:

- ☐ Rapid Test for Hydrophytic Vegetation
- ☒ Dominance Test is >50%
- ☐ Prevalence Index is ≤ 3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Definitions of Vegetation Strata:

Trees – Woody plants 3" (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 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.

Remarks: (Include photo numbers here or on a separate sheet).

## SOILS

Sampling Point 8

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth (inches) | Matrix | | Redox Features | | | | | |
| | Color (moist) | % | Color (moist) | % | Type [1] | Loc [2] | Texture | Remarks |
| 0-8 | 10 YR 2/1 | | | | | | Sandy loam | |
| 8-16 | 10 YR 2/1 | | 10YR 5/2 | 2-3 | D | N | sandy loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.
[2] Location: PL=Pore Lining, M=Matrix

| Hydric Soil Indicators: | | Indicators for Problematic Hydric Soils [3]: |
|---|---|---|
| ☐ Histosol (A1) | ☐ Stripped Matrix (S6) | ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| ☐ Histic Epipedon (A2) | ☐ Dark Surface (S7) (LRR R, MLRA 149B) | ☐ Coast Prairie Redox (A16) (LRR K, L, R) |
| ☐ Black Histic (A3) | ☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| ☐ Hydrogen Sulfide (A4) | ☐ Thin Dark Surface (S9) (LRR R, MLRA 149B) | ☐ Dark Surface (S7) (LRR K, L) |
| ☐ Stratified layers (A5) | ☐ Loamy Mucky Mineral (F1) (LRR K, L) | ☐ Polyvalue Below Surface (S8) (LRR K, L) |
| ☐ Depleted Below Dark Surface (A11) | ☐ Loamy Gleyed Matrix (F2) | ☐ Thin Dark Surface (S9) (LRR K, L) |
| ☒ Thick Dark Surface (A12) | ☐ Depleted Matrix (F3) | |
| ☐ Sandy Mucky Mineral (S1) | ☐ Redox Dark Surface (F6) | |
| ☐ Sandy Gleyed Matrix (S4) | ☐ Depleted Dark Surface (F7) | |
| ☐ Sandy Redox (S5) | ☐ Redox Depressions (F8) | |
| | | ☐ Iron-Manganese Masses (F12) (LRR K, L, R) |
| | | ☐ Piedmont Floodplain Soils (F19) (MLRA 149B) |
| | | ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| | | ☐ Red Parent Material (TF2) |
| | | ☐ Very Shallow Dark Surface (TF12) |
| | | ☐ Other (Explain in Remarks |

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

| Restrictive Layer (if observed): | Hydric Soil Present? Yes ☒ | No ☐ |
|---|---|---|
| Type: | | |
| Depth (inches): | | |

Remarks:

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

| | | | |
|---|---|---|---|
| Project Site: CNY | City/County: Syracuse | | Sampling Date: 9/22/15 |
| Applicant/Owner: Working Lands | State: New York | | Sampling Point: 9 |
| Investigator(s): John Larson | | Section, Township, Range: | |
| Landform (Hillslope, terrace, etc.) Convex | Local relief (concave, convex, none): Convex | | Slope (%)1-3 |
| Subregion (LRR or MLRA): Lat: | Long: | Datum: 43.07586 North latitude and 76.03483 West longitude | |
| Soil Map Unit Name: Galen very fine sandy loam | | NYSEDC/NWI classification: No | |
| Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in remarks) | | | |
| Is Significantly Disturbed: | Vegetation?☐ | Soil?☐ | Hydrology?☐ | Are "Normal Circumstances" Present? Yes ☒ No☐ |
| Is Naturally Problematic: | Vegetation?☐ | Soil?☐ | Hydrology?☐ | If needed, explain 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☒<br>If yes, optional Wetland Site ID: |
| Remarks: June was very wet, July, August and September below normal. | | |

## HYDROLOGY

| Wetland Hydrology Indicators: | | |
|---|---|---|
| Primary Indicators (minimum of one is required: check all that apply). | | Secondary Indicators (minimum of 2 required) |
| ☐ Surface Water (A1) | ☐ Water-Stained Leaves (B9) | ☐ Surface Soil Cracks (B6) |
| ☐ High Water Table (A2) | ☐ Aquatic Fauna (B13) | ☐ Drainage Patterns (B10) |
| ☐ Saturation (A3) | ☐ Marl Deposits (B15) | ☐ Moss Trim Lines (B16) |
| ☐ Water Marks (B1) | ☐ Hydrogen Sulfide Odor (C1) | ☐ Dry-Season Water Table (C2) |
| ☐ Sediment Deposits (B2) | ☐ Oxidized Rhizospheres on Living Roots (C3) | ☐ Crayfish Burrows (C8) |
| ☐ Drift Deposits (B3) | ☐ Presence of Reduced Iron (C4) | ☐ Saturation Visible on Aerial Imagery (C9) |
| ☐ Algal Mat or Crust (B4) | ☐ Recent Iron Reduction in Tilled Soils (C6) | ☐ Stunted or Stressed Plants (D1) |
| ☐ Iron Deposits (B5) | ☐ Thin Muck Surface (C7) | ☐ Geomorphic Position (D2) |
| ☐ Inundation Visible on Aerial Imagery (B7) | ☐ Other (Explain in Remarks) | ☐ Shallow Aquitard (D3) |
| ☐ Sparsely Vegetated Concave Surface (B8) | | ☐ Microtopographic Relief (D4) |
| | | ☐ FAC-Neutral Test (D5) |

| Field Observations: | | | |
|---|---|---|---|
| Surface Water Present? | Yes ☐ | No☒ | Depth (inches): |
| Water Table Present? | Yes☐ | No☒ | Depth (inches): |
| Saturation Present? (includes capillary fringe) | Yes ☐ | No☒ | Depth (inches): |

Wetland Hydrology Present? Yes ☐ No☒

Described Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Sampling Point: 9

## VEGETATION – Use scientific names of plants

| Tree Stratum (Plot size): | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Acer rubrum* | 50 | Yes | FAC |
| 2. *Prunus serotina* | 20 | Yes | FACU |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | 70 | = Total Cover | |
| Sapling/Shrub Stratum (Plot size): | | | |
| 1. *Prunus serotina* | 10 | Yes | FACU |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | 10 | = Total Cover | |
| Herb Stratum (Plot size): | | | |
| 1. *Parthenocissus quinquefolia* | 75 | Yes | FACU |
| 2. *Prunus serotina* | 2 | No | FACU |
| 3. *Rhus radicans* | 5 | No | FAC |
| 4. *Carya ovata* | 3 | No | FACU |
| 5. *Prunus virginiana* | 3 | No | FACU |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| | 88 | = Total Cover | |
| Woody Vine Stratum (Plot size): | | | |
| 1. *Vitis riparia* | 3 | No | FACW |
| 2. | | | |
| | 3 | = Total Cover | |

Dominance Test Worksheet:

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total number of dominant species across all strata: 4 (B)

% Dominant Species that are OBL, FACW, or FAC: 25 (A/B)

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 =

Hydrophytic Vegetation Indicators:

- ☐ Rapid Test for Hydrophytic Vegetation
- ☐ Dominance Test is >50%
- ☐ Prevalence Index is ≤ 3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☐ No ☒

Definitions of Vegetation Strata:

Trees – Woody plants 3" (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 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.

Remarks: (Include photo numbers here or on a separate sheet).

## SOILS

Sampling Point 9

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth (inches) | Matrix | | Redox Features | | | | | |
| | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0-8 | 10 YR 3/2 | | | | | | Sandy loam | |
| 8-14 | 7.5 YR 4/6 | | | | | | Sand | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.
[2] Location: PL=Pore Lining, M=Matrix

| Hydric Soil Indicators: | | Indicators for Problematic Hydric Soils [3]: |
|---|---|---|
| ☐ Histosol (A1) | ☐ Stripped Matrix (S6) | ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| ☐ Histic Epipedon (A2) | ☐ Dark Surface (S7) (LRR R, MLRA 149B) | ☐ Coast Prairie Redox (A16) (LRR K, L, R) |
| ☐ Black Histic (A3) | ☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| ☐ Hydrogen Sulfide (A4) | ☐ Thin Dark Surface (S9) (LRR R, MLRA 149B) | ☐ Dark Surface (S7) (LRR K, L) |
| ☐ Stratified layers (A5) | ☐ Loamy Mucky Mineral (F1) (LRR K, L) | ☐ Polyvalue Below Surface (S8) (LRR K, L) |
| ☐ Depleted Below Dark Surface (A11) | ☐ Loamy Gleyed Matrix (F2) | ☐ Thin Dark Surface (S9) (LRR K, L) |
| ☐ Thick Dark Surface (A12) | ☐ Depleted Matrix (F3) | |
| ☐ Sandy Mucky Mineral (S1) | ☐ Redox Dark Surface (F6) | |
| ☐ Sandy Gleyed Matrix (S4) | ☐ Depleted Dark Surface (F7) | |
| ☐ Sandy Redox (S5) | ☐ Redox Depressions (F8) | |
| | | ☐ Iron-Manganese Masses (F12) (LRR K, L, R) |
| | | ☐ Piedmont Floodplain Soils (F19) (MLRA 149B) |
| | | ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| | | ☐ Red Parent Material (TF2) |
| | | ☐ Very Shallow Dark Surface (TF12) |
| | | ☐ Other (Explain in Remarks |

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

| Restrictive Layer (if observed): | Hydric Soil Present? Yes ☐ | No ☒ |
|---|---|---|
| Type: | | |
| Depth (inches): | | |

Remarks:

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

| | | | |
|---|---|---|---|
| Project Site: CNY | | City/County: Syracuse | Sampling Date: 9/22/15 |
| Applicant/Owner: Working Lands | | State: New York | Sampling Point: 10 |
| Investigator(s): John Larson | | Section, Township, Range: | |
| Landform (Hillslope, terrace, etc.) | | Local relief (concave, convex, none): convex | Slope (%) |
| Subregion (LRR or MLRA): | Lat: | Long: | Datum: 43.07586 North latitude and 76.03483 West longitude |
| Soil Map Unit Name: Minoa fine sandy loam | | | NYSDEC classification: Yes |
| Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in remarks) | | | |
| Is Significantly Disturbed: | Vegetation? ☐ | Soil? ☐ | Hydrology? ☐ | Are "Normal Circumstances" Present? Yes ☒ No ☐ |
| Is Naturally Problematic: | Vegetation? ☐ | Soil? ☐ | Hydrology? ☐ | If needed, explain 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 ☒<br>If yes, optional Wetland Site ID: |
| Remarks: June was very wet, July, August and September below normal. | | |

## HYDROLOGY

| Wetland Hydrology Indicators: | | |
|---|---|---|
| Primary Indicators (minimum of one is required: check all that apply). | | Secondary Indicators (minimum of 2 required) |
| ☐ Surface Water (A1) | ☐ Water-Stained Leaves (B9) | ☐ Surface Soil Cracks (B6) |
| ☐ High Water Table (A2) | ☐ Aquatic Fauna (B13) | ☐ Drainage Patterns (B10) |
| ☐ Saturation (A3) | ☐ Marl Deposits (B15) | ☐ Moss Trim Lines (B16) |
| ☐ Water Marks (B1) | ☐ Hydrogen Sulfide Odor (C1) | ☐ Dry-Season Water Table (C2) |
| ☐ Sediment Deposits (B2) | ☐ Oxidized Rhizospheres on Living Roots (C3) | ☐ Crayfish Burrows (C8) |
| ☐ Drift Deposits (B3) | ☐ Presence of Reduced Iron (C4) | ☐ Saturation Visible on Aerial Imagery (C9) |
| ☐ Algal Mat or Crust (B4) | ☐ Recent Iron Reduction in Tilled Soils (C6) | ☐ Stunted or Stressed Plants (D1) |
| ☐ Iron Deposits (B5) | ☐ Thin Muck Surface (C7) | ☐ Geomorphic Position (D2) |
| ☐ Inundation Visible on Aerial Imagery (B7) | ☐ Other (Explain in Remarks) | ☐ Shallow Aquitard (D3) |
| ☐ Sparsely Vegetated Concave Surface (B8) | | ☐ Microtopographic Relief (D4) |
| | | ☐ FAC-Neutral Test (D5) |

| Field Observations: | | | | |
|---|---|---|---|---|
| Surface Water Present? | Yes ☐ | No ☒ | Depth (inches): | Wetland Hydrology Present? |
| Water Table Present? | Yes ☐ | No ☒ | Depth (inches): | Yes ☐ No ☒ |
| Saturation Present? (includes capillary fringe) | Yes ☐ | No ☒ | Depth (inches): | |
| Described Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | | |

Remarks:

Upland Knoll

Sampling Point: 10

VEGETATION – Use scientific names of plants

| Tree Stratum (Plot size): | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Acer rubrum* | 70 | Yes | FAC |
| 2. *Prunus serotina* | 10 | No | FACU |
| 3. *Ulmus americana* | 10 | No | FACW |
| 4. | | | |
| 5. | | | |
| | 90 | = Total Cover | |
| Sapling/Shrub Stratum (Plot size): | | | |
| 1. *Prunus serotina* | 25 | Yes | FACU |
| 2. *Nyssa sylvatica* | 10 | Yes | FAC |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | 35 | = Total Cover | |
| Herb Stratum (Plot size): | | | |
| 1. *Parthenocissus quinquefolia* | 25 | Yes | FACU |
| 2. *Rhus radicans* | 20 | Yes | FAC |
| 3. *Glyceria striata* | 10 | No | FACW |
| 4. *Circaea lutetiana canadensis* | 2 | No | FACU |
| 5. *Onoclea sensibilis* | 5 | No | FACW |
| 6. *Fragaria virginiana* | 3 | No | FAC |
| 7. *Polygonum virginianum* | 2 | No | FAC |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| | 67 | = Total Cover | |
| Woody Vine Stratum (Plot size): | | | |
| 1. | | | |
| 2. | | | |
| | | = Total Cover | |

Dominance Test Worksheet:

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total number of dominant species across all strata: 5 (B)

% Dominant Species that are OBL, FACW, or FAC: 60 (A/B)

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 =

Hydrophytic Vegetation Indicators:

- ☐ Rapid Test for Hydrophytic Vegetation
- ☒ Dominance Test is >50%
- ☐ Prevalence Index is ≤ 3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Definitions of Vegetation Strata:

Trees – Woody plants 3" (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 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.

Remarks: (Include photo numbers here or on a separate sheet).

## SOILS

Sampling Point 10

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth (inches) | Matrix | | Redox Features | | | | | |
| | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0-8 | 10 YR 4/2 | | | | | | Sandy loam | |
| 8-12+ | 10 YR 5/4 | | | | | | Clay in soils | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.
[2] Location: PL=Pore Lining, M=Matrix

| Hydric Soil Indicators: | | Indicators for Problematic Hydric Soils [3]: |
|---|---|---|
| ☐ Histosol (A1) | ☐ Stripped Matrix (S6) | ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| ☐ Histic Epipedon (A2) | ☐ Dark Surface (S7) (LRR R, MLRA 149B) | ☐ Coast Prairie Redox (A16) (LRR K, L, R) |
| ☐ Black Histic (A3) | ☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| ☐ Hydrogen Sulfide (A4) | ☐ Thin Dark Surface (S9) (LRR R, MLRA 149B) | ☐ Dark Surface (S7) (LRR K, L) |
| ☐ Stratified layers (A5) | ☐ Loamy Mucky Mineral (F1) (LRR K, L) | ☐ Polyvalue Below Surface (S8) (LRR K, L) |
| ☐ Depleted Below Dark Surface (A11) | ☐ Loamy Gleyed Matrix (F2) | ☐ Thin Dark Surface (S9) (LRR K, L) |
| ☐ Thick Dark Surface (A12) | ☐ Depleted Matrix (F3) | |
| ☐ Sandy Mucky Mineral (S1) | ☐ Redox Dark Surface (F6) | |
| ☐ Sandy Gleyed Matrix (S4) | ☐ Depleted Dark Surface (F7) | |
| ☐ Sandy Redox (S5) | ☐ Redox Depressions (F8) | |
| | | ☐ Iron-Manganese Masses (F12) (LRR K, L, R) |
| | | ☐ Piedmont Floodplain Soils (F19) (MLRA 149B) |
| | | ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| | | ☐ Red Parent Material (TF2) |
| | | ☐ Very Shallow Dark Surface (TF12) |
| | | ☐ Other (Explain in Remarks |

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

| Restrictive Layer (if observed): | Hydric Soil Present? Yes ☐ | No ☒ | |
|---|---|---|---|
| Type: | | | |
| Depth (inches): | | | |

Remarks:

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

| | | | |
|---|---|---|---|
| Project Site: CNY | City/County: Syracuse | | Sampling Date: 9/22/15 |
| Applicant/Owner: Working Lands | State: New York | | Sampling Point: 11 |
| Investigator(s): John Larson | | Section, Township, Range: | |
| Landform (Hillslope, terrace, etc.) | Local relief (concave, convex, none): | | Slope (%) Concave to flat |
| Subregion (LRR or MLRA): Lat: | Long: | Datum: 43.07586 North latitude and 76.03483 West longitude | |
| Soil Map Unit Name: Lamson very fine sandy loam | | NYSDEC classification: Yes | |
| Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in remarks) | | | |
| Is Significantly Disturbed: | Vegetation?☐ | Soil?☐ | Hydrology?☐ | Are "Normal Circumstances" Present? Yes ☒ No☐ |
| Is Naturally Problematic: | Vegetation?☐ | Soil?☐ | Hydrology?☐ | If needed, explain 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☐<br>If yes, optional Wetland Site ID: |
| Remarks: June was very wet, July, August and September below normal. | | |

## HYDROLOGY

| Wetland Hydrology Indicators: | | |
|---|---|---|
| Primary Indicators (minimum of one is required: check all that apply). | | Secondary Indicators (minimum of 2 required) |
| ☐ Surface Water (A1) | ☒ Water-Stained Leaves (B9) | ☒ Surface Soil Cracks (B6) |
| ☐ High Water Table (A2) | ☐ Aquatic Fauna (B13) | ☒ Drainage Patterns (B10) |
| ☐ Saturation (A3) | ☐ Marl Deposits (B15) | ☐ Moss Trim Lines (B16) |
| ☐ Water Marks (B1) | ☐ Hydrogen Sulfide Odor (C1) | ☐ Dry-Season Water Table (C2) |
| ☐ Sediment Deposits (B2) | ☐ Oxidized Rhizospheres on Living Roots (C3) | ☐ Crayfish Burrows (C8) |
| ☐ Drift Deposits (B3) | ☐ Presence of Reduced Iron (C4) | ☐ Saturation Visible on Aerial Imagery (C9) |
| ☐ Algal Mat or Crust (B4) | ☐ Recent Iron Reduction in Tilled Soils (C6) | ☐ Stunted or Stressed Plants (D1) |
| ☐ Iron Deposits (B5) | ☐ Thin Muck Surface (C7) | ☐ Geomorphic Position (D2) |
| ☐ Inundation Visible on Aerial Imagery (B7) | ☐ Other (Explain in Remarks) | ☐ Shallow Aquitard (D3) |
| ☒ Sparsely Vegetated Concave Surface (B8) | | ☒ Microtopographic Relief (D4) |
| | | ☐ 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☐

Described Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

FW in south

Sampling Point: 11

VEGETATION – Use scientific names of plants

| Tree Stratum (Plot size): | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Acer rubrum* | 60 | Yes | FAC |
| 2. *Fraxinus pennsylvanica* | 10 | No | FACW |
| 3. *Tilia americana* | 10 | No | FACU |
| 4. | | | |
| 5. | | | |
| | 80 | = Total Cover | |
| Sapling/Shrub Stratum (Plot size): | | | |
| 1. *Carpinus caroliniana* | 20 | Yes | FAC |
| 2. *Ulmus americana* | 5 | No | FACW |
| 3. *Hamamelis virginiana* | 5 | No | FACU |
| 4. | | | |
| 5. | | | |
| | 30 | = Total Cover | |
| Herb Stratum (Plot size): | | | |
| 1. *Rubus flagellaris* | 5 | No | FACU |
| 2. *Rhus radicans* | 10 | Yes | FAC |
| 3. *Polygonum virginianum* | 5 | No | FAC |
| 4. *Ulmus americana* | 2 | No | FACW |
| 5. *Carpinus caroliniana* | 2 | No | FAC |
| 6. *Solidago flexicaulis* | 2 | No | FACU |
| 7. *Leersia oryzoides* | 2 | No | OBL |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| | 38 | = Total Cover | |
| Woody Vine Stratum (Plot size): | | | |
| 1. | | | |
| 2. | | | |
| | | = Total Cover | |

Dominance Test Worksheet:

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total number of dominant species across all strata: 3 (B)

% Dominant Species that are OBL, FACW, or FAC: 100 (A/B)

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 =

Hydrophytic Vegetation Indicators:

- ☐ Rapid Test for Hydrophytic Vegetation
- ☒ Dominance Test is >50%
- ☐ Prevalence Index is ≤ 3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Definitions of Vegetation Strata:

Trees – Woody plants 3" (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 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.

Remarks: (Include photo numbers here or on a separate sheet).

SOILS

Sampling Point 11

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|
| | Color (moist) | % | Color (moist) | % | Type [1] | Loc [2] | | |
| 0-14 | 10 YR 2/1 | | | | | | Sandy silt loam | |
| 14+ | 10 YR 6/2 | | 10 YR 5/6 | 5 | C | N | Sandy clay loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.
[2] Location: PL=Pore Lining, M=Matrix

| Hydric Soil Indicators: | | Indicators for Problematic Hydric Soils [3]: |
|---|---|---|
| ☐ Histosol (A1) | ☐ Stripped Matrix (S6) | ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| ☐ Histic Epipedon (A2) | ☐ Dark Surface (S7) (LRR R, MLRA 149B) | ☐ Coast Prairie Redox (A16) (LRR K, L, R) |
| ☐ Black Histic (A3) | ☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| ☐ Hydrogen Sulfide (A4) | ☐ Thin Dark Surface (S9) (LRR R, MLRA 149B) | ☐ Dark Surface (S7) (LRR K, L) |
| ☐ Stratified layers (A5) | ☐ Loamy Mucky Mineral (F1) (LRR K, L) | ☐ Polyvalue Below Surface (S8) (LRR K, L) |
| ☐ Depleted Below Dark Surface (A11) | ☐ Loamy Gleyed Matrix (F2) | ☐ Thin Dark Surface (S9) (LRR K, L) |
| ☒ Thick Dark Surface (A12) | ☐ Depleted Matrix (F3) | |
| ☐ Sandy Mucky Mineral (S1) | ☐ Redox Dark Surface (F6) | |
| ☐ Sandy Gleyed Matrix (S4) | ☐ Depleted Dark Surface (F7) | |
| ☐ Sandy Redox (S5) | ☐ Redox Depressions (F8) | |
| | | ☐ Iron-Manganese Masses (F12) (LRR K, L, R) |
| | | ☐ Piedmont Floodplain Soils (F19) (MLRA 149B) |
| | | ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| | | ☐ Red Parent Material (TF2) |
| | | ☐ Very Shallow Dark Surface (TF12) |
| | | ☐ Other (Explain in Remarks |

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

| Restrictive Layer (if observed): | Hydric Soil Present? Yes ☒ | No ☐ |
|---|---|---|
| Type: | | |
| Depth (inches): | | |

Remarks:

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

| | | | |
|---|---|---|---|
| Project Site: CNY | City/County: Syracuse | | Sampling Date: 9/22/15 |
| Applicant/Owner: Working Lands | State: New York | | Sampling Point: 12 |
| Investigator(s): John Larson, Susan Lehnhardt | | Section, Township, Range: | |
| Landform (Hillslope, terrace, etc.) | Local relief (concave, convex, none): Flat | Slope (%) | |
| Subregion (LRR or MLRA): Lat: | Long: | Datum: 43.07586 North latitude and 76.03483 West longitude | |
| Soil Map Unit Name: Niagara silt loam | | NYSEDC/NWI classification: No | |
| Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in remarks) | | | |
| Is Significantly Disturbed: | Vegetation?☐ | Soil?☐ | Hydrology?☐ | Are "Normal Circumstances" Present? Yes ☒ No☐ |
| Is Naturally Problematic: | Vegetation?☐ | Soil?☐ | Hydrology?☐ | If needed, explain 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: June was very wet, July, August and September below normal. | | |

## HYDROLOGY

| Wetland Hydrology Indicators: | | |
|---|---|---|
| Primary Indicators (minimum of one is required: check all that apply). | | Secondary Indicators (minimum of 2 required) |
| ☐ Surface Water (A1) | ☐ Water-Stained Leaves (B9) | ☒ Surface Soil Cracks (B6) |
| ☐ High Water Table (A2) | ☐ Aquatic Fauna (B13) | ☒ Drainage Patterns (B10) |
| ☐ Saturation (A3) | ☐ Marl Deposits (B15) | ☐ Moss Trim Lines (B16) |
| ☐ Water Marks (B1) | ☐ Hydrogen Sulfide Odor (C1) | ☐ Dry-Season Water Table (C2) |
| ☐ Sediment Deposits (B2) | ☐ Oxidized Rhizospheres on Living Roots (C3) | ☐ Crayfish Burrows (C8) |
| ☐ Drift Deposits (B3) | ☐ Presence of Reduced Iron (C4) | ☐ Saturation Visible on Aerial Imagery (C9) |
| ☐ Algal Mat or Crust (B4) | ☐ Recent Iron Reduction in Tilled Soils (C6) | ☐ Stunted or Stressed Plants (D1) |
| ☐ Iron Deposits (B5) | ☐ Thin Muck Surface (C7) | ☐ Geomorphic Position (D2) |
| ☐ Inundation Visible on Aerial Imagery (B7) | ☐ Other (Explain in Remarks) | ☐ Shallow Aquitard (D3) |
| ☐ Sparsely Vegetated Concave Surface (B8) | | ☐ Microtopographic Relief (D4) |
| | | ☐ FAC-Neutral Test (D5) |

| | | | | |
|---|---|---|---|---|
| Field Observations: | | | | Wetland Hydrology Present? |
| Surface Water Present? | Yes ☐ | No☒ | Depth (inches): | |
| Water Table Present? | Yes☐ | No☒ | Depth (inches): | Yes ☒ No☐ |
| Saturation Present? (includes capillary fringe) | Yes ☐ | No☒ | Depth (inches): | |
| Described Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | | |

Remarks:
This was a marginal wetland area.

## VEGETATION – Use scientific names of plants

| Tree Stratum (Plot size): | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Fraxinus pennsylvanica* | 50 | Yes | FACW |
| 2. *Ulmus americana* | 20 | Yes | FACW |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | 70 | = Total Cover | |
| Sapling/Shrub Stratum (Plot size): | | | |
| 1. *Rhamnus cathartica* | 15 | Yes | FAC |
| 2. *Cornus stolonifera* | 20 | Yes | FACW |
| 3. *Viburnum opulus* | 5 | No | FACU |
| 4. *Cornus racemosa* | 25 | Yes | FACW |
| 5. | | | |
| | 65 | = Total Cover | |
| Herb Stratum (Plot size): | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| | | = Total Cover | |
| Woody Vine Stratum (Plot size): | | | |
| 1. *Vitis riparia* | 5 | Yes | FACW |
| 2. | | | |
| | 5 | = Total Cover | |

**Dominance Test Worksheet:**

Number of Dominant Species that are OBL, FACW, or FAC: _6 (A)

Total number of dominant species across all strata: 6 (B)

% Dominant Species that are OBL, FACW, or FAC: 100 (A/B)

**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 =

**Hydrophytic Vegetation Indicators:**

- ☐ Rapid Test for Hydrophytic Vegetation
- ☒ Dominance Test is >50%
- ☐ Prevalence Index is ≤ 3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Definitions of Vegetation Strata:

Trees – Woody plants 3" (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 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.

Remarks: (Include photo numbers here or on a separate sheet).

Ground cover shade suppressed and absent over large areas

## SOILS

Sampling Point 12

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth (inches) | Matrix | | Redox Features | | | | | |
| | Color (moist) | % | Color (moist) | % | Type [1] | Loc [2] | Texture | Remarks |
| 0-12 | 10 YR 3/1 | | | | | | Sandy silt loam | |
| 12-15 | 10 YR 3/2 | | 10 YR 4/4 | | | | Sandy silt loam | |
| 15+ | 7.5 YR 5/6 | | 10 YR 5/2 | 1-2 | | | Clay sand | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.
[2] Location: PL=Pore Lining, M=Matrix

| Hydric Soil Indicators: | | Indicators for Problematic Hydric Soils [3]: |
|---|---|---|
| ☐ Histosol (A1) | ☐ Stripped Matrix (S6) | ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| ☐ Histic Epipedon (A2) | ☐ Dark Surface (S7) (LRR R, MLRA 149B) | ☐ Coast Prairie Redox (A16) (LRR K, L, R) |
| ☐ Black Histic (A3) | ☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| ☐ Hydrogen Sulfide (A4) | ☐ Thin Dark Surface (S9) (LRR R, MLRA 149B) | ☐ Dark Surface (S7) (LRR K, L) |
| ☐ Stratified layers (A5) | ☐ Loamy Mucky Mineral (F1) (LRR K, L) | ☐ Polyvalue Below Surface (S8) (LRR K, L) |
| ☐ Depleted Below Dark Surface (A11) | ☐ Loamy Gleyed Matrix (F2) | ☐ Thin Dark Surface (S9) (LRR K, L) |
| ☐ Thick Dark Surface (A12) | ☐ Depleted Matrix (F3) | |
| ☐ Sandy Mucky Mineral (S1) | ☐ Redox Dark Surface (F6) | |
| ☐ Sandy Gleyed Matrix (S4) | ☐ Depleted Dark Surface (F7) | |
| ☐ Sandy Redox (S5) | ☐ Redox Depressions (F8) | |
| | | ☐ Iron-Manganese Masses (F12) (LRR K, L, R) |
| | | ☐ Piedmont Floodplain Soils (F19) (MLRA 149B) |
| | | ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| | | ☐ Red Parent Material (TF2) |
| | | ☐ Very Shallow Dark Surface (TF12) |
| | | ☐ Other (Explain in Remarks |

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

| Restrictive Layer (if observed): | Hydric Soil Present? Yes ☒ | No ☐ |
|---|---|---|
| Type: | | |
| Depth (inches): | | |

Remarks:

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

| | | | |
|---|---|---|---|
| Project Site: CNY | City/County: Syracuse | | Sampling Date: 9/22/15 |
| Applicant/Owner: Working Lands | State: New York | | Sampling Point: 13 |
| Investigator(s): John Larson, Susan Lehnhardt | | Section, Township, Range: | |
| Landform (Hillslope, terrace, etc.) | Local relief (concave, convex, none): | | Slope (%) |
| Subregion (LRR or MLRA): Lat: | Long: | Datum: 43.07586 North latitude and 76.03483 West longitude | |
| Soil Map Unit Name: Niagara silt loam | | NYSDEC/NWI classification: No | |
| Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in remarks) | | | |
| Is Significantly Disturbed: | Vegetation?☐ | Soil?☐ | Hydrology?☐ | Are "Normal Circumstances" Present? Yes ☒ No☐ |
| Is Naturally Problematic: | Vegetation?☐ | Soil?☐ | Hydrology?☐ | If needed, explain 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☒<br>If yes, optional Wetland Site ID: |
| Remarks: June was very wet, July, August and September below normal. | | |

## HYDROLOGY

| Wetland Hydrology Indicators: | | |
|---|---|---|
| Primary Indicators (minimum of one is required: check all that apply). | | Secondary Indicators (minimum of 2 required) |
| ☐ Surface Water (A1) | ☐ Water-Stained Leaves (B9) | ☐ Surface Soil Cracks (B6) |
| ☐ High Water Table (A2) | ☐ Aquatic Fauna (B13) | ☐ Drainage Patterns (B10) |
| ☐ Saturation (A3) | ☐ Marl Deposits (B15) | ☐ Moss Trim Lines (B16) |
| ☐ Water Marks (B1) | ☐ Hydrogen Sulfide Odor (C1) | ☐ Dry-Season Water Table (C2) |
| ☐ Sediment Deposits (B2) | ☒ Oxidized Rhizospheres on Living Roots (C3) | ☐ Crayfish Burrows (C8) |
| ☐ Drift Deposits (B3) | ☐ Presence of Reduced Iron (C4) | ☐ Saturation Visible on Aerial Imagery (C9) |
| ☐ Algal Mat or Crust (B4) | ☐ Recent Iron Reduction in Tilled Soils (C6) | ☐ Stunted or Stressed Plants (D1) |
| ☐ Iron Deposits (B5) | ☐ Thin Muck Surface (C7) | ☐ Geomorphic Position (D2) |
| ☐ Inundation Visible on Aerial Imagery (B7) | ☐ Other (Explain in Remarks) | ☐ Shallow Aquitard (D3) |
| ☐ Sparsely Vegetated Concave Surface (B8) | | ☐ Microtopographic Relief (D4) |
| | | ☐ FAC-Neutral Test (D5) |

| | | | | |
|---|---|---|---|---|
| Field Observations: | | | | Wetland Hydrology Present? |
| Surface Water Present? | Yes ☐ | No☒ | Depth (inches): | Yes ☒ No☐ |
| Water Table Present? | Yes☐ | No☒ | Depth (inches): | |
| Saturation Present? (includes capillary fringe) | Yes ☐ | No☒ | Depth (inches): | |
| Described Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | | |
| Remarks: | | | | |

VEGETATION – Use scientific names of plants

Sampling Point: 13

| Tree Stratum (Plot size): | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Fraxinus pennsylvanica* | 10 | Yes | FAC |
| 2. Crataegus sp | 10 | Yes | NI |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | 20 | = Total Cover | |
| Sapling/Shrub Stratum (Plot size): | | | |
| 1. *Lonicera tatarica* | 75 | Yes | UPL |
| 2. *Rhamnus cathartica* | 15 | No | FAC |
| 3. *Ulmus americana* | 5 | No | FACW |
| 4. | | | |
| 5. | | | |
| | 95 | = Total Cover | |
| Herb Stratum (Plot size): | | | |
| 1. *Solidago canadensis* | 5 | Yes | FACU |
| 2. *Polygonum virginianum* | 2 | Yes | FAC |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| | 7 | = Total Cover | |
| Woody Vine Stratum (Plot size): | | | |
| 1. | | | |
| 2. | | | |
| | | = Total Cover | |

Dominance Test Worksheet:

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total number of dominant species across all strata: 4 (B)

% Dominant Species that are OBL, FACW, or FAC: 50 (A/B)

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 =

Hydrophytic Vegetation Indicators:

- ☐ Rapid Test for Hydrophytic Vegetation
- ☐ Dominance Test is >50%
- ☐ Prevalence Index is ≤ 3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1] Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No☒

Definitions of Vegetation Strata:

Trees – Woody plants 3" (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 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.

Remarks: (Include photo numbers here or on a separate sheet).

Slightly convex, edge of upland/wetland

## SOILS

Sampling Point 13

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth (inches) | Matrix | | Redox Features | | | | | |
| | Color (moist) | % | Color (moist) | % | Type [1] | Loc [2] | Texture | Remarks |
| 0-6 | 10 YR 3/2 | | | | | | | Redox |
| 6-7 | 5 YR 4/4 | 1-2 | 10 YR 6/2 | | | | | |
| 14+ | 10 YR 4/2 | | 10 YR 5/6 | 1 | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.
[2] Location: PL=Pore Lining, M=Matrix

| Hydric Soil Indicators: | | Indicators for Problematic Hydric Soils [3]: |
|---|---|---|
| ☐ Histosol (A1) | ☐ Stripped Matrix (S6) | ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| ☐ Histic Epipedon (A2) | ☐ Dark Surface (S7) (LRR R, MLRA 149B) | ☐ Coast Prairie Redox (A16) (LRR K, L, R) |
| ☐ Black Histic (A3) | ☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| ☐ Hydrogen Sulfide (A4) | ☐ Thin Dark Surface (S9) (LRR R, MLRA 149B) | ☐ Dark Surface (S7) (LRR K, L) |
| ☐ Stratified layers (A5) | ☐ Loamy Mucky Mineral (F1) (LRR K, L) | ☐ Polyvalue Below Surface (S8) (LRR K, L) |
| ☐ Depleted Below Dark Surface (A11) | ☐ Loamy Gleyed Matrix (F2) | ☐ Thin Dark Surface (S9) (LRR K, L) |
| ☐ Thick Dark Surface (A12) | ☐ Depleted Matrix (F3) | |
| ☐ Sandy Mucky Mineral (S1) | ☐ Redox Dark Surface (F6) | |
| ☐ Sandy Gleyed Matrix (S4) | ☐ Depleted Dark Surface (F7) | |
| ☐ Sandy Redox (S5) | ☐ Redox Depressions (F8) | |
| | | ☐ Iron-Manganese Masses (F12) (LRR K, L, R) |
| | | ☐ Piedmont Floodplain Soils (F19) (MLRA 149B) |
| | | ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| | | ☐ Red Parent Material (TF2) |
| | | ☐ Very Shallow Dark Surface (TF12) |
| | | ☐ Other (Explain in Remarks |

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

| Restrictive Layer (if observed): | Hydric Soil Present? Yes ☐ | No ☒ |
|---|---|---|
| Type: | | |
| Depth (inches): | | |

Remarks:

# USDA Field Office Climate Data

WETS Station : SYRACUSE HANCOCK INTL AP, NY771 Creation Date: 11/13/2015
Latitude: 4307 Longitude: 07606 Elevation: 00413
State FIPS/County(FIPS): 36067 County Name: Onondaga
Start yr. - 1971 End yr. - 2000

| Month | Temperature (Degrees F.) avg daily max | avg daily min | avg | Precipitation (Inches) avg | 30% chance will have less than | more than | avg # of days w/.1 or more | avg total snow fall |
|---|---|---|---|---|---|---|---|---|
| January | 31.4 | 14.0 | 22.7 | 2.60 | 1.86 | 3.07 | 7 | 33.2 |
| February | 33.5 | 15.5 | 24.5 | 2.12 | 1.57 | 2.49 | 6 | 24.0 |
| March | 43.1 | 24.2 | 33.6 | 3.02 | 2.37 | 3.48 | 8 | 18.8 |
| April | 55.7 | 34.9 | 45.3 | 3.39 | 2.36 | 4.02 | 8 | 4.8 |
| May | 68.5 | 45.8 | 57.1 | 3.39 | 2.27 | 4.06 | 8 | 0.1 |
| June | 77.0 | 54.6 | 65.8 | 3.71 | 2.41 | 4.46 | 8 | 0.0 |
| July | 81.7 | 60.1 | 70.9 | 4.02 | 2.88 | 4.75 | 7 | 0.0 |
| August | 79.6 | 58.8 | 69.2 | 3.56 | 2.62 | 4.18 | 7 | 0.0 |
| September | 71.4 | 51.1 | 61.3 | 4.15 | 3.25 | 4.79 | 7 | 0.0 |
| October | 59.8 | 40.4 | 50.1 | 3.20 | 2.16 | 3.83 | 8 | 0.4 |
| November | 47.4 | 32.0 | 39.7 | 3.77 | 2.93 | 4.36 | 9 | 11.1 |
| December | 36.3 | 20.9 | 28.6 | 3.12 | 2.42 | 3.61 | 9 | 28.6 |
| Annual | ----- | ----- | ----- | ------ | 35.82 | 43.60 | -- | ---- |
| Average | 57.1 | 37.7 | 47.4 | ------ | ------ | ------ | -- | ---- |
| Average | ----- | ----- | ----- | 40.05 | ------ | ------ | 92 | 121.2 |

GROWING SEASON DATES

http://agacis.rcc-acis.org/36067/wets/results



Exhibit 3. WETs Table-Showing Antecedent Precipitation Conditions for July –September 2015 in Syracuse, NY. (Page 1 of 4)

| Probability | Temperature: 24 F or higher | 28 F or higher | 32 F or higher |
|---|---|---|---|
| | Beginning and Ending Dates Growing Season Length | | |
| 50 percent * | 4/ 5 to 11/ 5<br>213 days | 4/17 to 10/24<br>189 days | 4/27 to 10/12<br>168 days |
| 70 percent * | 3/31 to 11/10<br>223 days | 4/13 to 10/28<br>197 days | 4/23 to 10/16<br>176 days |

* Percent chance of the growing season occurring between the Beginning and Ending dates.

total 1950-2015 prcp

Station : NY771, SYRACUSE HANCOCK INTL AP
Unit = inches

| yr | jan | feb | mar | apr | may | jun | jul | aug | sep | oct | nov | dec | annl |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | | | | | | | 2.05 | 2.52 | 4.22 | 3.41 | 3.91 | 3.59 | 19.70 |
| 51 | 2.73 | 5.38 | 4.65 | 3.79 | 1.97 | 4.21 | 5.22 | 3.33 | 3.17 | 1.86 | 3.76 | 4.34 | 44.41 |
| 52 | 2.45 | 2.00 | 2.39 | 2.57 | 3.88 | 1.18 | 4.36 | 2.05 | 1.52 | 2.88 | 2.36 | 3.75 | 31.39 |
| 53 | 2.91 | 2.71 | 3.75 | 2.07 | 4.35 | 1.51 | 1.93 | 2.39 | 2.11 | 1.64 | 1.74 | 2.61 | 29.72 |
| 54 | 2.43 | 3.74 | 3.48 | 4.75 | 3.17 | 3.66 | 1.12 | 7.19 | 3.06 | 1.99 | 4.84 | 4.03 | 43.46 |
| 55 | 1.61 | 3.32 | 6.84 | 1.81 | 1.90 | 2.43 | 2.85 | 3.80 | 1.87 | 8.29 | 2.69 | 2.53 | 39.94 |
| 56 | 2.28 | 3.90 | 4.63 | 3.35 | 3.03 | 1.71 | 3.75 | 8.41 | 4.27 | 1.28 | 2.38 | 3.02 | 42.01 |
| 57 | 2.19 | 1.76 | 2.01 | 2.60 | 2.88 | 4.18 | 6.13 | 3.45 | 2.28 | 0.93 | 1.86 | 2.90 | 33.17 |
| 58 | 4.46 | 5.28 | 1.31 | 3.36 | 3.70 | 5.24 | 3.63 | 2.06 | 4.89 | 3.37 | 3.76 | 1.73 | 42.79 |
| 59 | 4.59 | 2.22 | 2.93 | 2.51 | 1.97 | 2.53 | 2.54 | 4.48 | 0.93 | 7.15 | 4.34 | 5.01 | 41.20 |
| 60 | 3.11 | 4.90 | 2.48 | 2.94 | 3.96 | 1.86 | 1.03 | 2.69 | 2.93 | 2.77 | 1.68 | 1.86 | 32.21 |
| 61 | 2.30 | 4.14 | 4.22 | 3.74 | 2.40 | 3.68 | 5.08 | 1.78 | 1.21 | 3.59 | 2.99 | 2.45 | 37.58 |
| 62 | 2.87 | 2.96 | 1.96 | 3.57 | 1.05 | 1.10 | 2.74 | 4.63 | 1.99 | 3.30 | 2.22 | 2.25 | 30.64 |
| 63 | 1.85 | 2.05 | 2.79 | 2.22 | 2.84 | 2.49 | 1.21 | 3.59 | 0.85 | 0.21 | 5.65 | 2.06 | 27.81 |
| 64 | 2.18 | 1.13 | 3.83 | 3.66 | 2.31 | 1.41 | 2.15 | 3.09 | 0.75 | 1.52 | 2.20 | 2.87 | 27.10 |
| 65 | 2.28 | 2.82 | 1.63 | 3.53 | 1.61 | 2.04 | 1.34 | 1.95 | 3.60 | 2.70 | 2.97 | 1.92 | 28.39 |
| 66 | 3.98 | 2.96 | 2.27 | 3.05 | 1.79 | 2.73 | 2.09 | 2.64 | 4.75 | 0.90 | 2.05 | 3.93 | 33.14 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 67 | 1.47 | 1.49 | 1.34 | 2.11 | 3.33 | 1.56 | 6.33 | 5.00 | 2.73 | 3.52 | 4.48 | 2.66 | 36.02 |
| 68 | 2.08 | 1.10 | 3.13 | 2.40 | 3.46 | 6.14 | 3.77 | 4.17 | 3.43 | 5.81 | 4.07 | 4.67 | 44.23 |
| 69 | 3.37 | 1.49 | 1.08 | 3.95 | 4.34 | 3.74 | 0.90 | 1.77 | 1.13 | 2.30 | 4.56 | 3.42 | 32.05 |
| 70 | 1.02 | 1.84 | 2.45 | 3.68 | 2.79 | 2.93 | 4.42 | 4.07 | 4.33 | 3.84 | 3.53 | 3.33 | 38.23 |
| 71 | 1.90 | 4.07 | 2.90 | 2.19 | 3.40 | 3.26 | 6.49 | 4.01 | 2.56 | 1.62 | 3.52 | 3.26 | 39.18 |
| 72 | 1.10 | 2.87 | 2.49 | 4.03 | 6.19 | 12.30 | 3.45 | 3.76 | 4.12 | 4.36 | 6.79 | 3.95 | 55.41 |
| 73 | 1.85 | 1.64 | 3.45 | 6.91 | 5.58 | 7.07 | 3.62 | 2.97 | 4.57 | 3.81 | 6.73 | 4.38 | 52.58 |
| 74 | 2.08 | 1.70 | 4.34 | 3.09 | 5.78 | 4.67 | 9.52 | 4.60 | 4.45 | 1.58 | 4.95 | 3.47 | 50.23 |
| 75 | 2.54 | 3.05 | 2.67 | 2.01 | 2.74 | 4.08 | 9.32 | 5.35 | 8.81 | 3.69 | 3.54 | 4.10 | 51.90 |
| 76 | 2.79 | 2.71 | 4.62 | 8.12 | 7.41 | 7.42 | 5.24 | 6.73 | 3.27 | 6.53 | 1.53 | 1.80 | 58.17 |
| 77 | 1.84 | 1.62 | 3.47 | 3.04 | 0.75 | 3.30 | 4.76 | 4.93 | 6.54 | 4.75 | 5.31 | 4.33 | 44.64 |
| 78 | 5.77 | 0.80 | 3.08 | 1.87 | 1.90 | 3.58 | 2.78 | 3.31 | 3.93 | 2.68 | 1.25 | 4.12 | 35.07 |
| 79 | 4.70 | 2.54 | 2.73 | 3.89 | 3.07 | 2.33 | 2.33 | 3.69 | 5.25 | 2.91 | 3.25 | 1.84 | 38.53 |
| 80 | 1.47 | 1.38 | 4.34 | 3.33 | 1.34 | 4.45 | 2.57 | 1.33 | 3.40 | 2.56 | 2.64 | 3.27 | 32.08 |
| 81 | 1.34 | 2.72 | 1.01 | 2.04 | 2.61 | 1.89 | 2.68 | 2.63 | 5.58 | 6.66 | 3.09 | 2.96 | 35.21 |
| 82 | 3.59 | 1.26 | 2.63 | 1.71 | 2.87 | 4.64 | 3.83 | 2.60 | 4.22 | 0.72 | 4.52 | 2.55 | 35.14 |
| 83 | 1.92 | 1.07 | 2.30 | 6.34 | 3.33 | 1.50 | 2.31 | 2.80 | 2.98 | 1.98 | 4.30 | 5.50 | 36.33 |
| 84 | 1.30 | 2.88 | 2.39 | 3.16 | 4.97 | 2.02 | 3.66 | 5.17 | 2.61 | 1.95 | 3.48 | 4.38 | 37.97 |
| 85 | 2.49 | 1.55 | 2.61 | 1.22 | 3.39 | 2.80 | 2.75 | 1.44 | 3.88 | 3.39 | 5.18 | 1.80 | 32.50 |
| 86 | 2.41 | 2.27 | 2.82 | 3.42 | 2.67 | 4.89 | 5.23 | 3.36 | 5.47 | 3.32 | 3.74 | 3.33 | 42.93 |
| 87 | 3.03 | 0.63 | 1.86 | 3.31 | 1.41 | 5.04 | 2.16 | 2.12 | 5.99 | 3.13 | 3.02 | 1.99 | 33.69 |
| 88 | 1.50 | 2.13 | 1.79 | 2.70 | 3.05 | 2.46 | 5.72 | 3.77 | 1.88 | 3.57 | 3.95 | 1.92 | 34.44 |
| 89 | 1.06 | 1.71 | 3.13 | 1.52 | 4.27 | 5.41 | 2.20 | 2.68 | 5.96 | 4.08 | 2.78 | 2.13 | 36.93 |
| 90 | 2.13 | 3.95 | 3.70 | 4.09 | 5.62 | 2.92 | 3.72 | 5.33 | 3.45 | 6.09 | 3.23 | 5.24 | 49.47 |
| 91 | 2.44 | 1.54 | 4.07 | 3.90 | 3.90 | 1.67 | 2.86 | 4.03 | 4.20 | 2.62 | 2.72 | 3.10 | 37.05 |
| 92 | 2.62 | 2.46 | 3.80 | 3.54 | 5.21 | 1.78 | 8.00 | 2.64 | 4.55 | 2.69 | 3.75 | 2.57 | 43.61 |
| 93 | 3.08 | 2.45 | 3.75 | 6.55 | 2.25 | 2.93 | 4.76 | 4.71 | 3.83 | 2.91 | 3.20 | M2.96 | 43.38 |
| 94 | 3.49 | 1.92 | 5.14 | 3.62 | 3.03 | 2.38 | 2.64 | 5.19 | 2.43 | M0.77 | 3.50 | 2.52 | 36.63 |
| 95 | 1.80 | 2.19 | 1.31 | 1.88 | 1.70 | 1.00 | 1.98 | 3.50 | 2.53 | 6.57 | 4.83 | 2.05 | 31.34 |
| 96 | 3.35 | 1.25 | 1.74 | 4.28 | 3.02 | 3.05 | 4.24 | 1.71 | 4.38 | 2.14 | 5.78 | 4.45 | 39.39 |
| 97 | 1.46 | 2.25 | 3.57 | 1.77 | 2.43 | 1.64 | 2.78 | 4.06 | 2.75 | 1.50 | 4.28 | 4.13 | 32.62 |
| 98 | 4.76 | 3.14 | 2.94 | 2.09 | 2.37 | 4.62 | 3.63 | 4.77 | 2.41 | 2.53 | 2.06 | 1.74 | 37.06 |
| 99 | 5.33 | 1.43 | 3.53 | 1.75 | 0.81 | 1.78 | 2.55 | 1.02 | 5.35 | 2.77 | 3.16 | 1.40 | 30.88 |
| 0 | 2.80 | 2.46 | 2.37 | 4.24 | 4.75 | 4.46 | 2.73 | 2.48 | 3.13 | 2.25 | 2.98 | 2.36 | 37.01 |
| 1 | 1.57 | 1.77 | 5.38 | 1.53 | 2.24 | 3.58 | 2.08 | 4.84 | 4.05 | 2.15 | 2.92 | 2.19 | 34.30 |
| 2 | 2.13 | 1.44 | 2.75 | 4.38 | 5.77 | 5.35 | 1.75 | 2.71 | 3.55 | 3.98 | 3.61 | 2.84 | 40.26 |
| 3 | 1.44 | 2.58 | 2.89 | 2.61 | 5.27 | 2.83 | 3.30 | 3.03 | 3.14 | 4.27 | 3.14 | 3.10 | 37.60 |
| 4 | 1.86 | 1.12 | 2.04 | 3.72 | 7.82 | 2.42 | 6.95 | 5.09 | 3.23 | 2.28 | 2.81 | 3.80 | 43.14 |
| 5 | 2.96 | 1.57 | 1.39 | 5.71 | 0.59 | 1.95 | 4.61 | 5.95 | 1.75 | 6.40 | 4.66 | 2.56 | 40.10 |
| 6 | 2.96 | 1.66 | 1.86 | 3.93 | 2.25 | 5.09 | 10.12 | 3.21 | 4.04 | 5.70 | 2.62 | 3.76 | 47.20 |
| 7 | 4.20 | M2.42 | 4.16 | 4.42 | 0.86 | 3.67 | 3.61 | 1.76 | 3.20 | 4.02 | 4.17 | 5.04 | 41.53 |
| 8 | 1.36 | 4.71 | 5.00 | 2.99 | 1.78 | 3.75 | 4.28 | 3.62 | 2.47 | 4.87 | 3.19 | 3.89 | 41.91 |
| 9 | 1.86 | M1.27 | 3.80 | 2.31 | 3.53 | 5.24 | 2.04 | 4.57 | 2.27 | 4.08 | 2.16 | M2.20 | 35.33 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | M1.21 | 2.02 | 2.54 | 0.84 | 2.87 | 6.57 | 4.28 | 6.36 | 5.26 | 4.11 | 2.93 | M2.42 | 41.41 |
| 11 | 2.45 | 3.11 | 2.86 | 8.53 | 3.90 | 3.31 | 3.30 | 6.66 | 6.36 | 3.20 | 3.36 | 2.48 | 49.52 |
| 12 | 3.88 | 1.41 | 1.96 | 2.24 | 3.15 | 2.28 | 1.84 | 2.27 | 3.11 | 3.99 | 1.41 | 7.57 | 35.11 |
| 13 | 1.71 | 2.71 | 2.02 | 3.59 | 3.91 | 6.80 | 3.22 | 2.58 | 3.20 | 3.91 | 3.84 | 2.89 | 40.38 |
| 14 | 2.20 | 3.35 | 3.48 | 4.64 | 3.71 | 2.74 | 5.18 | 3.74 | 1.60 | 4.54 | 2.30 | 3.02 | 40.50 |
| 15 | 1.60 | 2.28 | 1.52 | 2.79 | 3.93 | 9.92 | 3.37 | 1.91 | 5.05 | 3.77 | M0.80 | | 36.94 |

Product generated by ACIS - NOAA Regional Climate Centers

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APPENDIX D
TRAFFIC IMPACT STUDY

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**GTS Consulting**
1396 White Bridge Road
Chittenango, NY 13037
Tel: (315) 391-5110 Fax: (315) 687-6267

December 6, 2018

Romeo & Romeo, PC
314 East Fayette Street
Syracuse, NY 13202

Attn: Mr. Robert Romeo

**Re: Traffic Impact Assessment – Proposed International Container Transfer Facility Girden Road – Town of DeWitt, NY**

Dear Mr. Romeo:

I have completed my review of the traffic operations associated with the proposed international container transfer facility on the west side of Girden Road in the Town of DeWitt, NY. This letter summarizes the work completed in this review as well as my findings.

*Project Understanding*

The proposed development is located on the west side of Girden Road, just north of the CSX railroad tracks in the Town of DeWitt. The proposed international container transfer facility encompasses approximately 9 acres with access proposed via the southern end of Girden Road. The site is expected to generate approximately 3,000 trucks per year at start up traveling exclusively to/from the I-481 interchange to the west via Kirkville Road. The overall truck generation is anticipated to grow to approximately 5,000 trucks per year by end of the first year will full operations of approximately 10,000 trucks per year in 3-5 years. With 24 hour operations, seven days per week, the site is expected to generate approximately 27 trucks per day under full operation with peak movements occurring between 7-9 in the morning and 3:30-5:30 in the evening.

This study evaluates the full build condition assuming that 25% of the daily truck traffic (7 trucks) enters and exits the site during the weekday peak morning and evening commuting hours. The trucks generated will be predominantly heavy duty 80' double-axle class 8 tractors and trailers with 40' containers. The site is expected to employ 5-10 people.

*Data Collection*

Site visits were conducted on Tuesday – December 4th, 2018 to collect the following:

- Existing Traffic Volume Counts – Traffic turning movement counts were collected at the intersection of Kirkville Road with Girden Road during the weekday morning (7-9am) and evening (4-6pm) peak travel periods to ensure that actual peak hours of the adjacent streets were captured. The traffic counts included car and heavy vehicle counts by movement. There was no pedestrian activity observed during the traffic count periods and all area schools were in session.

**Re: Traffic Impact Assessment – Proposed International Container Transfer Facility**
**Girden Road – Town of DeWitt, NY**

- Kirkville Road Gap Data – Gap data was collected to assess the ability for vehicles to turn in and out of Girden Road on Kirkville Road. In order for a vehicle to turn right out of Girden Road, or left into Girden Road, the vehicle only requires a gap in the eastbound direction on Kirkville Road. A vehicle requires a gap in traffic in both directions at the same time to turn left out of Girden Road. These gaps in traffic were observed and timed on Kirkville Road during the weekday morning and evening traffic count periods. The gaps were then converted to a number of vehicles that could turn left or right out of Girden Road during each gap and then totaled for the peak hour. For example, one vehicle can turn from the side road with a 6-9 second gap in traffic, two can turn with a 10-13 second gap, 3 with a 14-17 second gap, 4 with an 18-19 second gap, etc.

- Spot Speed Measurements – 50 speed measurements were collected in each direction on Kirkville Road passing Girden Road to identify average and 85$^{th}$ percentile operating speeds in the area.

- Sight Distance Measurements – Sight lines looking east/west along Kirkville Road from Girden Road were collected for comparison to design standards in order to confirm that adequate sight lines are available for safe ingress and egress from the site.

- Operational Data - Other data needed to evaluate traffic operations, such as intersection geometry, control, and speeds limits were also collected.

*Existing Operations*

Based on the traffic counts collected, the peak hours were identified as follows:

Morning Peak Hour – 7:15am to 8:15am
Evening Peak Hour – 4:00pm to 5:00pm

The 2018 existing traffic volumes are shown in the attached Figure 1 for the morning and evening peak hours. Kirkville Road operates as an east/west arterial roadway with approximately 616 vehicles eastbound, 1,044 vehicles westbound during the morning peak hour and 1,027 vehicles eastbound/624 vehicles westbound during the evening peak hour. Girden Road is an extremely low volume dead end roadway carrying less than 10 vehicles to/from Kirkville Road during each of the peak hours. The traffic count data has been attached.

Kirkville Road has one 12 foot wide travel lane and a 9 foot wide shoulder in each direction passing Girden Road with a 45 mph speed limit.

Girden Road varies in width from 24-28 feet wide at the northern end near Kirkville Road, to approximately 20 feet wide in the middle section, to 18-20 feet wide near the southern end. The visual

**Re: Traffic Impact Assessment – Proposed International Container Transfer Facility**
**Girden Road – Town of DeWitt, NY**

pavement condition on Girden Road is generally fair with some minor longitudinal cracking, some minor potholes and areas where patching has been completed. It is noted that there is some rutting in the pavement, particularly closer to Kirkville Road.

The peak hour traffic volumes were compared to 2014 NYSDOT AADT counts on Kirkville Road and Girden Road from the Traffic Data Viewer website. The traffic counts through the study area are all consistent with the historical traffic volume counts. The historical traffic volume data has been attached.

Based on the gap data collected, there are sufficient gaps in traffic to accommodate 399 vehicles turning right onto Kirkville Road from Girden Road during the morning peak hour and 187 vehicles turning right during the evening peak hour. These gaps would also be available for vehicles turning left onto Girden Road from Kirkville Road. There were sufficient gaps observed to accommodate 102 vehicles turning left out onto Kirkville Road during the morning peak hour and 94 vehicles turning left during the evening peak hour. While it is noted that the available gaps in traffic are limited due to the high through volumes on Kirkville Road, there are sufficient gaps to accommodate both the existing traffic on Girden Road and the projected traffic volumes from the proposed international container transfer facility given the low existing and projected traffic volumes. The gap data is attached.

The posted speed limit in the area on Kirkville Road is 45mph. The speed data collected indicates that the average speeds passing the site on Kirkville Road are 48-50 mph in both directions. The 85$^{th}$ percentile speed based on the data collected is 53 mph in the eastbound direction and 51 mph in the westbound direction on Kirkville Road. The 85$^{th}$ percentile speeds are considered the operating speeds and are typically used for design and analysis. The speed data has been attached.

The following table provides a summary of the recommended sight distances along Kirkville Road from the AASHTO A Policy on Design of Highways and Streets as well as the available sight distances based on field measurements. The speed limit in the area is 45 mph on Kirkville Road, however the 85$^{th}$ percentile speeds were used in the review.

**Sight Distance Summary**

| Location | Operating Speed | Direction | AASHTO Recommended Sight Distance | Available Sight Distance |
|---|---|---|---|---|
| Kirkville Road @ Girden Road – Turning Left | 55 mph | Looking Left | 610 feet | 1,200 feet |
| | | Looking Right | 610 feet | 715 feet |
| Kirkville Road @ Girden Road – Turning Right | 55 mph | Looking Left | 530 feet | 1,200 feet |

There is more than adequate sight distance available on Kirkville Road looking both east and west from Girden Road for passenger cars. An additional review was completed for a compound tractor

trailer using an 11.5 second critical gap as opposed to the standard 7.5 second critical gap used for passenger cars. Using the longer critical gap, the recommended sight distance for a tractor trailer is 862 feet in each direction using the 51 mph westbound operating speed. While there is still more than sufficient distance looking to the west, the existing sight distance to the right is approximately 150 feet shorter than recommended. This would indicate that approaching westbound motorists on Kirkville Road may have to slow down slightly as tractor trailers are accelerating on Kirkville Road.

Capacity analysis of the existing traffic operations was completed using Synchro10, an industry accepted standard for the analysis of both signalized and unsignalized intersections that is based on methodologies developed in the Highway Capacity Manual. Intersection and individual movement operations are graded in terms of Level of Service ranging from A to F, as described in the HCM. For example, a signalized intersection movement with an average delay of 5 seconds per vehicle is considered a Level of Service A while an average delay per vehicle of 25 seconds is considered a C. A Level of Service D or better is generally considered acceptable for a signalized intersection and a Level of Service E or better is generally considered acceptable for an unsignalized intersection.

The results of the capacity analysis indicate that there are minimal delays on Kirkville Road at Girden Road during both the morning and evening peak hours. Girden Road operates at a Level of Service B during the morning peak hour but has longer existing delays with overall Level of Service F during the evening peak hour.

Although there may be some longer delays turning out onto Kirkville Road, this would be expected for a low volume approach to a high volume commuter roadway. There are sufficient existing gaps in traffic to accommodate the existing and projected traffic volumes. These findings are consistent with observations made during the data collection.

*Accident Analysis*

An accident analysis was completed for the study area using history reports obtained for a five year period from September 2013 through August 2018. Over the five year period, there were 5 total accidents in the study area. Two accidents occurred at the Girden Road intersection with one being a left turn accident and one being a right angle accident. There was one accident on Kirkville Road at a residential driveway to the west of Girden Road and two accidents on Kirkville Road, one being a rearend accident and one being a fixed object accident.

Assuming the evening peak hour volume in the Girden Road intersection is 9% of the average daily traffic volume, the resulting accident rate is 0.059 accidents per million entering vehicles. This rate is below the statewide average rate of 0.17 accidents per million entering vehicles for similar facilities, indicating that this is not a high accident location.

The accident data and calculations have been attached.

**Re: Traffic Impact Assessment – Proposed International Container Transfer Facility**
**Girden Road – Town of DeWitt, NY**

*2023 Background Operations*

The proposed international container transfer facility is assumed to be in full operation by 2023. In order to fully understand the impacts of the development on the adjacent roadway system, analysis of the operations immediately before the project opening must first be completed. The existing traffic volumes were adjusted by a growth rate to account for any unknown development that may occur prior to completion of the project.

Historical traffic volumes along Kirkville Road between Roberts Street and Girden Road, and between Girden Road and Freemont Road, were taken from the 2016 NYSDOT Traffic Volume Report and reviewed in order to identify an appropriate background growth rate. Long term growth rates in the area have been –1.4% per year to the east of Girden Road and +1.0% per year to the west of Girden Road between 2008 and 2016. A 1% annual background growth in traffic was assumed from 2018 to 2023 in order to maintain a conservative traffic analysis. The 2023 background traffic volumes with 5% total growth are shown in Figure 1.

The capacity analyses of the 2023 background condition shows no notable increases in delay on Kirkville Road from the existing condition. Girden Road will continue to experience longer delays during the evening peak hour. The detailed Level of Service summary and the Synchro capacity analysis printouts have been attached.

*Trip Generation Estimate and Distribution*

The site is expected to generate approximately 3,000 trucks per year at start up traveling exclusively to/from the I-481 interchange to the west via Kirkville Road. The overall truck generation is anticipated to grow to approximately 5,000 trucks per year by end of the first year will full operations of approximately 10,000 trucks per year in 3-5 years. With 24 hour operations, seven days per week, the site is expected to generate approximately 27 trucks per day under full operation with peak movements occurring between 7-9 in the morning and 3:30-5:30 in the evening. The site is expected to employ 5-10 people.

It is assumed that 25% of the daily truck traffic (7 trucks) will enter and the site during the weekday peak morning and evening commuting hours. The trucks generated will be predominantly heavy duty 80’ double-axle class 8 tractors and trailers with 40’ containers. For a worst case analysis, it is also assumed that 10 employees enter and exit the site during each of the peak hours.

The following table summarizes the trip generation estimate for the proposed international container transfer facility.

**Re: Traffic Impact Assessment – Proposed International Container Transfer Facility**
**Girden Road – Town of DeWitt, NY**

**Trip Generation Summary**

| | Morning Peak Hour | | Evening Peak Hour | |
|---|---|---|---|---|
| | **Entering** | **Exiting** | **Entering** | **Exiting** |
| Trucks | 7 | 7 | 7 | 7 |
| Cars (Employees) | 10 | 10 | 10 | 10 |
| **Total Trips Generated** | **17** | **17** | **17** | **17** |

The proposed development will be a minor traffic generator with less than 20 total vehicles entering or exiting during each peak hour.

Based on existing traffic patterns and population centers in the area, 63% of the employee trips generated are expected to travel to/from the east on Kirkville Road, and 37% are expected to travel to/from the west on Kirkville Road. All truck traffic will travel to/from the west on Kirkville Road. The anticipated arrival/departure distribution for the facility is shown in Figure 1. The trips generated during each peak hour are and the resultant 2023 full build traffic volumes expected when the development is in full operation are also shown in Figure 1.

*Build Operations*

Based on the projected turning movements on Kirkville Road at Girden Road, there are sufficient gaps available to accommodate the proposed development.

Capacity analysis of the 2023 build condition continues to show minimal delays on Kirkville Road at Girden Road during both peak hours. The analysis does indicate that there may be longer delays of 1-2 minutes for vehicles to turn off Girden Road onto Kirkville Road during both peak hours. With minimal traffic volumes on Girden Road, even with the proposed transfer facility, there would be no notable queueing expected. Girden Road only has two houses on the roadway other than the operations at the southern end of the road associated with CSX. There is only expected to be 1 vehicle exiting the roadway every 2-3 minutes during the peak hours. Delays will be significantly reduced during off peak hour when volumes on Kirkville Road are lower.

The detailed Level of Service summary and capacity analysis printouts have been attached.

*Intersection Turning Radius Review*

Truck turning templates were reviewed for a WB-62 interstate tractor trailer turning left off Girden Road and right off Kirkville Road onto Girden Road assuming that the trucks can use the full width of Girden Road for turning movements. The turning templates indicate that some minor pavement

**Re: Traffic Impact Assessment – Proposed International Container Transfer Facility**
**Girden Road – Town of DeWitt, NY**

widening will be needed on the southwest corner of the intersection to accommodate the turning movement onto Girden Road.

The turning templates have been attached.

*Conclusions*

The additional traffic generated by the proposed International container transfer facility will be minor with less than 1 vehicle entering and exiting the site every 2-3 minutes during the busiest peak commuter hours. This estimate is conservative in that it assumes 10 employees are entering and exiting in addition to the truck traffic.

The minimal traffic increase will have no significant impact on traffic operations on Kirkville Road in the vicinity of the development. It is noted that westbound traffic may have to slow for accelerating trucks on Kirkville Road with slightly reduced sight lines for trucks looking to the east when exiting Girden Road. The sight distances are more than sufficient for passenger car traffic in both directions and there are no concerns with stopping sight distances.

There will be longer delays expected for vehicles turning off Girden Road, particularly during the morning and evening peak commuter hours when volumes are heavier on Kirkville Road. With little to no other traffic on Girden Road, these delays will be observed by the trucks and employee traffic generated by the site, and will have no impact on existing motorists traveling through the area.

The pavement radius on the southwest corner of the Kirkville Road/Girden Road intersection should be widened to accommodate the truck traffic turning right onto Girden Road.

If you have any questions or need additional information, please call.

Sincerely,

Gordon T. Stansbury, P.E., P.T.O.E.
GTS Consulting

Attachments –

| | | |
|---|---|---|
| | Level of Service Summary | Traffic Volume Figures 1 |
| | Truck Turning Template | NYSDOT AADT Data |
| | Gap Calculations | Spot Speed Data |
| | Growth Calculations | Accident Analysis |
| | Traffic Count Data | Capacity Analysis Printouts |

## Proposed International Container Transfer Facility – Girden Road – DeWitt, NY

## Intersection Level of Service Summary

### Morning Peak Hour

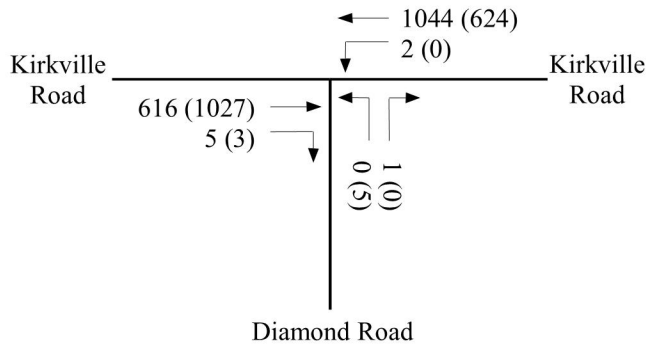
| Intersection | 2018 Existing | 2023 Background | 2023 Build |
|---|---|---|---|
| **Kirkville Road @ Girden Road** | | | |
| EB Through/Right | a(0) | a(0) | a(0) |
| WB Left/Through | a(0) | a(0) | a(1) |
| NB Left/Right | b(14) | b(15) | f(138) |

a(9) – Unsignalized Level of Service (Average Delay per Vehicle in Seconds)

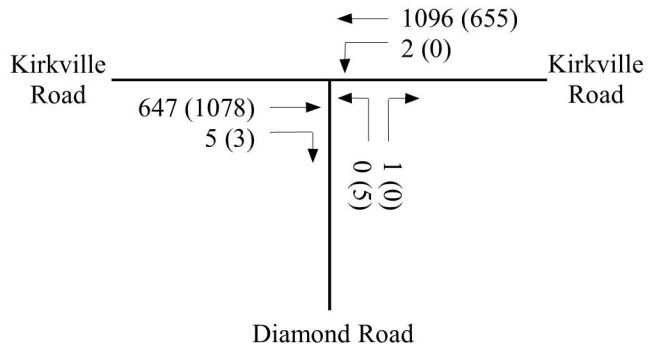
### Evening Peak Hour

| Intersection | 2018 Existing | 2023 Background | 2023 Build |
|---|---|---|---|
| **Kirkville Road @ Girden Road** | | | |
| EB Through/Right | a(0) | a(0) | a(0) |
| WB Left/Through | a(0) | a(0) | a(1) |
| NB Left/Right | f(63) | f(72) | f(106) |

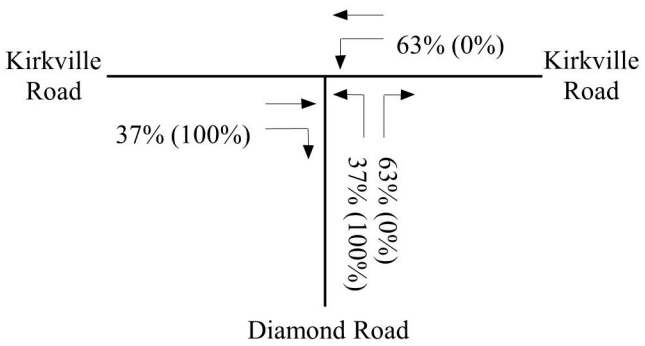
a(9) – Unsignalized Level of Service (Average Delay per Vehicle in Seconds)



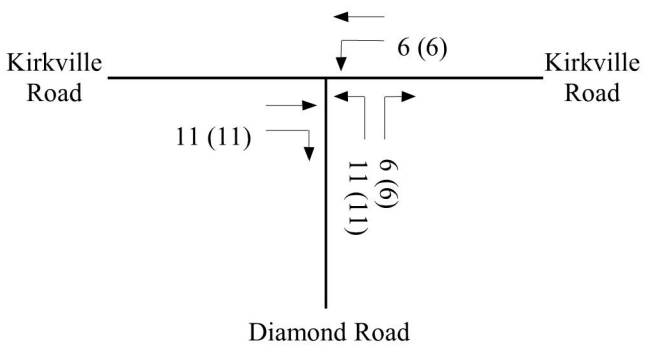

**2018 Existing Traffic Volumes**
Morning (Evening) Peak Hour



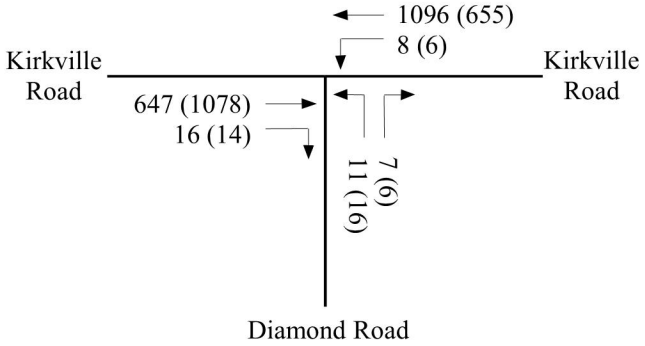

**2023 Background Traffic Volumes**
**With 1% Growth Per Year (5% Total)**
Morning (Evening) Peak Hour




**Arrival /Departure Trip Distribution**
Cars (Trucks)




**Trips Generated**
Morning (Evening) Peak Hour




**2023 Build Traffic Volumes**
Morning (Evening) Peak Hour

**Proposed International Container Transfer Facility - Girden Road, Town of DeWitt, NY**
Traffic Volume Projections

N
W E
GTS Consulting

**Figure 1**

Interstate Sign-Down
Mp 62

**STATION: 336116**

# New York State Department of Transportation
## Roadway Traffic Count Hourly Report

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ROUTE/ROAD: | KIRKVILLE RD | FROM: | ROBERTS ST | TO: | MANLIUS TN LN | REGION-COUNTY: | 3-ONONDAGA |
| FED DIR CODE: | 3, 7 | REF. MARKER: | | FUNC. CLASS: | 16 - U Minor Arterial | MUNI: | De Witt-Town-0233 |
| ST DIR CODE: | 7 | END MILEPOST: | 2.78 | FACTOR GROUP: | 30 | BIN: | 3312700 |
| DOT ID: | 129988 | LANES BY DIR: | 1 East 1 West | CC STN: | | RR CROSSING: | |
| BEGIN DATE: | 5/7/2014 | WEEK OF YEAR: | 19 | ADDL DATA: | CLS SPD | HPMS SAMPLE: | |
| NOTES 1: | WB TRAVEL LANE | PLACEMENT: | 60 FT E OF BENEDICT RD | JURISDICTION: | 02-County | 1 WAY CODE: | |
| NOTES 2: | | | | | | COUNT TYPE: | Vehicle |
| TAKEN BY: | TTG-AJW | PROCESSED BY: | DOT-SJW | BATCH ID: | DOT-SJWR3ww19 | SPEED LIMIT: | |

| DATE | 00-01 | 01-02 | 02-03 | 03-04 | 04-05 | 05-06 | 06-07 | 07-08 | 08-09 | 09-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | DAILY TOTAL | HIGH COUNT | HIGH HOUR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5/07, Wed | | | | | | | | | | | 694 | 736 | 802 | 874 | 1003 | 1486 | 1293 | 1257 | 1134 | 717 | 580 | 364 | 231 | 152 | 11323 | | |
| 5/08, Thu | 75 | 44 | 44 | 48 | 78 | 277 | 770 | 1649 | 1242 | 708 | 671 | 810 | 834 | 849 | 1008 | 1604 | 1711 | 1744 | 1036 | 783 | 604 | 357 | 279 | 157 | 17382 | 1744 | 17-18 |
| 5/09, Fri | 86 | 53 | 62 | 62 | 84 | 260 | 750 | 1528 | 1218 | 859 | 845 | 839 | 945 | 1003 | 1176 | 1583 | 1732 | 1607 | 1114 | 758 | 652 | 431 | 296 | 243 | 18186 | 1732 | 16-17 |
| 5/10, Sat | 108 | 67 | 45 | 49 | 50 | 107 | 249 | 424 | 680 | 794 | 871 | 887 | 869 | 897 | 930 | 887 | 858 | 708 | 666 | 527 | 490 | 371 | 283 | 225 | 12042 | 930 | 14-15 |
| 5/11, Sun | 136 | 88 | 68 | 32 | 49 | 59 | 137 | 249 | 415 | 537 | 743 | 784 | 905 | 946 | 916 | 781 | 775 | 657 | 712 | 565 | 449 | 287 | 191 | 110 | 10591 | 946 | 13-14 |
| 5/12, Mon | 43 | 26 | 37 | 46 | 89 | 265 | 824 | 1657 | 1349 | 753 | 734 | 790 | 841 | 879 | 1036 | 1484 | 1767 | 1673 | 1003 | 690 | 543 | 340 | 221 | 150 | 17240 | 1767 | 16-17 |
| 5/13, Tue | 73 | 32 | 43 | 52 | 89 | 277 | 787 | 1647 | 1287 | | | | | | | | | | | | | | | | 4287 | | |
| **AVERAGE WEEKDAY HOURS (Axle Factored, Mon 6 AM to Fri Noon)** | | | | | | | | | | | | | | | | | | | | | | | | | **AWDT** | | |
| | 78 | 43 | 50 | 54 | 84 | 271 | 783 | 1620 | 1274 | 773 | 736 | 794 | 826 | 867 | 1016 | 1525 | 1590 | 1558 | 1058 | 730 | 576 | 354 | 244 | 153 | 17055 | | |

| DAYS Counted | HOURS Counted | WEEKDAYS Counted | WEEKDAY Hours | AVERAGE WEEKDAY Roadway High Hour | Roadway % of day | East High Hour | East % of day | West High Hour | West % of day | ESTIMATED AADT Roadway | East | West |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 143 | 3 | 77 | 1620 | 9.5 | 1032 | 11.8 | 1071 | 12.9 | 15827 | 8147 | 7680 |

**FACTOR**

| Month | Seasonal | Sun | Mon | Tue | Wed | Thu | Fri | Sat | Axl |
|---|---|---|---|---|---|---|---|---|---|
| 5 | 1.08 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |

**STATION: 336116**

# New York State Department of Transportation
## EB Traffic Count Hourly Report

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ROUTE/ROAD: | KIRKVILLE RD | FROM: | ROBERTS ST | TO: | MANLIUS TN LN | REGION-COUNTY: | 3-ONONDAGA |
| FED DIR CODE: | 3 | REF. MARKER: | | FUNC. CLASS: | 16 - U Minor Arterial | MUNI: | De Witt-Town-0233 |
| ST DIR CODE: | 7 | END MILEPOST: | 2.78 | FACTOR GROUP: | 30 | BIN: | 3312700 |
| DOT ID: | 129988 | LANES BY DIR: | 1 East | CC STN: | | RR CROSSING: | |
| BEGIN DATE: | 5/7/2014 | WEEK OF YEAR: | 19 | ADDL DATA: | CLS SPD | HPMS SAMPLE: | |
| NOTES 1: | WB TRAVEL LANE | PLACEMENT: | 60 FT E OF BENEDICT RD | JURISDICTION: | 02-County | 1 WAY CODE: | |
| NOTES 2: | | | | | | COUNT TYPE: | Vehicle |
| TAKEN BY: | TTG-AJW | PROCESSED BY: | DOT-SJW | BATCH ID: | DOT-SJWR3ww19 | SPEED LIMIT: | |

| DATE | 00-01 | 01-02 | 02-03 | 03-04 | 04-05 | 05-06 | 06-07 | 07-08 | 08-09 | 09-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | DAILY TOTAL | HIGH COUNT | HIGH HOUR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5/07, Wed | | | | | | | | | | | 368 | 379 | 425 | 479 | 537 | 898 | 858 | 790 | 590 | 388 | 301 | 249 | 147 | 82 | 6491 | | |
| 5/08, Thu | 53 | 32 | 19 | 23 | 30 | 74 | 242 | 545 | 511 | 302 | 327 | 406 | 446 | 459 | 529 | 939 | 1104 | 1128 | 598 | 396 | 311 | 234 | 171 | 85 | 8964 | 1128 | 17-18 |
| 5/09, Fri | 64 | 38 | 37 | 28 | 31 | 80 | 244 | 516 | 498 | 387 | 412 | 432 | 525 | 544 | 612 | 893 | 1146 | 995 | 593 | 416 | 360 | 277 | 171 | 158 | 9457 | 1146 | 16-17 |
| 5/10, Sat | 73 | 49 | 33 | 23 | 21 | 32 | 104 | 186 | 297 | 368 | 425 | 456 | 485 | 444 | 568 | 472 | 426 | 384 | 366 | 299 | 273 | 225 | 161 | 135 | 6305 | 568 | 14-15 |
| 5/11, Sun | 84 | 54 | 50 | 20 | 23 | 22 | 54 | 118 | 186 | 239 | 369 | 443 | 509 | 532 | 497 | 436 | 433 | 350 | 347 | 281 | 249 | 176 | 114 | 62 | 5648 | 532 | 13-14 |
| 5/12, Mon | 36 | 17 | 25 | 17 | 21 | 88 | 276 | 566 | 550 | 354 | 353 | 418 | 424 | 474 | 519 | 814 | 1135 | 1126 | 548 | 423 | 267 | 180 | 135 | 83 | 8849 | 1135 | 16-17 |
| 5/13, Tue | 44 | 20 | 26 | 25 | 25 | 83 | 266 | 569 | 508 | | | | | | | | | | | | | | | | 1566 | | |
| **AVERAGE WEEKDAY HOURS (Axle Factored, Mon 6 AM to Fri Noon)** | | | | | | | | | | | | | | | | | | | | | | | | | **AWDT** | | |
| | 54 | 30 | 27 | 25 | 29 | 79 | 257 | 549 | 517 | 348 | 365 | 409 | 432 | 471 | 528 | 884 | 1032 | 1015 | 579 | 402 | 293 | 221 | 151 | 83 | 8779 | | |

| DAYS Counted | HOURS Counted | WEEKDAYS Counted | WEEKDAY Hours | AVERAGE WEEKDAY Roadway High Hour | Roadway % of day | East High Hour | East % of day | West High Hour | West % of day | ESTIMATED AADT Roadway | East | West |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 143 | 3 | 77 | 1620 | 9.5 | 1032 | 11.8 | 1071 | 12.9 | 15827 | 8147 | 7680 |

**FACTOR**

| Month | Seasonal | Sun | Mon | Tue | Wed | Thu | Fri | Sat | Axl |
|---|---|---|---|---|---|---|---|---|---|
| 5 | 1.08 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |

# New York State Department of Transportation

## STATION: 336116

## WB Traffic Count Hourly Report

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ROUTE/ROAD: | KIRKVILLE RD | FROM: | ROBERTS ST | TO: | MANLIUS TN LN | REGION-COUNTY: | 3-ONONDAGA |
| FED DIR CODE: | 7 | REF. MARKER: | | FUNC. CLASS: | 16 - U Minor Arterial | MUNI: | De Witt-Town-0233 |
| ST DIR CODE: | 7 | END MILEPOST: | 2.78 | FACTOR GROUP: | 30 | BIN: | 3312700 |
| DOT ID: | 129988 | LANES BY DIR: | 1 West | CC STN: | | RR CROSSING: | |
| BEGIN DATE: | 5/7/2014 | WEEK OF YEAR: | 19 | ADDL DATA: | CLS SPD | HPMS SAMPLE: | |
| NOTES 1: | WB TRAVEL LANE | PLACEMENT: | 60 FT E OF BENEDICT RD | JURISDICTION: | 02-County | 1 WAY CODE: | |
| NOTES 2: | | | | | | COUNT TYPE: | Vehicle |
| TAKEN BY: | TTG-AJW | PROCESSED BY: | DOT-SJW | BATCH ID: | DOT-SJWR3ww19 | SPEED LIMIT: | |

| DATE | 00-01 | 01-02 | 02-03 | 03-04 | 04-05 | 05-06 | 06-07 | 07-08 | 08-09 | 09-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | DAILY TOTAL | HIGH COUNT | HIGH HOUR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5/07, Wed | | | | | | | | | | | 326 | 357 | 377 | 395 | 466 | 588 | 435 | 467 | 544 | 329 | 279 | 115 | 84 | 70 | 4832 | | |
| 5/08, Thu | 22 | 12 | 25 | 25 | 48 | 203 | 528 | 1104 | 731 | 406 | 344 | 404 | 388 | 390 | 479 | 665 | 607 | 616 | 438 | 387 | 293 | 123 | 108 | 72 | 8418 | 1104 | 07-08 |
| 5/09, Fri | 22 | 15 | 25 | 34 | 53 | 180 | 506 | 1012 | 720 | 472 | 433 | 407 | 420 | 459 | 564 | 690 | 586 | 612 | 521 | 342 | 292 | 154 | 125 | 85 | 8729 | 1012 | 07-08 |
| 5/10, Sat | 35 | 18 | 12 | 26 | 29 | 75 | 145 | 238 | 383 | 426 | 446 | 431 | 384 | 453 | 362 | 415 | 432 | 324 | 300 | 228 | 217 | 146 | 122 | 90 | 5737 | 453 | 13-14 |
| 5/11, Sun | 52 | 34 | 18 | 12 | 26 | 37 | 83 | 131 | 229 | 298 | 374 | 341 | 396 | 414 | 419 | 345 | 342 | 307 | 365 | 284 | 200 | 111 | 77 | 48 | 4943 | 419 | 14-15 |
| 5/12, Mon | 7 | 9 | 12 | 29 | 68 | 177 | 548 | 1091 | 799 | 399 | 381 | 372 | 417 | 405 | 517 | 670 | 632 | 547 | 455 | 267 | 276 | 160 | 86 | 67 | 8391 | 1091 | 07-08 |
| 5/13, Tue | 29 | 12 | 17 | 27 | 64 | 194 | 521 | 1078 | 779 | | | | | | | | | | | | | | | | 2721 | | |
| **AVERAGE WEEKDAY HOURS (Axle Factored, Mon 6 AM to Fri Noon)** | | | | | | | | | | | | | | | | | | | | | | | | | **AWDT** | | |
| | 24 | 13 | 22 | 29 | 55 | 192 | 526 | 1071 | 757 | 426 | 371 | 385 | 394 | 397 | 487 | 641 | 558 | 543 | 479 | 328 | 283 | 133 | 93 | 70 | 8276 | | |

| DAYS Counted | HOURS Counted | WEEKDAYS Counted | WEEKDAY Hours | AVERAGE WEEKDAY Roadway High Hour | Roadway % of day | East High Hour | East % of day | West High Hour | West % of day | ESTIMATED AADT Roadway | East | West |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 143 | 3 | 77 | 1620 | 9.5 | 1032 | 11.8 | 1071 | 12.9 | 15827 | 8147 | 7680 |

**FACTOR**

| Month | Seasonal | Sun | Mon | Tue | Wed | Thu | Fri | Sat | Axl |
|---|---|---|---|---|---|---|---|---|---|
| 5 | 1.08 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |

**STATION: 331145**

# New York State Department of Transportation
## Roadway Traffic Count Hourly Report

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ROUTE/ROAD: | KIRKVILLE RD | FROM: | MANLIUS TN LN | TO: | FREEMONT RD | REGION-COUNTY: | 3-ONONDAGA |
| FED DIR CODE: | 3, 7 | REF. MARKER: | | FUNC. CLASS: | 16 - U Minor Arterial | MUNI: | Manlius-Town-0506 |
| ST DIR CODE: | 7 | END MILEPOST: | 3.36 | FACTOR GROUP: | 30 | BIN: | |
| DOT ID: | 129988 | LANES BY DIR: | 1 East 1 West | CC STN: | | RR CROSSING: | |
| BEGIN DATE: | 4/21/2014 | WEEK OF YEAR: | 16 | ADDL DATA: | | HPMS SAMPLE: | |
| NOTES 1: | WB TRAVEL LANE | PLACEMENT: | 1200 FT W OF FREEMONT RD | JURISDICTION: | 02-County | 1 WAY CODE: | |
| NOTES 2: | | | | | | COUNT TYPE: | Axle |
| TAKEN BY: | TST---- | PROCESSED BY: | R03-JAB | BATCH ID: | DOT-R03R3 WW | SPEED LIMIT: | 55 |

| DATE | 00-01 | 01-02 | 02-03 | 03-04 | 04-05 | 05-06 | 06-07 | 07-08 | 08-09 | 09-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | DAILY TOTAL | HIGH COUNT | HIGH HOUR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/21, Mon | | | | | | | | | | | | | | **799** | **917** | **1098** | **1384** | **1321** | **725** | **540** | **403** | **285** | **175** | **148** | 7795 | | |
| 4/22, Tue | **63** | **44** | **51** | **49** | **91** | **226** | **656** | **1190** | **919** | **629** | **676** | **703** | **773** | **730** | **803** | **1133** | **1369** | **1347** | **713** | **514** | **384** | **271** | **203** | **126** | 13663 | 1369 | 16-17 |
| 4/23, Wed | **62** | **30** | **56** | **54** | **86** | **264** | **627** | **1139** | **976** | **613** | **667** | **639** | **735** | **740** | **840** | **1056** | **1364** | **1400** | **775** | **518** | **409** | **310** | **234** | **128** | 13722 | 1400 | 17-18 |
| 4/24, Thu | **67** | **41** | **53** | **53** | **97** | **257** | **661** | **1139** | **909** | **712** | **671** | **796** | | | | | | | | | | | | | 5456 | | |
| **AVERAGE WEEKDAY HOURS (Axle Factored, Mon 6 AM to Fri Noon)** | | | | | | | | | | | | | | | | | | | | | | | | | **AWDT** | | |
| | **63** | **38** | **52** | **51** | **90** | **245** | **636** | **1135** | **918** | **640** | **659** | **700** | **740** | **743** | **838** | **1076** | **1348** | **1332** | **724** | **515** | **391** | **283** | **200** | **132** | 13548 | | |

| DAYS Counted | HOURS Counted | WEEKDAYS Counted | WEEKDAY Hours | AVERAGE WEEKDAY Roadway High Hour | Roadway % of day | East High Hour | East % of day | West High Hour | West % of day |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 71 | 3 | 71 | 1348 | 9.9 | 903 | 12.9 | 818 | 12.5 |

| ESTIMATED AADT Roadway | East | West |
|---|---|---|
| 12884 | 6648 | 6237 |

**FACTOR**

| Month | Seasonal | Sun | Mon | Tue | Wed | Thu | Fri | Sat | Axl |
|---|---|---|---|---|---|---|---|---|---|
| 4 | 1.05 | | 1.00 | 1.00 | 1.00 | 1.00 | | | 0.98 |

**STATION: 331145**

# New York State Department of Transportation
## EB Traffic Count Hourly Report

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ROUTE/ROAD: | KIRKVILLE RD | FROM: | MANLIUS TN LN | TO: | FREEMONT RD | REGION-COUNTY: | 3-ONONDAGA |
| FED DIR CODE: | 3 | REF. MARKER: | | FUNC. CLASS: | 16 - U Minor Arterial | MUNI: | Manlius-Town-0506 |
| ST DIR CODE: | 7 | END MILEPOST: | 3.36 | FACTOR GROUP: | 30 | BIN: | |
| DOT ID: | 129988 | LANES BY DIR: | 1 East | CC STN: | | RR CROSSING: | |
| BEGIN DATE: | 4/21/2014 | WEEK OF YEAR: | 16 | ADDL DATA: | | HPMS SAMPLE: | |
| NOTES 1: | WB TRAVEL LANE | PLACEMENT: | 1200 FT W OF FREEMONT RD | JURISDICTION: | 02-County | 1 WAY CODE: | |
| NOTES 2: | | | | | | COUNT TYPE: | Axle |
| TAKEN BY: | TST---- | PROCESSED BY: | R03-JAB | BATCH ID: | DOT-R03R3 WW | SPEED LIMIT: | 55 |

| DATE | 00-01 | 01-02 | 02-03 | 03-04 | 04-05 | 05-06 | 06-07 | 07-08 | 08-09 | 09-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | DAILY TOTAL | HIGH COUNT | HIGH HOUR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/21, Mon | | | | | | | | | | | | | | **402** | **503** | **653** | **885** | **894** | **413** | **312** | **246** | **174** | **111** | **90** | 4683 | | |
| 4/22, Tue | **39** | **30** | **29** | **20** | **25** | **63** | **183** | **328** | **330** | **276** | **328** | **345** | **392** | **381** | **453** | **674** | **868** | **936** | **399** | **310** | **241** | **181** | **129** | **89** | 7049 | 936 | 17-18 |
| 4/23, Wed | **43** | **19** | **37** | **20** | **25** | **68** | **190** | **319** | **348** | **265** | **311** | **310** | **387** | **387** | **463** | **669** | **881** | **930** | **443** | **329** | **248** | **192** | **153** | **81** | 7118 | 930 | 17-18 |
| 4/24, Thu | **51** | **27** | **27** | **25** | **35** | **61** | **209** | **323** | **320** | **334** | **311** | **393** | | | | | | | | | | | | | 2116 | | |
| **AVERAGE WEEKDAY HOURS (Axle Factored, Mon 6 AM to Fri Noon)** | | | | | | | | | | | | | | | | | | | | | | | | | **AWDT** | | |
| | **44** | **25** | **30** | **21** | **28** | **63** | **191** | **318** | **327** | **286** | **311** | **343** | **382** | **383** | **464** | **653** | **862** | **903** | **411** | **311** | **241** | **179** | **129** | **85** | 6991 | | |

| DAYS Counted | HOURS Counted | WEEKDAYS Counted | WEEKDAY Hours | AVERAGE WEEKDAY Roadway High Hour | Roadway % of day | East High Hour | East % of day | West High Hour | West % of day |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 71 | 3 | 71 | 1348 | 9.9 | 903 | 12.9 | 818 | 12.5 |

| ESTIMATED AADT Roadway | East | West |
|---|---|---|
| 12884 | 6648 | 6237 |

**FACTOR**

| Month | Seasonal | Sun | Mon | Tue | Wed | Thu | Fri | Sat | Axl |
|---|---|---|---|---|---|---|---|---|---|
| 4 | 1.05 | | 1.00 | 1.00 | 1.00 | 1.00 | | | 0.98 |

**STATION: 331145**

# New York State Department of Transportation
## WB Traffic Count Hourly Report

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ROUTE/ROAD: | KIRKVILLE RD | FROM: | MANLIUS TN LN | TO: | FREEMONT RD | REGION-COUNTY: | 3-ONONDAGA |
| FED DIR CODE: | 7 | REF. MARKER: | | FUNC. CLASS: | 16 - U Minor Arterial | MUNI: | Manlius-Town-0506 |
| ST DIR CODE: | 7 | END MILEPOST: | 3.36 | FACTOR GROUP: | 30 | BIN: | |
| DOT ID: | 129988 | LANES BY DIR: | 1 West | CC STN: | | RR CROSSING: | |
| BEGIN DATE: | 4/21/2014 | WEEK OF YEAR: | 16 | ADDL DATA: | | HPMS SAMPLE: | |
| NOTES 1: | WB TRAVEL LANE | PLACEMENT: | 1200 FT W OF FREEMONT RD | JURISDICTION: | 02-County | 1 WAY CODE: | |
| NOTES 2: | | | | | | COUNT TYPE: | Axle |
| TAKEN BY: | TST---- | PROCESSED BY: | R03-JAB | BATCH ID: | DOT-R03R3 WW | SPEED LIMIT: | 55 |

| DATE | 00-01 | 01-02 | 02-03 | 03-04 | 04-05 | 05-06 | 06-07 | 07-08 | 08-09 | 09-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | DAILY TOTAL | HIGH COUNT | HIGH HOUR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/21, Mon | | | | | | | | | | | | | | **397** | **414** | **445** | **499** | **427** | **312** | **228** | **157** | **111** | **64** | **58** | 3112 | | |
| 4/22, Tue | **24** | **14** | **22** | **29** | **66** | **163** | **473** | **862** | **589** | **353** | **348** | **358** | **381** | **349** | **350** | **459** | **501** | **411** | **314** | **204** | **143** | **90** | **74** | **37** | 6614 | 862 | 07-08 |
| 4/23, Wed | **19** | **11** | **19** | **34** | **61** | **196** | **437** | **820** | **628** | **348** | **356** | **329** | **348** | **353** | **377** | **387** | **483** | **470** | **332** | **189** | **161** | **118** | **81** | **47** | 6604 | 820 | 07-08 |
| 4/24, Thu | **16** | **14** | **26** | **28** | **62** | **196** | **452** | **816** | **589** | **378** | **360** | **403** | | | | | | | | | | | | | 3340 | | |
| **AVERAGE WEEKDAY HOURS (Axle Factored, Mon 6 AM to Fri Noon)** | | | | | | | | | | | | | | | | | | | | | | | | | **AWDT** | | |
| | **19** | **13** | **22** | **30** | **62** | **182** | **446** | **818** | **591** | **353** | **348** | **357** | **358** | **360** | **373** | **423** | **485** | **428** | **314** | **203** | **151** | **104** | **72** | **46** | 6558 | | |

| DAYS Counted | HOURS Counted | WEEKDAYS Counted | WEEKDAY Hours | AVERAGE WEEKDAY Roadway High Hour | Roadway % of day | East High Hour | East % of day | West High Hour | West % of day |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 71 | 3 | 71 | 1348 | 9.9 | 903 | 12.9 | 818 | 12.5 |

| ESTIMATED AADT Roadway | East | West |
|---|---|---|
| 12884 | 6648 | 6237 |

**FACTOR**

| Month | Seasonal | Sun | Mon | Tue | Wed | Thu | Fri | Sat | Axl |
|---|---|---|---|---|---|---|---|---|---|
| 4 | 1.05 | | 1.00 | 1.00 | 1.00 | 1.00 | | | 0.98 |

# New York State Department of Transportation
## Roadway Traffic Count Hourly Report

**STATION: 331143**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ROUTE/ROAD: | GIRDEN RD | FROM: | KIRKVILLE RD | TO: | DEAD END | REGION-COUNTY: | 3-ONONDAGA |
| FED DIR CODE: | 1, 5 | REF. MARKER: | | FUNC. CLASS: | 19 - U Local System | MUNI: | De Witt-Town-0233 |
| ST DIR CODE: | 1, 2 | END MILEPOST: | .61 | FACTOR GROUP: | 30 | BIN: | |
| DOT ID: | 131758 | LANES BY DIR: | 1 North 1 South | CC STN: | | RR CROSSING: | |
| BEGIN DATE: | 6/24/2013 | WEEK OF YEAR: | 25 | ADDL DATA: | | HPMS SAMPLE: | |
| NOTES 1: | nb travel lane | PLACEMENT: | .35 miles south of kirksvill | JURISDICTION: | 03-Town | 1 WAY CODE: | |
| NOTES 2: | sb travel lane | | | | | COUNT TYPE: | Vehicle |
| TAKEN BY: | TST-dnm | PROCESSED BY: | R03-JAB | BATCH ID: | DOT-R03r3ww26 | SPEED LIMIT: | |

| DATE | 00-01 | 01-02 | 02-03 | 03-04 | 04-05 | 05-06 | 06-07 | 07-08 | 08-09 | 09-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | DAILY TOTAL | HIGH COUNT | HIGH HOUR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/24, Mon | | | | | | | | | | | | | **11** | **11** | **19** | **18** | **11** | **5** | **3** | **6** | **2** | **0** | **4** | **5** | 95 | | |
| 6/25, Tue | **1** | **4** | **2** | **0** | **1** | **5** | **13** | **8** | **11** | **5** | **11** | **16** | **12** | **17** | **26** | **15** | **6** | **3** | **2** | **3** | **0** | **1** | **8** | **4** | 174 | 26 | 14-15 |
| 6/26, Wed | **0** | **0** | **0** | **4** | **4** | **7** | **9** | **10** | **9** | **8** | **7** | **15** | **6** | **12** | **17** | **15** | **5** | **3** | **1** | **4** | **3** | **5** | **11** | **1** | 156 | 17 | 14-15 |
| 6/27, Thu | **3** | **3** | **0** | **0** | **3** | **8** | **11** | **8** | **12** | **4** | **10** | | | | | | | | | | | | | | 62 | | |
| **AVERAGE WEEKDAY HOURS (Axle Factored, Mon 6 AM to Fri Noon)** | | | | | | | | | | | | | | | | | | | | | | | | | **AWDT** | | |
| | **1** | **2** | **1** | **1** | **3** | **7** | **11** | **9** | **11** | **6** | **9** | **16** | **10** | **13** | **21** | **16** | **7** | **4** | **2** | **4** | **2** | **2** | **8** | **3** | 168 | | |

| DAYS Counted | HOURS Counted | WEEKDAYS Counted | WEEKDAY Hours | AVERAGE WEEKDAY Roadway High Hour | Roadway % of day | North High Hour | North % of day | South High Hour | South % of day |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 71 | 3 | 71 | 21 | 12.5 | 10 | 13.2 | 10 | 11 |

| ESTIMATED AADT Roadway | North | South |
|---|---|---|
| 159 | 73 | 86 |

**FACTOR**

| Month | Seasonal | Sun | Mon | Tue | Wed | Thu | Fri | Sat | Axl |
|---|---|---|---|---|---|---|---|---|---|
| 6 | 1.05 | | 1.00 | 1.00 | 1.00 | 1.00 | | | 1.00 |

**STATION: 331143**

# New York State Department of Transportation
## NB Traffic Count Hourly Report

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ROUTE/ROAD: | GIRDEN RD | FROM: | KIRKVILLE RD | TO: | DEAD END | REGION-COUNTY: | 3-ONONDAGA |
| FED DIR CODE: | 1 | REF. MARKER: | | FUNC. CLASS: | 19 - U Local System | MUNI: | De Witt-Town-0233 |
| ST DIR CODE: | 1, 2 | END MILEPOST: | .61 | FACTOR GROUP: | 30 | BIN: | |
| DOT ID: | 131758 | LANES BY DIR: | 1 North | CC STN: | | RR CROSSING: | |
| BEGIN DATE: | 6/24/2013 | WEEK OF YEAR: | 25 | ADDL DATA: | | HPMS SAMPLE: | |
| NOTES 1: | nb travel lane | PLACEMENT: | .35 miles south of kirksvill | JURISDICTION: | 03-Town | 1 WAY CODE: | |
| NOTES 2: | sb travel lane | | | | | COUNT TYPE: | Vehicle |
| TAKEN BY: | TST-dnm | PROCESSED BY: | R03-JAB | BATCH ID: | DOT-R03r3ww26 | SPEED LIMIT: | |

| DATE | 00-01 | 01-02 | 02-03 | 03-04 | 04-05 | 05-06 | 06-07 | 07-08 | 08-09 | 09-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | DAILY TOTAL | HIGH COUNT | HIGH HOUR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/24, Mon | | | | | | | | | | | | | **2** | **6** | **9** | **10** | **5** | **3** | **3** | **2** | **2** | **0** | **1** | **5** | 48 | | |
| 6/25, Tue | **0** | **3** | **1** | **0** | **0** | **1** | **2** | **4** | **5** | **1** | **5** | **7** | **6** | **7** | **14** | **7** | **3** | **2** | **1** | **1** | **0** | **0** | **5** | **4** | 79 | 14 | 14-15 |
| 6/26, Wed | **0** | **0** | **0** | **3** | **1** | **2** | **1** | **3** | **2** | **6** | **3** | **8** | **3** | **7** | **8** | **7** | **2** | **1** | **1** | **0** | **2** | **4** | **7** | **1** | 72 | 8 | 14-15 |
| 6/27, Thu | **2** | **3** | **0** | **0** | **0** | **2** | **2** | **2** | **5** | **0** | **7** | | | | | | | | | | | | | | 23 | | |
| **AVERAGE WEEKDAY HOURS (Axle Factored, Mon 6 AM to Fri Noon)** | | | | | | | | | | | | | | | | | | | | | | | | | **AWDT** | | |
| | **1** | **2** | **0** | **1** | **0** | **2** | **2** | **3** | **4** | **2** | **5** | **8** | **4** | **7** | **10** | **8** | **3** | **2** | **2** | **1** | **1** | **1** | **4** | **3** | 76 | | |

| DAYS Counted | HOURS Counted | WEEKDAYS Counted | WEEKDAY Hours | AVERAGE WEEKDAY Roadway High Hour | Roadway % of day | North High Hour | North % of day | South High Hour | South % of day | ESTIMATED AADT Roadway | North | South |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 71 | 3 | 71 | 21 | 12.5 | 10 | 13.2 | 10 | 11 | 159 | 73 | 86 |

**FACTOR**

| Month | Seasonal | Sun | Mon | Tue | Wed | Thu | Fri | Sat | Axl |
|---|---|---|---|---|---|---|---|---|---|
| 6 | 1.05 | | 1.00 | 1.00 | 1.00 | 1.00 | | | 1.00 |

**STATION: 331143**

# New York State Department of Transportation
## SB Traffic Count Hourly Report

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ROUTE/ROAD: | GIRDEN RD | FROM: | KIRKVILLE RD | TO: | DEAD END | REGION-COUNTY: | 3-ONONDAGA |
| FED DIR CODE: | 5 | REF. MARKER: | | FUNC. CLASS: | 19 - U Local System | MUNI: | De Witt-Town-0233 |
| ST DIR CODE: | 1, 2 | END MILEPOST: | .61 | FACTOR GROUP: | 30 | BIN: | |
| DOT ID: | 131758 | LANES BY DIR: | 1 South | CC STN: | | RR CROSSING: | |
| BEGIN DATE: | 6/24/2013 | WEEK OF YEAR: | 25 | ADDL DATA: | | HPMS SAMPLE: | |
| NOTES 1: | nb travel lane | PLACEMENT: | .35 miles south of kirksvill | JURISDICTION: | 03-Town | 1 WAY CODE: | |
| NOTES 2: | sb travel lane | | | | | COUNT TYPE: | Vehicle |
| TAKEN BY: | TST-dnm | PROCESSED BY: | R03-JAB | BATCH ID: | DOT-R03r3ww26 | SPEED LIMIT: | |

| DATE | 00-01 | 01-02 | 02-03 | 03-04 | 04-05 | 05-06 | 06-07 | 07-08 | 08-09 | 09-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | DAILY TOTAL | HIGH COUNT | HIGH HOUR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/24, Mon | | | | | | | | | | | | | 9 | 5 | 10 | 8 | 6 | 2 | 0 | 4 | 0 | 0 | 3 | 0 | 47 | | |
| 6/25, Tue | 1 | 1 | 1 | 0 | 1 | 4 | 11 | 4 | 6 | 4 | 6 | 9 | 6 | 10 | 12 | 8 | 3 | 1 | 1 | 2 | 0 | 1 | 3 | 0 | 95 | 12 | 14-15 |
| 6/26, Wed | 0 | 0 | 0 | 1 | 3 | 5 | 8 | 7 | 7 | 2 | 4 | 7 | 3 | 5 | 9 | 8 | 3 | 2 | 0 | 4 | 1 | 1 | 4 | 0 | 84 | 9 | 14-15 |
| 6/27, Thu | 1 | 0 | 0 | 0 | 3 | 6 | 9 | 6 | 7 | 4 | 3 | | | | | | | | | | | | | | 39 | | |
| **AVERAGE WEEKDAY HOURS (Axle Factored, Mon 6 AM to Fri Noon)** | | | | | | | | | | | | | | | | | | | | | | | | | **AWDT** | | |
| | 1 | 0 | 0 | 0 | 2 | 5 | 9 | 6 | 7 | 3 | 4 | 8 | 6 | 7 | 10 | 8 | 4 | 2 | 0 | 3 | 0 | 1 | 3 | 0 | 91 | | |

| DAYS Counted | HOURS Counted | WEEKDAYS Counted | WEEKDAY Hours | AVERAGE WEEKDAY Roadway High Hour | Roadway % of day | North High Hour | North % of day | South High Hour | South % of day |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 71 | 3 | 71 | 21 | 12.5 | 10 | 13.2 | 10 | 11 |

| ESTIMATED AADT Roadway | North | South |
|---|---|---|
| 159 | 73 | 86 |

**FACTOR**

| Month | Seasonal | Sun | Mon | Tue | Wed | Thu | Fri | Sat | Axl |
|---|---|---|---|---|---|---|---|---|---|
| 6 | 1.05 | | 1.00 | 1.00 | 1.00 | 1.00 | | | 1.00 |

**Intersection Gap Study**

Project: Proposed International Container Transfer Facility, Town of DeWitt, NY
Date: 12/4/2018

Intersection: Girden Road @ Kirkville Road
Movement: Right Turns Exiting / Left Turns Entering

| Time Interval | | 6-9 sec x 1 | 10-13 sec x 2 | 14-17 sec x 3 | 18-19 sec x 4 | 20-23 sec x 5 | 24-25 sec x 6 | 26-29 sec x 7 | >29 sec x 8 | Interval Total | Hour Total |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Morning Peak | | | | | | | | | | | |
| 7:15-7:30am | # of Gaps | 21 | 11 | 7 | 3 | 3 | 1 | 0 | 0 | | |
| | **# of Vehicles** | **21** | **22** | **21** | **12** | **15** | **6** | **0** | **0** | **97** | |
| 7:30-7:45am | # of Gaps | 23 | 8 | 7 | 1 | 2 | 0 | 1 | 3 | | |
| | **# of Vehicles** | **23** | **16** | **21** | **4** | **10** | **0** | **7** | **24** | **105** | |
| 7:45-8:00am | # of Gaps | 18 | 6 | 6 | 2 | 2 | 2 | 0 | 0 | | |
| | **# of Vehicles** | **18** | **12** | **18** | **8** | **10** | **12** | **0** | **0** | **78** | |
| 8:00-8:15am | # of Gaps | 10 | 14 | 5 | 0 | 3 | 2 | 1 | 4 | | |
| | **# of Vehicles** | **10** | **28** | **15** | **0** | **15** | **12** | **7** | **32** | **119** | **399** |
| Evening Peak | | | | | | | | | | | |
| 4:00-4:15pm | # of Gaps | 15 | 5 | 5 | 1 | 1 | 0 | 0 | 0 | | |
| | **# of Vehicles** | **15** | **10** | **15** | **4** | **5** | **0** | **0** | **0** | **49** | |
| 4:15-4:30pm | # of Gaps | 22 | 11 | 3 | 1 | 0 | 0 | 0 | 0 | | |
| | **# of Vehicles** | **22** | **22** | **9** | **4** | **0** | **0** | **0** | **0** | **57** | |
| 4:30-4:45pm | # of Gaps | 15 | 4 | 5 | 2 | 1 | 0 | 0 | 0 | | |
| | **# of Vehicles** | **15** | **8** | **15** | **8** | **5** | **0** | **0** | **0** | **51** | |
| 4:55-5:00pm | # of Gaps | 15 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | | |
| | **# of Vehicles** | **15** | **12** | **3** | **0** | **0** | **0** | **0** | **0** | **30** | **187** |

**Intersection Gap Study**

GTS Consulting

Project: Proposed International Container Transfer Facility, Town of DeWitt, NY
Date: 12/4/2018

Intersection: Girden Road @ Kirkville Road
Movement: Left Turns Exiting

| Time Interval | | 6-9 sec x 1 | 10-13 sec x 2 | 14-17 sec x 3 | 18-19 sec x 4 | 20-23 sec x 5 | 24-25 sec x 6 | 26-29 sec x 7 | >29 sec x 8 | Interval Total | Hour Total |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Morning Peak | | | | | | | | | | | |
| 7:15-7:30am | # of Gaps | 10 | 5 | 3 | 0 | 1 | 0 | 0 | 0 | | |
| | **# of Vehicles** | **10** | **10** | **9** | **0** | **5** | **0** | **0** | **0** | **34** | |
| 7:30-7:45am | # of Gaps | 12 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | | |
| | **# of Vehicles** | **12** | **4** | **3** | **0** | **0** | **0** | **0** | **0** | **19** | |
| 7:45-8:00am | # of Gaps | 7 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | | |
| | **# of Vehicles** | **7** | **0** | **3** | **4** | **0** | **0** | **0** | **0** | **14** | |
| 8:00-8:15am | # of Gaps | 18 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | | |
| | **# of Vehicles** | **18** | **14** | **3** | **0** | **0** | **0** | **0** | **0** | **35** | **102** |
| Evening Peak | | | | | | | | | | | |
| 4:00-4:15pm | # of Gaps | 12 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | | |
| | **# of Vehicles** | **12** | **12** | **6** | **0** | **0** | **0** | **0** | **0** | **30** | |
| 4:15-4:30pm | # of Gaps | 16 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | | |
| | **# of Vehicles** | **16** | **8** | **3** | **0** | **0** | **0** | **0** | **0** | **27** | |
| 4:30-4:45pm | # of Gaps | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | **# of Vehicles** | **11** | **4** | **0** | **0** | **0** | **0** | **0** | **0** | **15** | |
| 4:55-5:00pm | # of Gaps | 13 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | | |
| | **# of Vehicles** | **13** | **6** | **3** | **0** | **0** | **0** | **0** | **0** | **22** | **94** |

**Proposed International Container Transfer Facility - Girden Road, Town of DeWitt, NY**

Speed Study Measurements - Kirkville Road Passing Girden Road

12/4/2018

Distance Travelled (ft) = 285 50 Speed Measurements per Direction Speed Limit 45 mph

| EB Time Seconds | Calculated Speed | EB Time Seconds | Calculated Speed | WB Time Seconds | Calculated Speed | WB Time Seconds | Calculated Speed |
|---|---|---|---|---|---|---|---|
| 4.47 | 43 | 3.88 | 50 | 5.09 | 38 | 4 | 49 |
| 4.38 | 44 | 3.88 | 50 | 4.72 | 41 | 4 | 49 |
| 4.37 | 44 | 3.87 | 50 | 4.69 | 41 | 4 | 49 |
| 4.34 | 45 | 3.87 | 50 | 4.53 | 43 | 3.97 | 49 |
| 4.31 | 45 | 3.85 | 50 | 4.47 | 43 | 3.97 | 49 |
| 4.25 | 46 | 3.85 | 50 | 4.46 | 44 | 3.95 | 49 |
| 4.21 | 46 | 3.82 | 51 | 4.38 | 44 | 3.94 | 49 |
| 4.19 | 46 | 3.82 | 51 | 4.35 | 45 | 3.91 | 50 |
| 4.18 | 46 | 3.82 | 51 | 4.32 | 45 | 3.87 | 50 |
| 4.15 | 47 | 3.78 | 51 | 4.31 | 45 | 3.84 | 51 |
| 4.13 | 47 | 3.78 | 51 | 4.25 | 46 | 3.84 | 51 |
| 4.1 | 47 | 3.76 | 52 | 4.21 | 46 | 3.83 | 51 |
| 4.1 | 47 | 3.76 | 52 | 4.19 | 46 | 3.82 | 51 |
| 4.06 | 48 | 3.72 | 52 | 4.19 | 46 | 3.81 | 51 |
| 4.06 | 48 | 3.71 | 52 | 4.16 | 47 | 3.79 | 51 |
| 4.06 | 48 | 3.69 | 53 | 4.15 | 47 | 3.78 | 51 |
| 4.03 | 48 | 3.69 | 53 | 4.15 | 47 | 3.78 | 51 |
| 4.01 | 48 | 3.69 | 53 | 4.13 | 47 | 3.78 | 51 |
| 3.97 | 49 | 3.68 | 53 | 4.13 | 47 | 3.71 | 52 |
| 3.97 | 49 | 3.62 | 54 | 4.09 | 48 | 3.69 | 53 |
| 3.97 | 49 | 3.6 | 54 | 4.07 | 48 | 3.69 | 53 |
| 3.94 | 49 | 3.59 | 54 | 4.05 | 48 | 3.69 | 53 |
| 3.94 | 49 | 3.59 | 54 | 4.05 | 48 | 3.69 | 53 |
| 3.93 | 49 | 3.56 | 55 | 4.02 | 48 | 3.67 | 53 |
| 3.92 | 50 | 3.41 | 57 | 4.02 | 48 | 3.67 | 53 |

Eastbound

Average Speed = 50 mph

85th Percentile Speed = 53 mph

Westbound

Average Speed = 48 mph

85th Percentile Speed = 51 mph

# Background Traffic Growth Calculations

## Proposed International Container Transfer Facility, Girden Road, Town of DeWitt, NY

Historical Traffic Counts Taken from the NYSDOT 2016 Traffic Volume Report

**Kirkville Road - Between Roberts Street and Manlius Town Line (Girden Road)**

| 2016 (Est) | 2014 | 2011 | 2008 |
|---|---|---|---|
| 15,713 veh | 15,837 veh | 15,732 veh | 14,572 veh |

-0.4% per year | +0.2% per year | +2.7% per year

-0.0% per year

+1.0% per year

**Kirkville Road - Between Manlius Town Line (Girden Road) and Freemont Road**

| 2016 (Est) | 2014 | 2011 | 2008 |
|---|---|---|---|
| 12,865 veh | 12,966 veh | 16,177 veh | 14,427 veh |

-0.0% per year | -6.7% per year | +4.0% per year

-4.1% per year

-1.4% per year

**Use +1.0% annual growth for traffic projections**

## Proposed International Container Transfer Facility - Girden Road, Town of DeWitt, NY
## Accident History Summaries - September 1 2013 Through August 31, 2018

| Accident # | Date | Location | Type | # Cars | Severity | Direction | Conditions | Contributing Factors |
|---|---|---|---|---|---|---|---|---|
| 1 | 10/8/2013 | Kirkville / Girden | Left Turn | 2 | INJ | WB Left / WB | Dry | Failure to Yeild ROW |
| 2 | 7/3/2014 | Kirkville / Girden | Right Angle | 2 | PDO | NB / WB | Wet | Failure to Yeild ROW |
| 3 | 8/22/2014 | Kirkville / Driveway | Right Angle | 2 | INJ | SB Left / WB | Wet | Driver Inattention |
| 4 | 2/16/2015 | Kirkville Road | Rearend | 3 | INJ | EB / EB Stopped / WB | Dry | Unsafe Speed |
| 5 | 2/2/2018 | Kirkville Road | Fixed Object | 1 | PDO | WB / Ditch | Wet | Slippery Pavement |

Kirkville Road @ Girden Road - 2 Accidents
1 - Left Turn Accident
1 - Right Angle Accident

Kirkville Road @ Girden Road Intersection - Evening Peak Hour - 1,659 Vehicles. Assumed PM Peak is 9% of AADT, AADT = 18,433 Vehicles

**Intersection Accident Rates**

$$\frac{\text{\# Accidents X 1,000,000}}{\text{AADT X \# Years X 365 Days}}$$

Time Period = 5 years

**Kirkville Road @ Girden Road - 2 Accidents**
Accident Rate = .059 accidents per million entering vehicles
Statewide average for similar facilities = 0.17 accidents per million entering vehicles (Rural - 3 Legged Intersection - All Lanes)
**Intersection Accident History is Below the Statewide Average**

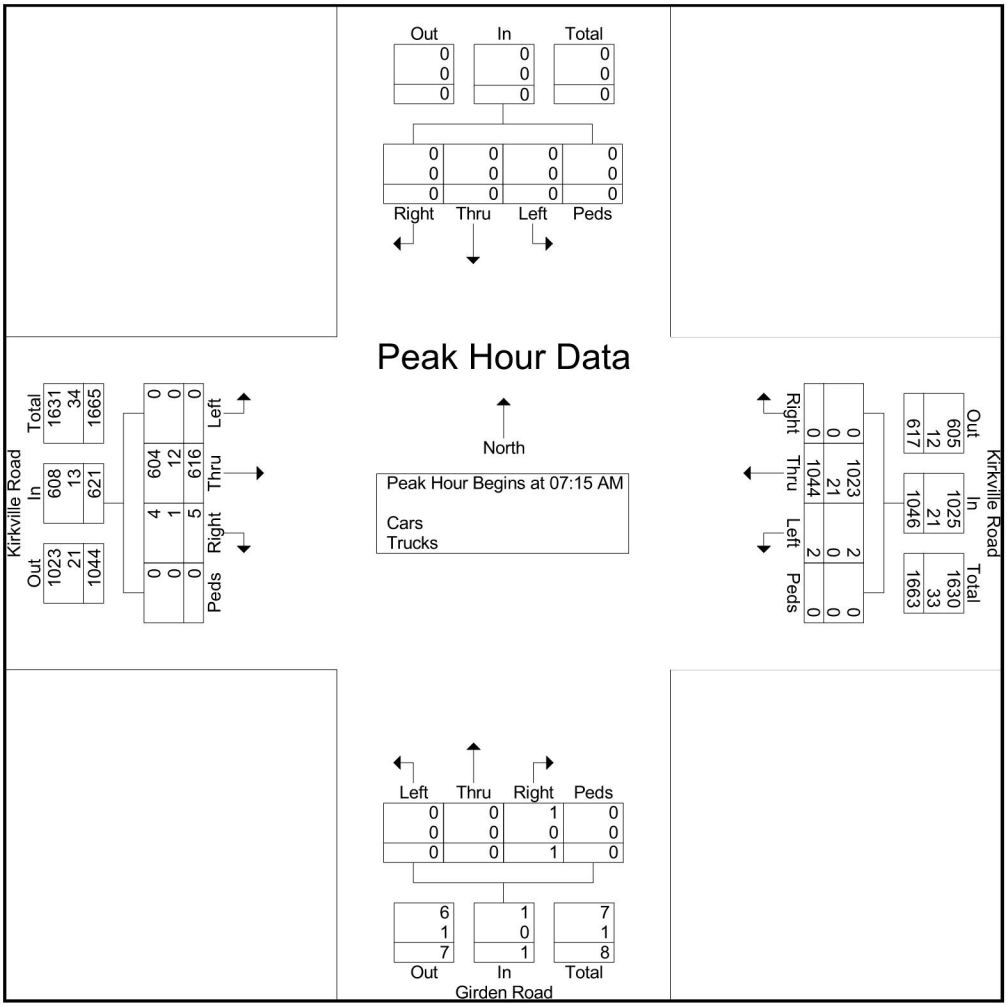
File Name : Kirkville Road @ Girden Road
Site Code : 00000001
Start Date : 12/4/2018
Page No : 1

**Groups Printed- Cars - Trucks**

| | Southbound | | | | Kirkville Road Westbound | | | | Girden Road Northbound | | | | Kirkville Road Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 202 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 102 | 0 | 0 | 306 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 199 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 153 | 0 | 0 | 354 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 286 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 153 | 0 | 0 | 440 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 328 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 198 | 0 | 0 | 528 |
| Total | 0 | 0 | 0 | 0 | 0 | 1015 | 1 | 0 | 0 | 0 | 2 | 0 | 4 | 606 | 0 | 0 | 1628 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 231 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 112 | 0 | 0 | 346 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 147 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 109 | 0 | 0 | 259 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 171 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 153 | 0 | 0 | 328 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 128 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 106 | 0 | 0 | 235 |
| Total | 0 | 0 | 0 | 0 | 0 | 677 | 3 | 0 | 2 | 0 | 2 | 0 | 4 | 480 | 0 | 0 | 1168 |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 166 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 242 | 0 | 0 | 410 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 169 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 246 | 0 | 0 | 416 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 156 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 235 | 0 | 0 | 394 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 133 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 304 | 0 | 0 | 439 |
| Total | 0 | 0 | 0 | 0 | 0 | 624 | 0 | 0 | 0 | 0 | 5 | 0 | 3 | 1027 | 0 | 0 | 1659 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 112 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 292 | 0 | 0 | 404 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 96 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 253 | 0 | 0 | 350 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 117 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 209 | 0 | 0 | 326 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 135 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 185 | 0 | 0 | 320 |
| Total | 0 | 0 | 0 | 0 | 0 | 460 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 939 | 0 | 0 | 1400 |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 2776 | 4 | 0 | 2 | 0 | 9 | 0 | 12 | 3052 | 0 | 0 | 5855 |
| Apprch % | 0 | 0 | 0 | 0 | 0 | 99.9 | 0.1 | 0 | 18.2 | 0 | 81.8 | 0 | 0.4 | 99.6 | 0 | 0 | |
| Total % | 0 | 0 | 0 | 0 | 0 | 47.4 | 0.1 | 0 | 0 | 0 | 0.2 | 0 | 0.2 | 52.1 | 0 | 0 | |
| Cars | 0 | 0 | 0 | 0 | 0 | 2701 | 4 | 0 | 2 | 0 | 7 | 0 | 11 | 2982 | 0 | 0 | 5707 |
| % Cars | 0 | 0 | 0 | 0 | 0 | 97.3 | 100 | 0 | 100 | 0 | 77.8 | 0 | 91.7 | 97.7 | 0 | 0 | 97.5 |
| Trucks | 0 | 0 | 0 | 0 | 0 | 75 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 70 | 0 | 0 | 148 |
| % Trucks | 0 | 0 | 0 | 0 | 0 | 2.7 | 0 | 0 | 0 | 0 | 22.2 | 0 | 8.3 | 2.3 | 0 | 0 | 2.5 |

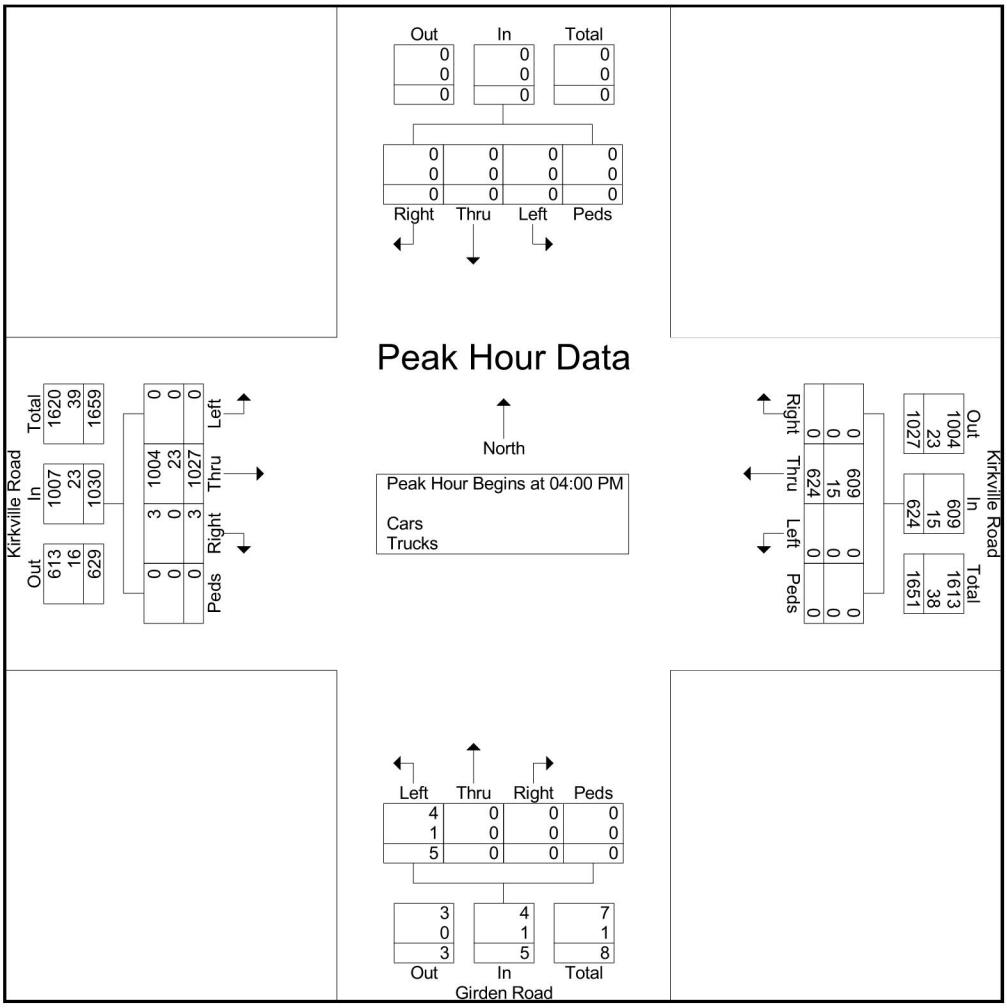
File Name : Kirkville Road @ Girden Road
Site Code : 00000001
Start Date : 12/4/2018
Page No : 2

| | Southbound | | | | | Kirkville Road Westbound | | | | | Girden Road Northbound | | | | | Kirkville Road Eastbound | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 AM | | | | | | | | | | | | | | | | | | | | | |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 199 | 0 | 0 | 199 | 0 | 0 | 0 | 0 | 0 | **2** | 153 | 0 | 0 | 155 | 354 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 286 | 0 | 0 | 286 | 0 | 0 | 0 | 0 | 0 | 1 | 153 | 0 | 0 | 154 | 440 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | **328** | **1** | 0 | **329** | 0 | 0 | 0 | 0 | 0 | 1 | **198** | 0 | 0 | **199** | **528** |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 231 | 1 | 0 | 232 | **1** | 0 | 0 | 0 | **1** | 1 | 112 | 0 | 0 | 113 | 346 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 1044 | 2 | 0 | 1046 | 1 | 0 | 0 | 0 | 1 | 5 | 616 | 0 | 0 | 621 | 1668 |
| % App. Total | 0 | 0 | 0 | 0 | | 0 | 99.8 | 0.2 | 0 | | 100 | 0 | 0 | 0 | | 0.8 | 99.2 | 0 | 0 | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .796 | .500 | .000 | .795 | .250 | .000 | .000 | .000 | .250 | .625 | .778 | .000 | .000 | .780 | .790 |
| Cars | 0 | 0 | 0 | 0 | 0 | 0 | 1023 | | | | | | | | | | | | | | |
| % Cars | 0 | 0 | 0 | 0 | 0 | 0 | 98.0 | 100 | 0 | 98.0 | 100 | 0 | 0 | 0 | 100 | 80.0 | 98.1 | 0 | 0 | 97.9 | 98.0 |
| Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 1 | 12 | 0 | 0 | 13 | 34 |
| % Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 2.0 | 0 | 0 | 2.0 | 0 | 0 | 0 | 0 | 0 | 20.0 | 1.9 | 0 | 0 | 2.1 | 2.0 |



File Name : Kirkville Road @ Girden Road
Site Code : 00000001
Start Date : 12/4/2018
Page No : 3

| | Southbound | | | | | Kirkville Road Westbound | | | | | Girden Road Northbound | | | | | Kirkville Road Eastbound | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 12:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:00 PM | | | | | | | | | | | | | | | | | | | | | |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 166 | 0 | 0 | 166 | 0 | 0 | 1 | 0 | 1 | **1** | 242 | 0 | 0 | 243 | 410 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | **169** | 0 | 0 | **169** | 0 | 0 | 1 | 0 | 1 | 0 | 246 | 0 | 0 | 246 | 416 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 156 | 0 | 0 | 156 | 0 | 0 | **2** | 0 | **2** | 1 | 235 | 0 | 0 | 236 | 394 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 133 | 0 | 0 | 133 | 0 | 0 | 1 | 0 | 1 | 1 | **304** | 0 | 0 | **305** | **439** |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 624 | 0 | 0 | 624 | 0 | 0 | 5 | 0 | 5 | 3 | 1027 | 0 | 0 | 1030 | 1659 |
| % App. Total | 0 | 0 | 0 | 0 | | 0 | 100 | 0 | 0 | | 0 | 0 | 100 | 0 | | 0.3 | 99.7 | 0 | 0 | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .923 | .000 | .000 | .923 | .000 | .000 | .625 | .000 | .625 | .750 | .845 | .000 | .000 | .844 | .945 |
| Cars | 0 | 0 | 0 | 0 | 0 | 0 | 609 | 0 | 0 | 609 | 0 | 0 | 4 | 0 | 4 | 3 | 1004 | | | | |
| % Cars | 0 | 0 | 0 | 0 | 0 | 0 | 97.6 | 0 | 0 | 97.6 | 0 | 0 | 80.0 | 0 | 80.0 | 100 | 97.8 | 0 | 0 | 97.8 | 97.6 |
| Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 15 | 0 | 0 | 1 | 0 | 1 | 0 | 23 | 0 | 0 | 23 | 39 |
| % Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 2.4 | 0 | 0 | 2.4 | 0 | 0 | 20.0 | 0 | 20.0 | 0 | 2.2 | 0 | 0 | 2.2 | 2.4 |



| Intersection | |
|---|---|
| Int Delay, s/veh | 0 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 616 | 5 | 2 | 1044 | 0 | 1 |
| Future Vol, veh/h | 616 | 5 | 2 | 1044 | 0 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 78 | 78 | 80 | 80 | 90 | 90 |
| Heavy Vehicles, % | 2 | 20 | 0 | 2 | 0 | 0 |
| Mvmt Flow | 790 | 6 | 3 | 1305 | 0 | 1 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | 796 | 0 | 2104 | 793 |
| Stage 1 | - | - | - | - | 793 | - |
| Stage 2 | - | - | - | - | 1311 | - |
| Critical Hdwy | - | - | 4.1 | - | 6.4 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.4 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.4 | - |
| Follow-up Hdwy | - | - | 2.2 | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | - | - | 835 | - | 57 | 392 |
| Stage 1 | - | - | - | - | 449 | - |
| Stage 2 | - | - | - | - | 255 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | 835 | - | 56 | 392 |
| Mov Cap-2 Maneuver | - | - | - | - | 56 | - |
| Stage 1 | - | - | - | - | 449 | - |
| Stage 2 | - | - | - | - | 252 | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s | 0 | 0 | 14.2 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | 392 | - | - | 835 | - |
| HCM Lane V/C Ratio | 0.003 | - | - | 0.003 | - |
| HCM Control Delay (s) | 14.2 | - | - | 9.3 | 0 |
| HCM Lane LOS | B | - | - | A | A |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.2 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 1027 | 3 | 0 | 624 | 5 | 0 |
| Future Vol, veh/h | 1027 | 3 | 0 | 624 | 5 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 84 | 84 | 92 | 92 | 90 | 90 |
| Heavy Vehicles, % | 2 | 0 | 0 | 2 | 20 | 0 |
| Mvmt Flow | 1223 | 4 | 0 | 678 | 6 | 0 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | 1227 | 0 | 1903 | 1225 |
| Stage 1 | - | - | - | - | 1225 | - |
| Stage 2 | - | - | - | - | 678 | - |
| Critical Hdwy | - | - | 4.1 | - | 6.6 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.6 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.6 | - |
| Follow-up Hdwy | - | - | 2.2 | - | 3.68 | 3.3 |
| Pot Cap-1 Maneuver | - | - | 575 | - | 68 | 220 |
| Stage 1 | - | - | - | - | 255 | - |
| Stage 2 | - | - | - | - | 472 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | 575 | - | 68 | 220 |
| Mov Cap-2 Maneuver | - | - | - | - | 68 | - |
| Stage 1 | - | - | - | - | 255 | - |
| Stage 2 | - | - | - | - | 472 | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s | 0 | 0 | 62.6 |
| HCM LOS | | | F |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | 68 | - | - | 575 | - |
| HCM Lane V/C Ratio | 0.082 | - | - | - | - |
| HCM Control Delay (s) | 62.6 | - | - | 0 | - |
| HCM Lane LOS | F | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.3 | - | - | 0 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 647 | 5 | 2 | 1096 | 0 | 1 |
| Future Vol, veh/h | 647 | 5 | 2 | 1096 | 0 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 78 | 78 | 80 | 80 | 90 | 90 |
| Heavy Vehicles, % | 2 | 20 | 0 | 2 | 0 | 0 |
| Mvmt Flow | 829 | 6 | 3 | 1370 | 0 | 1 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | 835 | 0 | 2208 | 832 |
| Stage 1 | - | - | - | - | 832 | - |
| Stage 2 | - | - | - | - | 1376 | - |
| Critical Hdwy | - | - | 4.1 | - | 6.4 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.4 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.4 | - |
| Follow-up Hdwy | - | - | 2.2 | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | - | - | 807 | - | 49 | 372 |
| Stage 1 | - | - | - | - | 431 | - |
| Stage 2 | - | - | - | - | 237 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | 807 | - | 48 | 372 |
| Mov Cap-2 Maneuver | - | - | - | - | 48 | - |
| Stage 1 | - | - | - | - | 431 | - |
| Stage 2 | - | - | - | - | 233 | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s | 0 | 0 | 14.7 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | 372 | - | - | 807 | - |
| HCM Lane V/C Ratio | 0.003 | - | - | 0.003 | - |
| HCM Control Delay (s) | 14.7 | - | - | 9.5 | 0 |
| HCM Lane LOS | B | - | - | A | A |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 0.2 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 1078 | 3 | 0 | 655 | 5 | 0 |
| Future Vol, veh/h | 1078 | 3 | 0 | 655 | 5 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 84 | 84 | 92 | 92 | 90 | 90 |
| Heavy Vehicles, % | 2 | 0 | 0 | 2 | 20 | 0 |
| Mvmt Flow | 1283 | 4 | 0 | 712 | 6 | 0 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | 1287 | 0 | 1997 | 1285 |
| Stage 1 | - | - | - | - | 1285 | - |
| Stage 2 | - | - | - | - | 712 | - |
| Critical Hdwy | - | - | 4.1 | - | 6.6 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.6 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.6 | - |
| Follow-up Hdwy | - | - | 2.2 | - | 3.68 | 3.3 |
| Pot Cap-1 Maneuver | - | - | 546 | - | 59 | 203 |
| Stage 1 | - | - | - | - | 238 | - |
| Stage 2 | - | - | - | - | 455 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | 546 | - | 59 | 203 |
| Mov Cap-2 Maneuver | - | - | - | - | 59 | - |
| Stage 1 | - | - | - | - | 238 | - |
| Stage 2 | - | - | - | - | 455 | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s | 0 | 0 | 72.3 |
| HCM LOS | | | F |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | 59 | - | - | 546 | - |
| HCM Lane V/C Ratio | 0.094 | - | - | - | - |
| HCM Control Delay (s) | 72.3 | - | - | 0 | - |
| HCM Lane LOS | F | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.3 | - | - | 0 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.3 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 647 | 16 | 8 | 1096 | 11 | 7 |
| Future Vol, veh/h | 647 | 16 | 8 | 1096 | 11 | 7 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 78 | 78 | 80 | 80 | 90 | 90 |
| Heavy Vehicles, % | 2 | 50 | 0 | 2 | 64 | 0 |
| Mvmt Flow | 829 | 21 | 10 | 1370 | 12 | 8 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | 850 | 0 | 2230 | 840 |
| Stage 1 | - | - | - | - | 840 | - |
| Stage 2 | - | - | - | - | 1390 | - |
| Critical Hdwy | - | - | 4.1 | - | 7.04 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | 6.04 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 6.04 | - |
| Follow-up Hdwy | - | - | 2.2 | - | 4.076 | 3.3 |
| Pot Cap-1 Maneuver | - | - | 797 | - | 31 | 368 |
| Stage 1 | - | - | - | - | 334 | - |
| Stage 2 | - | - | - | - | 170 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | 797 | - | 29 | 368 |
| Mov Cap-2 Maneuver | - | - | - | - | 29 | - |
| Stage 1 | - | - | - | - | 334 | - |
| Stage 2 | - | - | - | - | 161 | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s | 0 | 0.1 | 137.8 |
| HCM LOS | | | F |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | 45 | - | - | 797 | - |
| HCM Lane V/C Ratio | 0.444 | - | - | 0.013 | - |
| HCM Control Delay (s) | 137.8 | - | - | 9.6 | 0 |
| HCM Lane LOS | F | - | - | A | A |
| HCM 95th %tile Q(veh) | 1.6 | - | - | 0 | - |

| Intersection | |
|---|---|
| Int Delay, s/veh | 1.3 |

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 1078 | 14 | 6 | 655 | 16 | 6 |
| Future Vol, veh/h | 1078 | 14 | 6 | 655 | 16 | 6 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 84 | 84 | 92 | 92 | 90 | 90 |
| Heavy Vehicles, % | 2 | 50 | 0 | 2 | 50 | 0 |
| Mvmt Flow | 1283 | 17 | 7 | 712 | 18 | 7 |

| Major/Minor | Major1 | | Major2 | | Minor1 | |
|---|---|---|---|---|---|---|
| Conflicting Flow All | 0 | 0 | 1300 | 0 | 2018 | 1292 |
| Stage 1 | - | - | - | - | 1292 | - |
| Stage 2 | - | - | - | - | 726 | - |
| Critical Hdwy | - | - | 4.1 | - | 6.9 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.9 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.9 | - |
| Follow-up Hdwy | - | - | 2.2 | - | 3.95 | 3.3 |
| Pot Cap-1 Maneuver | - | - | 540 | - | 47 | 201 |
| Stage 1 | - | - | - | - | 205 | - |
| Stage 2 | - | - | - | - | 402 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | 540 | - | 46 | 201 |
| Mov Cap-2 Maneuver | - | - | - | - | 46 | - |
| Stage 1 | - | - | - | - | 205 | - |
| Stage 2 | - | - | - | - | 394 | - |

| Approach | EB | WB | NB |
|---|---|---|---|
| HCM Control Delay, s | 0 | 0.1 | 106.4 |
| HCM LOS | | | F |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---|---|---|---|---|---|
| Capacity (veh/h) | 58 | - | - | 540 | - |
| HCM Lane V/C Ratio | 0.421 | - | - | 0.012 | - |
| HCM Control Delay (s) | 106.4 | - | - | 11.7 | 0 |
| HCM Lane LOS | F | - | - | B | A |
| HCM 95th %tile Q(veh) | 1.6 | - | - | 0 | - |

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APPENDIX E
NRCS SOIL MAPS

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Hydrologic Soil Group—Onondaga County, New York
(CNYIP Soil Map)

Map Scale: 1:10,300 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 150 300 600 900

Feet: 0 500 1000 2000 3000

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

## MAP LEGEND

**Area of Interest (AOI)**

Area of Interest (AOI)

**Soils**

**Soil Rating Polygons**

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

**Soil Rating Lines**

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

**Soil Rating Points**

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

**Water Features**

Streams and Canals

**Transportation**

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

**Background**

Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

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: Onondaga County, New York
Survey Area Data: Version 13, Sep 3, 2018

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

Date(s) aerial images were photographed: Dec 31, 2009—Sep 23, 2017

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.

# Hydrologic Soil Group

| Map unit symbol | Map unit name | Rating | Acres in AOI | Percent of AOI |
|---|---|---|---|---|
| GaA | Galen very fine sandy loam, 0 to 2 percent slopes | A/D | 8.0 | 1.8% |
| GaB | Galen very fine sandy loam, 2 to 6 percent slopes | A/D | 7.0 | 1.6% |
| LbC2 | Lairdsville silty clay loam, 6 to 12 percent slopes, eroded | D | 9.2 | 2.1% |
| Lk | Lakemont silty clay loam, 0 to 3 percent slopes | D | 21.6 | 4.9% |
| Lm | Lamson very fine sandy loam | A/D | 15.2 | 3.5% |
| LvB | Lockport and Brockport silty clay loams, 0 to 6 percent slopes | C/D | 65.9 | 15.0% |
| MtA | Minoa fine sandy loam, 0 to 2 percent slopes | B/D | 29.8 | 6.8% |
| Na | Naumburg loamy fine sand | A/D | 5.3 | 1.2% |
| NgA | Niagara silt loam, 0 to 4 percent slopes | C/D | 99.1 | 22.6% |
| OgB | Ontario loam, 3 to 8 percent slopes | B | 0.1 | 0.0% |
| PpA | Phelps gravelly loam, 0 to 3 percent slopes | B/D | 4.9 | 1.1% |
| PpB | Phelps gravelly loam, 3 to 8 percent slopes | B/D | 15.6 | 3.6% |
| Te | Teel silt loam | B/D | 4.1 | 0.9% |
| Ub | Urban land | | 98.3 | 22.4% |
| Wn | Wayland soils complex, 0 to 3 percent slopes, frequently flooded | B/D | 53.5 | 12.2% |
| WwB | Williamson silt loam, 2 to 6 percent slopes | D | 1.2 | 0.3% |
| **Totals for Area of Interest** | | | **438.9** | **100.0%** |

## Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

## Rating Options

*Aggregation Method:* Dominant Condition

*Component Percent Cutoff: None Specified*

*Tie-break Rule:* Higher

APPENDIX F
FEMA FLOODPLAIN MAP

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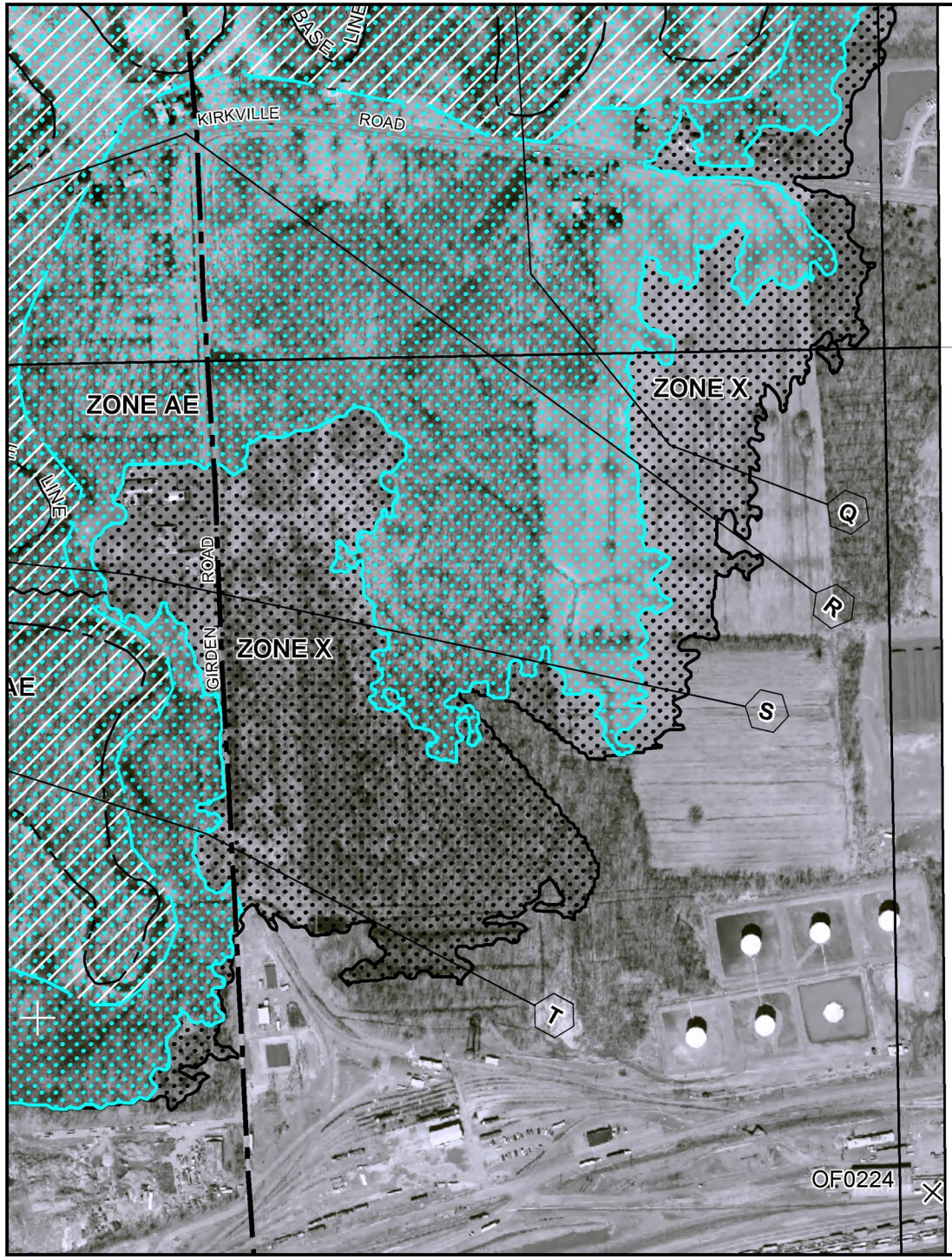


MAP SCALE 1" = 500'

250 0 500 1000 FEET

METERS

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0233F

# FIRM

## FLOOD INSURANCE RATE MAP

## ONONDAGA COUNTY, NEW YORK

(ALL JURISDICTIONS)

**PANEL 233 OF 520**

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

| COMMUNITY | NUMBER | PANEL | SUFFIX |
|---|---|---|---|
| DEWITT, TOWN OF | 360973 | 0233 | F |
| EAST SYRACUSE, VILLAGE OF | 360574 | 0233 | F |
| MANLIUS, TOWN OF | 360584 | 0233 | F |

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

**MAP NUMBER**
**36067C0233F**

**EFFECTIVE DATE**
**NOVEMBER 4, 2016**

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

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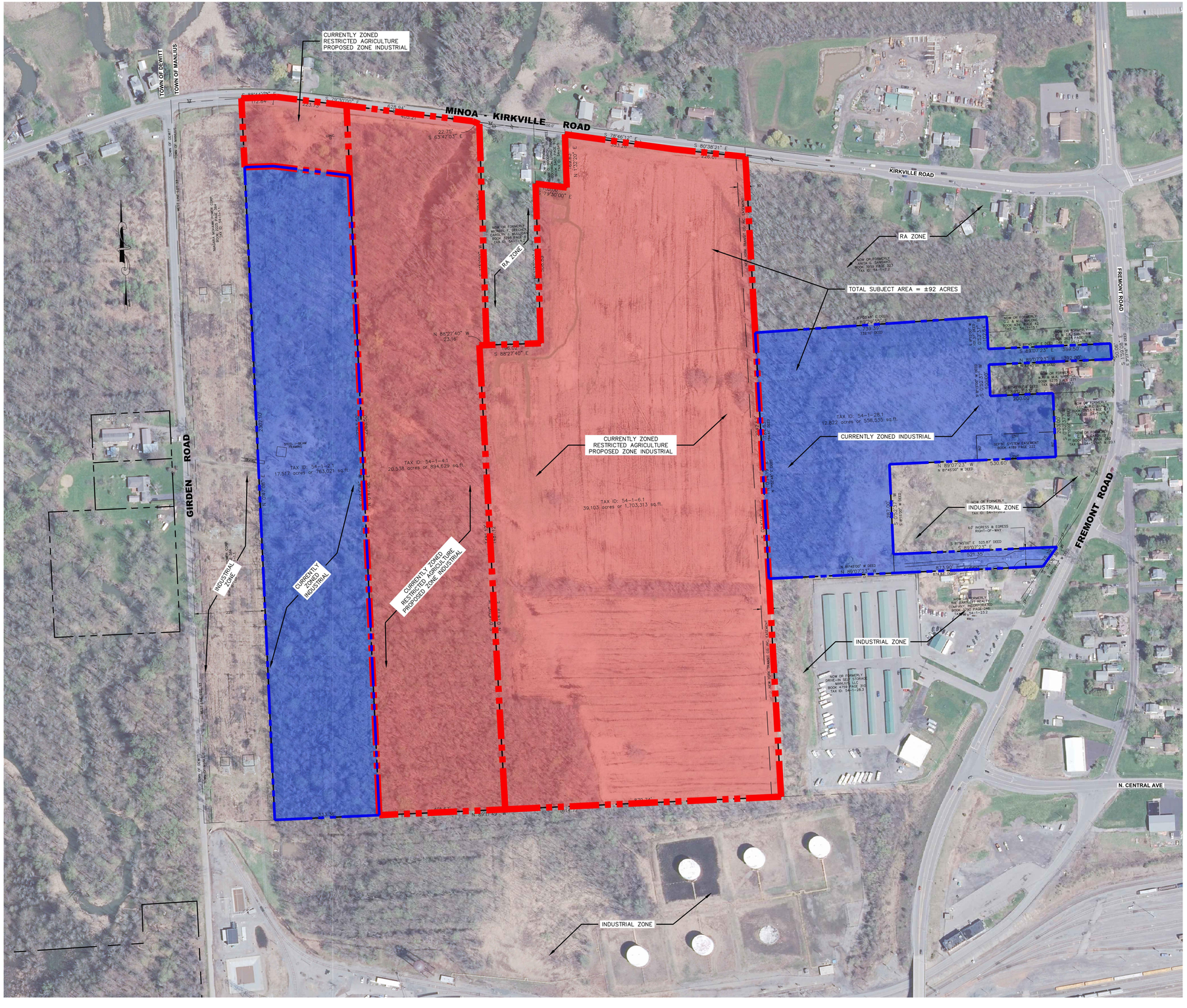


LEGEND

PROPERTY LINE

ZONED RESTRICTED AGRICULTURAL (RA), PROPOSED INDUSTRIAL ZONE

ZONED INDUSTRIAL (I)

**PRELIMINARY**
**FOR PLANNING PURPOSES ONLY, NOT FOR CONSTRUCTION.**

GRAPHIC SCALE
0 150' 300'
(IN FEET)
1 inch = 150 ft

1 SK-1 PROPOSED ZONE CHANGE PLAN
SCALE: 1"=150'

PROJECT TITLE:
**PROPOSED CPO FACILITY GIRDEN ROAD**
TOWN OF MANLIUS — ONONDAGA COUNTY, NY

PREPARED FOR:
THIRD GENERATION INTERMODAL (3GI)
360 ERIE BOULEVARD EAST
SYRACUSE, NY 13202

SHEET TITLE:
**CNYIP ZONE CHANGE PLAN**

| NO. | REVISION/ISSUE | DATE |
|---|---|---|

PREPARED BY:
NAPIERALA CONSULTING
PROFESSIONAL ENGINEER, P.C.
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MANLIUS, NEW YORK 13104
email: MNAP@NAPCON.COM
PH: (315) 682-5580 FAX: (315) 682-5544

PROJECT NO. 17-1588
DATE 18 DEC 2019
SCALE 1"=150'

PLAN SEAL BY:
MATTHEW R. NAPIERALA, P.E.
NYS REGISTRATION # 069153

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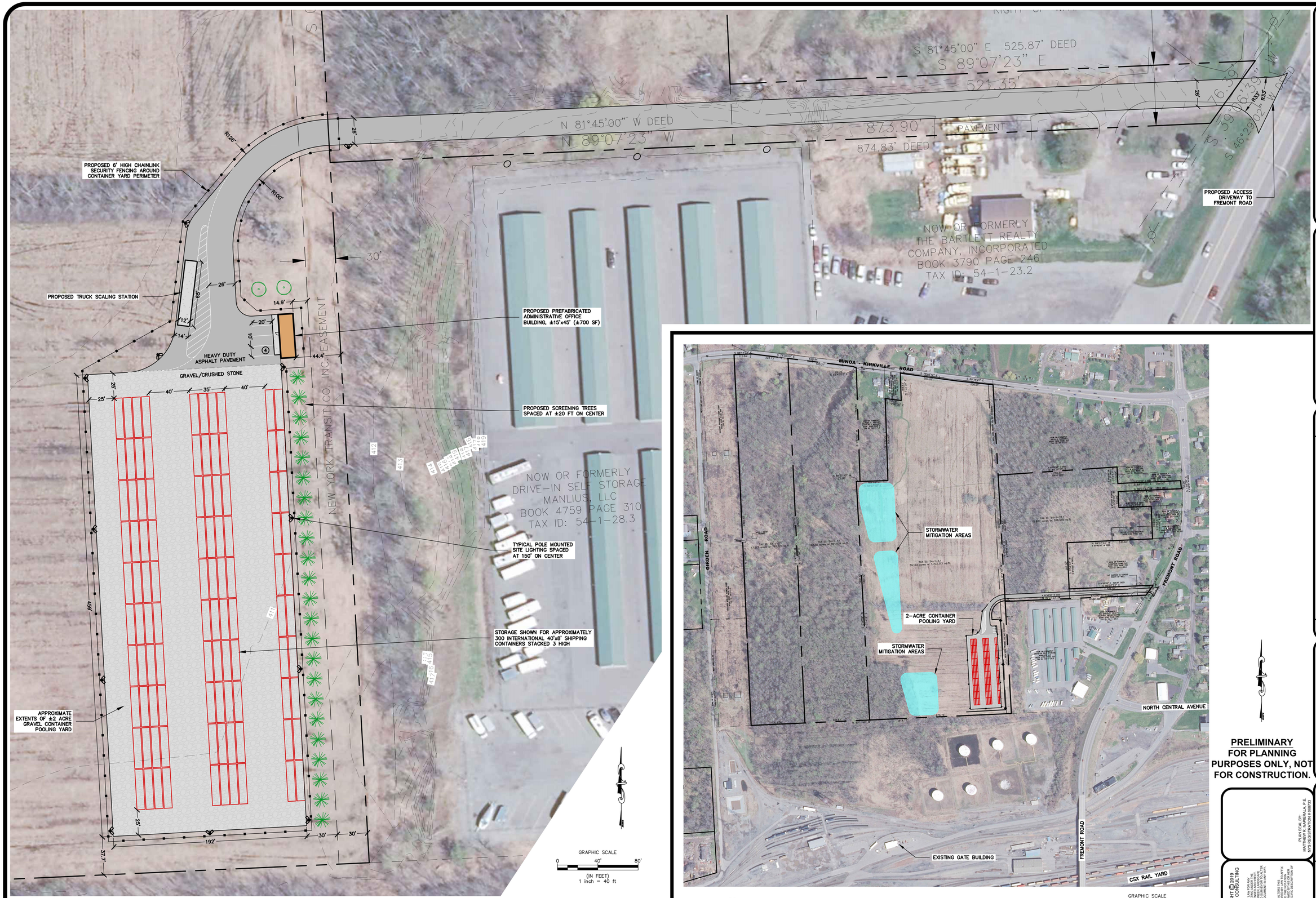
SHEET **SK-1**




1 SK-2 LAYOUT PLAN - CONTAINER POOLING YARD
SCALE: 1"=40'




2 SK-2 OVERALL LAYOUT PLAN
SCALE: 1"=250'

**PRELIMINARY FOR PLANNING PURPOSES ONLY, NOT FOR CONSTRUCTION.**

PROJECT TITLE:
**PROPOSED CPO FACILITY GIRDEN ROAD**
TOWN OF MANLIUS — ONONDAGA COUNTY, NY

PREPARED FOR:
THIRD GENERATION INTERMODAL (3GI)
360 ERIE BOULEVARD EAST
SYRACUSE, NY 13202

SHEET TITLE:
**LAYOUT PLAN**

| NO. | REVISION/ISSUE | DATE |
|---|---|---|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MATTHEW R. NAPIERALA, P.E.
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PROJECT NO. 17-1588
DATE 18 DEC 2019
SCALE AS SHOWN
SHEET SK-2


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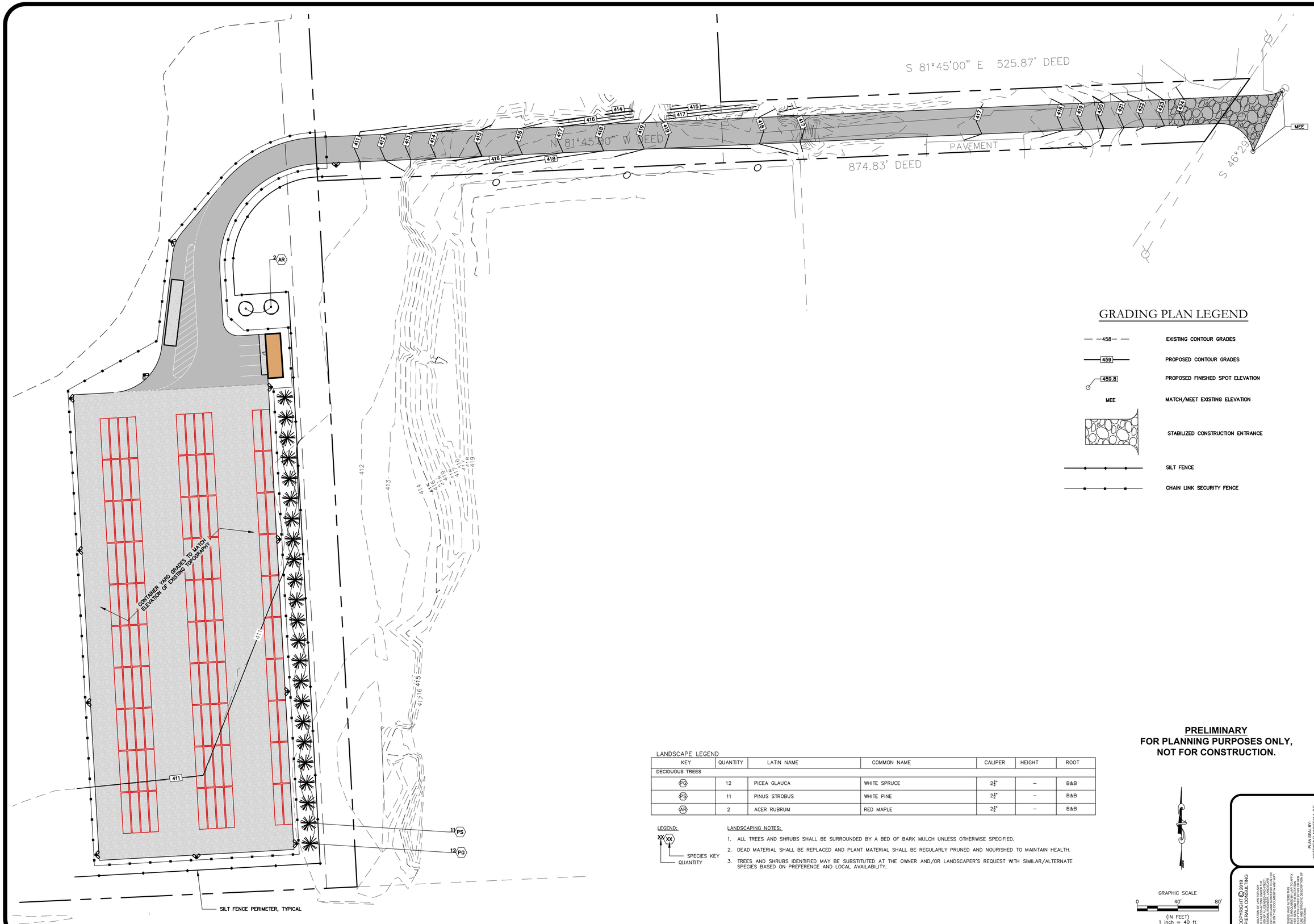


LANDSCAPE LEGEND

| KEY | QUANTITY | LATIN NAME | COMMON NAME | CALIPER | HEIGHT | ROOT |
|---|---|---|---|---|---|---|
| DECIDUOUS TREES | | | | | | |
| PG | 12 | PICEA GLAUCA | WHITE SPRUCE | 2½" | – | B&B |
| PS | 11 | PINUS STROBUS | WHITE PINE | 2½" | – | B&B |
| AR | 2 | ACER RUBRUM | RED MAPLE | 2½" | – | B&B |

LEGEND:

XX XX — SPECIES KEY; QUANTITY

LANDSCAPING NOTES:

1. ALL TREES AND SHRUBS SHALL BE SURROUNDED BY A BED OF BARK MULCH UNLESS OTHERWISE SPECIFIED.
2. DEAD MATERIAL SHALL BE REPLACED AND PLANT MATERIAL SHALL BE REGULARLY PRUNED AND NOURISHED TO MAINTAIN HEALTH.
3. TREES AND SHRUBS IDENTIFIED MAY BE SUBSTITUTED AT THE OWNER AND/OR LANDSCAPER'S REQUEST WITH SIMILAR/ALTERNATE SPECIES BASED ON PREFERENCE AND LOCAL AVAILABILITY.

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PROJECT TITLE:
**PROPOSED CPO FACILITY**
**GIRDEN ROAD**
TOWN OF MANLIUS — ONONDAGA COUNTY, NY

PREPARED FOR:
THIRD GENERATION INTERMODAL (3GI)
360 ERIE BOULEVARD EAST
SYRACUSE, NY 13202

SHEET TITLE:
**GRADING AND LANDSCAPING PLAN**

| NO. | REVISION/ISSUE | DATE |
|---|---|---|


PREPARED BY:
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PLAN SEAL BY:
MATTHEW R. NAPIERALA, P.E.
NYS REGISTRATION # 069752

PROJECT NO. 17-1588
DATE 18 DEC 2019
SCALE 1" = 40'
SHEET SK-3


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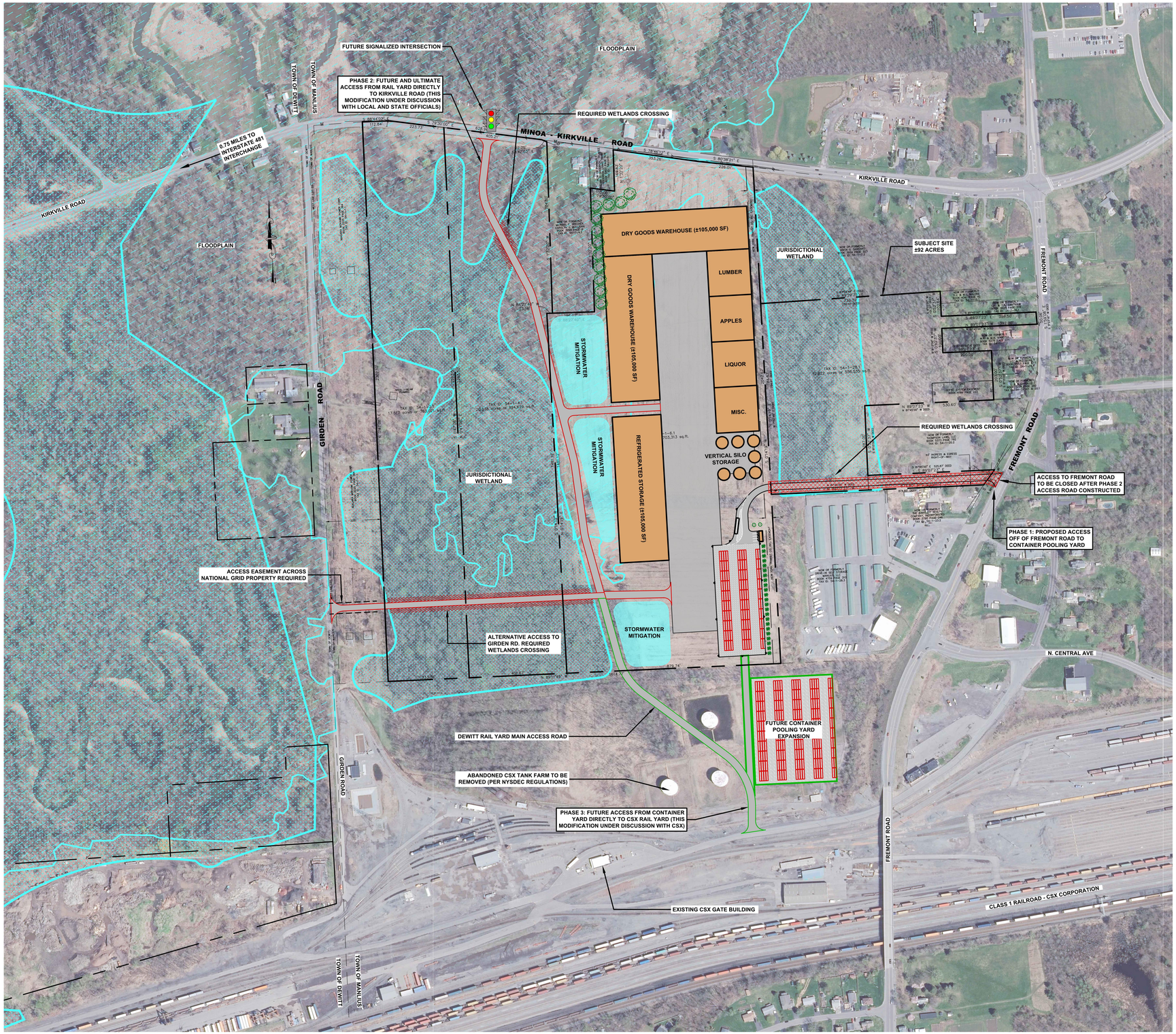


1 SK-4 CNYIP FUTURE CONCEPTUAL MASTER PLAN (LATER PHASE)
SCALE: 1"=200'

**LEGEND**

- PROPERTY LINE
- PROPOSED WAREHOUSE BUILDING
- WETLAND AREA AND WETLAND BUFFER
- FEMA 100-YEAR FLOODPLAIN

**PHASE 1**
ACCESS OFF FREMONT ROAD & 2-ACRE GRAVEL CONTAINER YARD

**PHASE 2**
ACCESS OFF KIRKVILLE ROAD

**PHASE 3**
ACCESS THROUGH CSX TRAIN YARD

**PRELIMINARY**
**FOR PLANNING PURPOSES ONLY, NOT FOR CONSTRUCTION.**

GRAPHIC SCALE
0 200' 400'
(IN FEET)
1 inch = 200 ft

PROJECT TITLE:
# PROPOSED CPO FACILITY GIRDEN ROAD
TOWN OF MANLIUS — ONONDAGA COUNTY, NY

PREPARED FOR:
THIRD GENERATION INTERMODAL (3GI)
360 ERIE BOULEVARD EAST
SYRACUSE, NY 13202

SHEET TITLE:
## FUTURE POTENTIAL INLAND PORT WAREHOUSE FACILITY

| NO. | REVISION/ISSUE | DATE |
|---|---|---|

PREPARED BY:
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MANLIUS, NEW YORK 13104
email: MNAP@NAPCON.COM
PH: (315) 682-5580 FAX: (315) 682-5544

PROJECT NO. 17-1588
DATE 18 DEC 2019
SCALE 1"=200'

PLAN SEAL BY:
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NYS REGISTRATION # 069153

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SHEET
# SK-4