Lockport-Batavia Line #112

Rebuild Project

Appendix G

Stormwater Pollution Prevention Plan

Part 7 of 8

Table 2
Stream Delineation Summary

Stream ID	Map Sheet #	Associated Data Point #	Associated Photo Log #	Stream Name	Tributary of	Flow Regime	Flow Direction	Presumed Federal / State Jurisdiction[2]	NYSDEC Classification[3,5,6,7]	NYSDEC Standard Designation[4,6]	Latitude	Longitude	Stream Width (Average OHWM, Ft.)	Stream Width (Average Top of Bank, Ft.)	Stream Reach Length (Within Study Limits, Linear Ft.)
001*	2 thru 3	DP-005	N/A	NYS Barge Canal (Erie Canal) (Portion 1)	Lake Erie	Perennial	East	Federal & State*	C	ND	43.147687	-78.716270	84	84	418
002	10	DP-018	36, 37, 38	Unnamed Tributary to Tonawanda Creek	NYS Barge Canal (Erie Canal)	Perennial	South	Federal & State	B	ND	43.142075	-78.678417	20	20	340
003	12	DP-022	46, 47, 48	Unnamed Tributary to Mud Creek	Tonawanda Creek	Intermittent	West	Federal	D	ND	43.141585	-78.666715	2	3	300
004	16	DP-023	49, 50, 51	Unnamed Tributary to Mud Creek	Tonawanda Creek	Intermittent	East	Federal	D	ND	43.140759	-78.649781	5	9	304
005	18 thru 19	DP-028	62, 63, 64	Unnamed Tributary to Mud Creek	Tonawanda Creek	Intermittent	West	Federal	D	ND	43.140579	-78.638010	4	6	1,240
006	22	DP-036	80, 81, 82	Unnamed Tributary to Mud Creek	Tonawanda Creek	Intermittent	North	Federal	D	ND	43.140302	-78.622527	4	6	197
007	29	DP-056	124, 125, 126	Unnamed Tributary to Mud Creek	Tonawanda Creek	Intermittent	North	Federal	C	ND	43.140041	-78.588483	4	10	296
008	36	DP-063	143, 144, 145	Unnamed Tributary to Mud Creek	Tonawanda Creek	Intermittent	South	Federal	C	ND	43.139888	-78.554292	3	6	155
009**	62	DP-084	196, 197, 198	Unnamed Tributary to Mud Creek	Tonawanda Creek	Perennial	West	Federal & State**	C	ND	43.118740	-78.452938	10	15	117
010	54	DP-094	215, 216, 217	Mud Creek and Tributaries	Tonawanda Creek	Perennial	East	Federal	C	ND	43.136002	-78.480426	20	25	208
														Total:	**3,575**

Notes:

1. A field delineation was performed by Fisher Associates between August 6 and October 2, 2019; June 16, 2020; and November 12 and 13, 2020
2. In accordance with the Navigable Waters Protection Rule, streams/tributaries that are perennial and/or intermittent and contribute surface flow to WOTUS are federally jurisdictional by the EPA and USACE (see Section 3.0 for more information).
3. NYSDEC Classification Designations:
   - AA or A: waters used as a source of drinking water
   - B: waters with best usage for swimming and other contact recreation, but not for drinking water
   - C: waters supporting fisheries and suitable for non-contact activities
   - D: other waters, the lowest classification standard
4. NYSDEC Standard Designations:
   - ND: no assigned designation
   - T: may support a trout population
   - TS: may support trout spawning
5. Waters with classifications of A, B, and C may, but will not always have an associated Standard Designation relative to trout use.
6. Streams with a classification of AA, A, B, or with a classification of C with a standard of "T" or "TS" are referred to a "Protected Streams" and are subject to the stream protection provisions of the New York State Protection of Waters regulations.
7. Streams that do not appear on the NYSDEC mapping are assigned to Class D, with the exception of any "continuous flowing natural stream" which is assigned the same classification as the water to which it is a tributary. Due to errors in the available electronic mapping, Fisher recommends coordination with NYSDEC to verify stream designations of any streams that may be impacted by the Project.

* Stream 001 is the New York State Barge Canal also known as the Erie Canal. The New York State Canal Corportation is governing body over the canal.

** Stream 009 is located within the Tonawanda Wildlife Management Area.

Table 3:
Ditch Delineation Summary

Ditch ID	Map Sheet #	Associated Data Point #	Associated Photolog #	Flow Regime	Federal / State Jurisdiction	Latitude	Longitude	Ditch Width (Average OHWM, Ft.)	Ditch Width (Average Top of Bank, Ft.)	Ditch Reach Length (Within Project Study Limits, Linear Ft.)
001	9	DP-015	27 thru 29	Intermittent	---	43.142050	-78.683492	2	2	42
								5	5	131
002	9	DP-016	30 thru 32	Ephemeral	---	43.142004	-78.679707	2	3	160
003	9	DP-017	33 thru 35	Ephemeral	---	43.142009	-78.679512	2	3	173
004	15	DP-019	39 thru 41	Ephemeral	---	43.140827	-78.653565	3	4	168
005	15	DP-024	52 thru 54	Ephemeral	---	43.140819	-78.653383	1	4	165
006	20	DP-025	55 thru 57	Ephemeral	---	43.140523	-78.629180	1	10	107
007	20	DP-033	73 thru 75	Ephemeral	---	43.140538	-78.629017	2	5	119
008	23	DP-037	83 thru 85	Ephemeral	---	43.140140	-78.614764	2	6	159
009	23	DP-042	94 thru 96	Ephemeral	---	43.140418	-78.614718	2	6	173
010	24	DP-043	97 thru 99	Intermittent	Federal	43.140206	-78.609395	3	8	197
011	27	DP-050	110 thru 112	Ephemeral	---	43.140263	-78.596273	2	6	150
012	32	DP-053	117 thru 119	Ephemeral	---	43.140013	-78.573944	2	6	155
013	27	DP-057	127 thru 129	Ephemeral	---	43.139966	-78.596112	3	5	168
014	32	DP-058	130 thru 132	Ephemeral	---	43.140057	-78.573731	3	5	169
015	35	DP-059	133 thru 135	Ephemeral	---	43.139674	-78.561544	2	4	145
016	35	DP-060	136 thru 138	Intermittent	---	43.139692	-78.561408	3	5	141
017	40	DP-066	150 thru 152	Ephemeral	---	43.140383	-78.539286	2	3	159
018	40	DP-067	153 thru 155	Intermittent	---	43.140691	-78.539061	3	5	125
019	88	DP-070	160 thru 162	Intermittent	---	43.081652	-78.391301	2	6	163
020	43	DP-075	171 thru 173	Ephemeral	---	43.142556	-78.524528	1	3	163
021	43	DP-078	182 thru 184	Ephemeral	---	43.142563	-78.524378	1	3	171
022	45	DP-079	185 thru 187	Ephemeral	---	43.144270	-78.514723	1	3	214
023	87	DP-092	209 thru 211	Intermittent	---	43.074244	-78.379761	1	5	225
024	51 & 52	DP-093	212 thru 214	Ephemeral	---	43.140726	-78.488008	1	4	184
025	93	DP-096	220 thru 222	Ephemeral	---	43.073207	-78.362096	.5	2	717
									Totals:	**4,643**

Notes:

1. A field delineation was performed by Fisher Associates between August 6 and October 2, 2019; June 16, 2020; and November 12 and 13, 2020.
2. Jurisdiction classifications provided represent the professional opinion of Fisher Associates. For approval of these classifications, a request for Jurisdictional Determination should be made to the US Army Corps of Engineers.
3. In accordance with the Navigable Waters Protection Rule, ditches/tributaries that are perennial and/or intermittent and contribute surface flow to WOTUS are federally jurisdictional by the EPA and USACE (see Section 3.0 for more information).
4. Ditches are not regulated by the New York State Department of Environmental Conservation unless they are determined to be altered natural tributaries possessing a state-regulated classification and/or standard designation.
5. Square feet and acreage were calculated in ArcGIS and Excel with more significant figures than are shown. Square footage is displayed as the nearest whole number, and acreage is displayed as either the nearest tenth or significant figure. Values may not entirely add up based on what is displayed because the total sums are based on the full value of each cell.

APPENDIX A
WETLAND DETERMINATION DATA FORMS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara County Sampling Date: 8/6/19

Applicant/Owner: National Grid State: NY Sampling Point: DP-001

Investigator(s): James Ireland Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 3%

Subregion (LRR or MLRA): LRR-L Lat: 43.147779 Long: -78.717368 Datum: NAD '83

Soil Map Unit Name: Ovid Silt Loam, limestone substratum, 0 to 3 percent slopes NWI classification: Not classified

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

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

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

Hydrophytic Vegetation Present?	Yes ____ No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____ No X	
Wetland Hydrology Present?	Yes ____ No X	If yes, optional Wetland Site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.)

Upland Data Point for ~~Wetland~~ Wetland 001.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- N/A Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No ✓ Depth (inches):

Water Table Present? Yes ____ No X Depth (inches):

Saturation Present? (includes capillary fringe) Yes ____ No X Depth (inches):

Wetland Hydrology Present? Yes ____ No X

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP- 001

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1. Elaeagnus umbellata	5%	N	NL
2.			
3.			
4.			
5.			
6.			
7.			
	5% = Total Cover		
Herb Stratum (Plot size: 5')			
1. Centaurea stoebe	70%	N	NL
2. Cirsium pervense	20%	Y	FACU
3. Solidago canadensis	20%	Y	FACU
4. Daucus carota	15%	Y	UPL
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	55 ~~125~~ = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (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:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ___ No Y

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

Autumn Olive & Spotted Knapweed do not have an indicator status so they were not included in total percent cover.

SOIL

Sampling Point: DP-00 i

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-7	10YR4/3	100%	-	-	-	-	S:L	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: Rock

Depth (inches): 7"

Hydric Soil Present? Yes ____ No X

Remarks:

Dug Multiple Soil pits and couldn't get past 7". Hit Rock every time.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara County Sampling Date: 8/6/19

Applicant/Owner: National Grid State: NY Sampling Point: DP-002

Investigator(s): James Ireland Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): Concave Slope (%): 1%

Subregion (LRR or MLRA): LRR-L Lat: 43.147713 Long: -78.717255 Datum: NAD '83

Soil Map Unit Name: OvA- Ovid silt loam, limestone substratum, 0 to 3 percent slopes NWI classification: Not classified

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

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

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

Hydrophytic Vegetation Present?	Yes X No	**Is the Sampled Area within a Wetland?**	**Yes X No**
Hydric Soil Present?	Yes X No		
Wetland Hydrology Present?	Yes X No	If yes, optional Wetland Site ID: WL 001	

Remarks: (Explain alternative procedures here or in a separate report.)

Datapoint ~~DP~~ for Wetland 001

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- MM Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes X	No ____	Depth (inches): 2"
Water Table Present?	Yes X	No ____	Depth (inches): 0"
Saturation Present? (includes capillary fringe)	Yes X	No ____	Depth (inches): 0"

Wetland Hydrology Present? Yes X No ____

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP- 002

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		

Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		

Herb Stratum (Plot size: 5')			
1. Typha angustifolia	100%	Y	OBL
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	100% = Total Cover		

Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0 = 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: 1 (B)

Percent of 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:

X 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No ___

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

SOIL

Sampling Point: DP-002

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 3/1	100%	-	-	-		CL	
8-20+	10 YR 3/1	60%	10YR 5/8	40%	C	M	clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes X No ___

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara County Sampling Date: 08/6/19

Applicant/Owner: National Grid State: NY Sampling Point: DP- 003

Investigator(s): James Ireland Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 2%

Subregion (LRR or MLRA): LRR-L Lat: 43.147800 Long: -78.718085 Datum: NAD '83

Soil Map Unit Name: HuA- Hilton & Cayuga soils, 0 to 3 percent slopes, bedrock substratum NWI classification: Not classified

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

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

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

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

Hydrophytic Vegetation Present?	Yes _____	No X	**Is the Sampled Area within a Wetland?** Yes _____ No X
Hydric Soil Present?	Yes _____	No X	
Wetland Hydrology Present?	Yes _____	No X	If yes, optional Wetland Site ID: _____

Remarks: (Explain alternative procedures here or in a separate report.)

Upland Data Point for Wetland 002

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- /// Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No N Depth (inches): -

Water Table Present? Yes _____ No N Depth (inches): -

Saturation Present? (includes capillary fringe) Yes _____ No N Depth (inches): -

Wetland Hydrology Present? Yes _____ No X

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

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: DP- 003

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Herb Stratum (Plot size: 5')			
1. Melilotus officinalis	60%	Y	FACU
2. Daucus carota	50%	Y	UPL
3. Centaurea stoebe	40%	~~Y~~ -	NI
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	150 ~~150~~ = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0 = 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: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% ~~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:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- ___ 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ___ No X

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

Spotted Knapweed didn't have an indicator status so it was not included in total percent cover

SOIL

Sampling Point: DP-003

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
~~10YR4/3~~								
0-6	10YR4/3	100%	-	-	-	-	S:L	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: Rock

Depth (inches): 6"

Hydric Soil Present? Yes ____ No X

Remarks:

Dug Multiple soil pits but hit rock each time.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara County Sampling Date: 8/6/19

Applicant/Owner: National Grid State: NY Sampling Point: DP-004

Investigator(s): James Ireland Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): Concave Slope (%): 2%

Subregion (LRR or MLRA): LRR-L Lat: 43.197883 Long: -78.717988 Datum: NAD '83

Soil Map Unit Name: HmA - Hilton & Canaga soils, 0 to 3 percent slopes, bedrock substratum NWI classification: Not classified

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

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

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

Hydrophytic Vegetation Present?	Yes X	No	**Is the Sampled Area within a Wetland?** Yes X No
Hydric Soil Present?	Yes X	No	
Wetland Hydrology Present?	Yes X	No	If yes, optional Wetland Site ID: WL-002

Remarks: (Explain alternative procedures here or in a separate report.)

PEM, Data point for Wetland 002

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- X Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- N/A Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- X Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): -
Water Table Present?	Yes ____	No X	Depth (inches): -
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): -

Wetland Hydrology Present? Yes X No ____

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP- 004

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Herb Stratum (Plot size: 5')			
1. Typha angustifolia	100%	Y	OBL
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	100% = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	Ø = 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: 1 (B)

Percent of 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:

- X 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No ___

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

SOIL

Sampling Point: DP-004

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-10	10YR 3/2	70%	10YR 5/6	30%	C	M	CL	
10-20	10YR 3/2	50%	10YR 5/4	25%	C	M	CL	
			2.5 [illegible] 5/6	25%	C	M	CL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes X No ___

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara County Sampling Date: 8/7/19

Applicant/Owner: National Grid State: NY Sampling Point: DP- 008

Investigator(s): James Ireland Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 2%

Subregion (LRR or MLRA): LRR-L Lat: 43.147559 Long: -78.715777 Datum: NAD '83

Soil Map Unit Name: Cv - Cut & Fill Land NWI classification: Not classified

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

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

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

Hydrophytic Vegetation Present?	Yes X No	**Is the Sampled Area within a Wetland?** Yes X No
Hydric Soil Present?	Yes X No	
Wetland Hydrology Present?	Yes X No	If yes, optional Wetland Site ID: UL-003

Remarks: (Explain alternative procedures here or in a separate report.)

PEM, Datapoint for Wetland 003

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- N/A Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No X Depth (inches): -

Water Table Present? Yes ____ No X Depth (inches): -

Saturation Present? (includes capillary fringe) Yes ____ No X Depth (inches): -

Wetland Hydrology Present? Yes X No ____

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

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: DP- 004

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Herb Stratum (Plot size: 5')			
1. Phragmites australis	90%	Y	FACW
2. Centaurea stoebe	15%	-	NL
3. Solidago canadensis	10%	N	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	100% = Total Cover		
Woody Vine Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
	_____ = 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: 1 (B)

Percent of 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:

- X 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No ___

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

Spotted knapweed does not have an indicator status therefore not included in the total cover.

SOIL

Sampling Point: DP-006

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-7 in	10 YR 3/2	100 %					silty loam	
7-26 in	10 YR 3/2	60 %	10 YR 5/1	30 %	C	M	clay loam	
			10 YR 5/8	10 %	C	M	clay loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes X No ___

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara County Sampling Date: 8/7/19

Applicant/Owner: National Grid State: NY Sampling Point: DP- 07

Investigator(s): James Ireland Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Convex Slope (%): 2%

Subregion (LRR or MLRA): LRR-L Lat: 43.147592 Long: -78.715574 Datum: NAD '83

Soil Map Unit Name: Cu - Cut and Fill land NWI classification: Not classified

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

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

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

Hydrophytic Vegetation Present?	Yes ____ No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____ No X	
Wetland Hydrology Present?	Yes ____ No X	If yes, optional Wetland Site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.)

Upland point for Wetland 03

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- n/a Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No X Depth (inches):

Water Table Present? Yes ____ No X Depth (inches):

Saturation Present? (includes capillary fringe) Yes ____ No X Depth (inches):

Wetland Hydrology Present? Yes ____ No X

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

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: DP-007

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Herb Stratum (Plot size: 5')			
1. Centaurea stoebe	100%	-	NL
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	0 = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 0 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (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:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ___ No N

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

Centaurea stoebe has no indicator status so it was not included in total percent cover. There is no percent cover and Spotted Knapweed being the only species, problematic veg. was used. Dot spotted Knapweed is normally found in upland areas no veg. plots did not pass.

SOIL

Sampling Point: DP- 67

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

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0- 8in	10YR 4/3	100%					Silty loam	
8+ in								rock at 8+ in

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: Rock

Depth (inches): 8"

Hydric Soil Present? Yes ____ No X

Remarks:

Multiple pits were dug but rock was hit at each one around 8".

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara County Sampling Date: 8/7/19

Applicant/Owner: National Grid State: NY Sampling Point: DP- 008

Investigator(s): James Ireland Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 3%

Subregion (LRR or MLRA): LRR-L Lat: 43.147496 Long: -78.714993 Datum: NAD '83

Soil Map Unit Name: Cb - Canandaigua silt loam NWI classification: Not classified

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

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

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

Hydrophytic Vegetation Present?	Yes X	No	**Is the Sampled Area within a Wetland?** Yes X No
Hydric Soil Present?	Yes X	No	
Wetland Hydrology Present?	Yes X	No	If yes, optional Wetland Site ID: WL-004

Remarks: (Explain alternative procedures here or in a separate report.)

Data Point for Wetland 004, PEM

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- N/A Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ___	No X	Depth (inches): -
Water Table Present?	Yes ___	No X	Depth (inches): -
Saturation Present? (includes capillary fringe)	Yes ___	No X	Depth (inches): -

Wetland Hydrology Present? Yes X No ___

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-008

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0'	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0	= Total Cover	
Herb Stratum (Plot size: 5')			
1. Lythrum salicaria	60%	Y	OBL
2. Phalaris arundinacea	40%	Y	FACW
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	100%	= Total Cover	
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0	= 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: 2 (B)

Percent of 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:

- X 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No ___

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

SOIL

Sampling Point: DP-605

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-7 in	10YR 3/1	90%	7.5YR 5/8	10%	C	M	SiH clay loam	
7-20in	10YR 4/1	80%	2.5Y 5/4	20%	C	M	clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes X No ___

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara County Sampling Date: 8/7/19

Applicant/Owner: National Grid State: NY Sampling Point: DP-004

Investigator(s): James Ireland Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): convex Slope (%): 2%

Subregion (LRR or MLRA): LRR-L Lat: 43.147217 Long: -78.714995 Datum: NAD '83

Soil Map Unit Name: Ca - Canandaigua silt loam NWI classification: Not classified

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

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

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

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.)

Upland for Wetland 004 & Wetland 005

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- N/A Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): -
Water Table Present?	Yes ____	No X	Depth (inches): -
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): -

Wetland Hydrology Present? Yes ____ No X

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

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: DP-009

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Herb Stratum (Plot size: 5')			
1. Centaurea stoebe	90%	–	NI
2. Solidago canadensis	15%	Y	~~FACU~~ FAC
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	15% = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (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:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- ___ 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ___ No X

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

Spotted Knapweed does not have an indicator status and was not used in total percent cover.

SOIL

Sampling Point: DP- 009

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10 YR 3/2	100%					S:LC	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: Gravel / Rock

Depth (inches): 4"

Hydric Soil Present? Yes ____ No X

Remarks:

Dug Multiple soil pits and encountered rock at ~4"

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara county Sampling Date: 8/7/19

Applicant/Owner: National Grid State: NY Sampling Point: DP- 680

Investigator(s): James Ireland Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 1%

Subregion (LRR or MLRA): LRR-L Lat: 43.147256 Long: -78.712626 Datum: NAD '83

Soil Map Unit Name: PsA- Phelps gravelly loam, 0 to 5 percent slopes NWI classification: PFOIE

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes Y No ____

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

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

Hydrophytic Vegetation Present?	Yes Y	No	**Is the Sampled Area within a Wetland?** Yes Y No
Hydric Soil Present?	Yes Y	No	
Wetland Hydrology Present?	Yes Y	No	If yes, optional Wetland Site ID: WL-CC5

Remarks: (Explain alternative procedures here or in a separate report.)

PEM, Data point for WL-CC5, DEC wetland CP-23

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- Y High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- NA Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes Y No ____ Depth (inches): 3"

Water Table Present? Yes Y No ____ Depth (inches): 0"

Saturation Present? (includes capillary fringe) Yes Y No ____ Depth (inches): 0"

Wetland Hydrology Present? Yes X No ____

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

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: DP-C10

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Herb Stratum (Plot size: 5')			
1. Phragmites australis	80%	Y	FACW
2. Lythrum salicaria	30%	Y	OBL
3. Phalaris arundinacea	10%	N	FACW
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	120% = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0 = 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: 2 (B)

Percent of 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:

- X 1 - Rapid Test for Hydrophytic Vegetation
- ___ 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No ___

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

SOIL

Sampling Point: DP-010

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR3/1	80	7.5YR 5/6	20	C	M	SiCL	
8-20	10YR4/1	70%	2.5Y 5/4	30%	C	M	CL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes X No ___

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara County Sampling Date: 8/7/19

Applicant/Owner: National Grid State: NY Sampling Point: DP-011

Investigator(s): James Ireland Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): concave Slope (%): 1%

Subregion (LRR or MLRA): LRR-L Lat: 43.145063 Long: -78.763256 Datum: NAD '83

Soil Map Unit Name: OdB- Odessa silty clay loam, 3% percent slopes NWI classification: Not classified

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

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

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

Hydrophytic Vegetation Present?	Yes X No	**Is the Sampled Area within a Wetland?** Yes X No
Hydric Soil Present?	Yes X No	
Wetland Hydrology Present?	Yes X No	If yes, optional Wetland Site ID: WL-006

Remarks: (Explain alternative procedures here or in a separate report.)

Wetland point for Wetland 006, PEM

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- N/A Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes X No ____ Depth (inches): 2"

Water Table Present? Yes X No ____ Depth (inches): 3"

Saturation Present? (includes capillary fringe) Yes X No ____ Depth (inches): 0"

Wetland Hydrology Present? Yes X No ____

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

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: DP- 01

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Herb Stratum (Plot size: 5')			
1. Lythrum salicaria	50%	Y	OBL
2. Eupatorium perfoliatum	40%	Y	FACW
3. Verbena hastata	20%	N	FACW
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	110 = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0 = 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: 2 (B)

Percent of 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:

- X 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No ___

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

SOIL

Sampling Point: DP- 01

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-10 in	10YR 2/1	100%					silty loam clay	
10-20 in	10YR 2/1	80%	7.5YR 5/6	20%			silty clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes X No ___

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara County Sampling Date: 8/7/19

Applicant/Owner: National Grid State: NY Sampling Point: DP-012

Investigator(s): James Ireland Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): concave Slope (%): 2-6

Subregion (LRR or MLRA): LRR-L Lat: 43.144762 Long: -78.762767 Datum: NAD '83

Soil Map Unit Name: OdA - Odessa silty clay loam, 0 to 3 percent slopes NWI classification: Not classified

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

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

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

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____	No X	If yes, optional Wetland Site ID: ____
Wetland Hydrology Present?	Yes ____	No X	

Remarks: (Explain alternative procedures here or in a separate report.)

Upland point for Wetland 006

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- NH Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): –
Water Table Present?	Yes ____	No X	Depth (inches): –
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): –

Wetland Hydrology Present? Yes ____ No X

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

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: DP- 012

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Herb Stratum (Plot size: 5')			
1. Centaurea stoebe	70%	-	NI
2. Solidago canadensis	20%	Y	FACU
3. Solidago juncea	00%	-	NI
4. Rudbeckia hirta	15%	Y	FACU
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	35% = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (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:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ____ No X

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

Spotted Knapweed & Early goldenrod do not have an indicator status therefore not included in listed percent cover.

SOIL

Sampling Point: DP-12

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-11 in	10 YR 3/2	100%					Silt loam	
11-20in	10 YR 3/2	80%	5 YR 4/6	20%	C	M	Silt loam clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type:_____

Depth (inches):_____

Hydric Soil Present? **Yes** _____ **No** _____

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara County Sampling Date: 08/17/

Applicant/Owner: National Grid State: NY Sampling Point: DP-013

Investigator(s): James Ireland Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): None Slope (%): 1%

Subregion (LRR or MLRA): LRR-L Lat: 43.143867 Long: -78.694591 Datum: NAD '83

Soil Map Unit Name: CaB- Cayuga & Canandaigua silt loams, 2 to 6 percent slopes NWI classification: Not classified

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

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

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

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

Hydrophytic Vegetation Present?	Yes _____	No X	**Is the Sampled Area within a Wetland?** Yes _____ No X
Hydric Soil Present?	Yes _____	No X	
Wetland Hydrology Present?	Yes _____	No X	If yes, optional Wetland Site ID: _____

Remarks: (Explain alternative procedures here or in a separate report.)

Upland Point for Wetland 007

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- N/A Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No X	Depth (inches):
Water Table Present?	Yes _____	No X	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches):

Wetland Hydrology Present? Yes _____ No X

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-013

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Herb Stratum (Plot size: 5')			
1. Cotula coronopifolia	100%	Y	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	100% = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (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:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes _____ No X

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

SOIL

Sampling Point: DP-013

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-20	10YR 4/3	100					SiL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes _____ No X

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara County Sampling Date: 5/2/19

Applicant/Owner: National Grid State: NY Sampling Point: DP-014

Investigator(s): James Ireland Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 3%

Subregion (LRR or MLRA): LRR-L Lat: 43.145683 Long: -78.698694 Datum: NAD '83

Soil Map Unit Name: OdA - Odessa silty clay loam, 0 to 3 percent slopes NWI classification: Not classified

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

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

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

Hydrophytic Vegetation Present?	Yes X	No	**Is the Sampled Area within a Wetland?** Yes X No
Hydric Soil Present?	Yes X	No	
Wetland Hydrology Present?	Yes X	No	If yes, optional Wetland Site ID: WL-007

Remarks: (Explain alternative procedures here or in a separate report.)

Data Point for Wetland 007

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- NA Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes X No ____ Depth (inches): 1"

Water Table Present? Yes ____ No X Depth (inches): ~

Saturation Present? (includes capillary fringe) Yes ____ No X Depth (inches): ~

Wetland Hydrology Present? Yes X No ____

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

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: DP-014

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Herb Stratum (Plot size: 5')			
1. Lythrum salicaria	60%	Y	OBL
2. Phragmites australis	20%	Y	FACW
3. Scirpus cyperinus	10%	N	OBL
4. Eupatorium perfoliatum	5%	N	FACW
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	95% = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0 = 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: 2 (B)

Percent of 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:

- X 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No ___

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

SOIL

Sampling Point: DP-014

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 3/2	80%	7.5YR 5/6	20	C	M	SiC	
12-20	10YR 3/2	60%	7.5YR 5/6	40	C	M	C	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes Y No ___

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/12/19

Applicant/Owner: National Grid State: NY Sampling Point: DP-020

Investigator(s): Jimmy Ireland / Bryan Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 2%

Subregion (LRR or MLRA): LRR-L Lat: 43.14157 Long: -78.674854 Datum: NAD '83

Soil Map Unit Name: CIA - Churchville silt loam - 0 to 2 percent slopes NWI classification: Not classified

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

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

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

Hydrophytic Vegetation Present?	Yes X	No	**Is the Sampled Area within a Wetland?** Yes X No
Hydric Soil Present?	Yes X	No	
Wetland Hydrology Present?	Yes X	No	If yes, optional Wetland Site ID: WL-008

Remarks: (Explain alternative procedures here or in a separate report.)

Data Point for Wetland -008

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- X Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No X Depth (inches): –

Water Table Present? Yes ____ No X Depth (inches): –

Saturation Present? (includes capillary fringe) Yes ____ No X Depth (inches): –

Wetland Hydrology Present? Yes X No ____

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP- 020

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1. Fraxinus pennsylvanica	10%	Y	FACW
2. Acer saccharinum	10%	Y	FACW
3.			
4.			
5.			
6.			
7.			
	20% = Total Cover		
Herb Stratum (Plot size: 5')			
1. Bidens frondosa	40%	Y	FACW
2. Lythrum salicaria	30%	Y	OBL
3. Typha angustifolia	25%	Y	OBL
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	95% = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1. Vitis riparia	35%	Y	FAC
2.			
3.			
4.			
	35% = 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)

Percent of 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:

- X 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No ___

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

SOIL Sampling Point: DP-020

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 3/2	70	7.5YR 4/6	30	C	M	Si L	
12-20	10YR 3/2	60	7.5YR	25	C	M		
			10YR 2/2	15	C	M	Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: N. A.

Depth (inches): ___

Hydric Soil Present? Yes ✓ No ___

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/12/

Applicant/Owner: National Grid State: NY Sampling Point: DP 021

Investigator(s): Jimmy Toland / Bryan Moore Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): Access road Local relief (concave, convex, none): Convex Slope (%): 2-6

Subregion (LRR or MLRA): LRR-L Lat: 43.141918 Long: -78.674993 Datum: NAD '83

Soil Map Unit Name: CIA - Churchville silt loam, 0 to 2 percent slopes NWI classification: Not class. Field

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

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

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

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

Hydrophytic Vegetation Present?	Yes _____	No Y	**Is the Sampled Area within a Wetland?** Yes _____ No X
Hydric Soil Present?	Yes _____	No Y	
Wetland Hydrology Present?	Yes _____	No Y	If yes, optional Wetland Site ID: _____

Remarks: (Explain alternative procedures here or in a separate report.)

Upland data point for Wetland 008

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No Y	Depth (inches): -
Water Table Present?	Yes _____	No Y	Depth (inches): -
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches): -

Wetland Hydrology Present? Yes _____ No X

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP- 021

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Herb Stratum (Plot size: 5')			
1. Centaurea stoebe	60%	–	NI
2. Phleum pratense	90%	Y	FACU
3. Daucus carota	30%	Y	UPL
4. Solidago canadensis	80%	Y	FACU
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	150% = Total Cover		
Woody Vine Stratum (Plot size:)			
1.			
2.			
3.			
4.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (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:

__ 1 - Rapid Test for Hydrophytic Vegetation

__ 2 - Dominance Test is >50%

__ 3 - Prevalence Index is ≤3.0[1]

__ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ____ No X

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

Spotted Knapweed is an invasive and does not have an indicator status, therefore it was not included in total cover.

SOIL

Sampling Point: DP-021

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10yr 4/3	85	10yr 5/8	15	C	M	Si L	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: Compaction

Depth (inches): 12"

Hydric Soil Present? Yes ____ No X

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: ~~Lockport~~ Niagara Sampling Date: 8/13/19

Applicant/Owner: National Grid State: NY Sampling Point: DP- 026

Investigator(s): Jimmy Ireland | Bryan Monte Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 2%

Subregion (LRR or MLRA): LRR-L Lat: 43.140207 Long: -78.630313 Datum: NAD '83

Soil Map Unit Name: HIA- Hilton silt loam, 0 to 3 percent slopes NWI classification: Not classified

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

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

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

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

Hydrophytic Vegetation Present?	Yes Y	No	**Is the Sampled Area within a Wetland?** Yes X No
Hydric Soil Present?	Yes Y	No	
Wetland Hydrology Present?	Yes Y	No	If yes, optional Wetland Site ID: WL-009

Remarks: (Explain alternative procedures here or in a separate report.)

PEM Data point for Wetland 009

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): –

Water Table Present? Yes _____ No X Depth (inches): –

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): –

Wetland Hydrology Present? Yes X No _____

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP- 026

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	Ø = Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	Ø = Total Cover		
Herb Stratum (Plot size: 5')			
1. Phragmites australis	100%	Y	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	100% = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	Ø = 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: 1 (B)

Percent of 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:

X 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No ___

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

SOIL Sampling Point: DP- 02

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-15	10yr 3/2	75	2.5yr 4/4	25	C	M	SiLC	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: Rocks

Depth (inches): 15"

Hydric Soil Present? Yes X No ___

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/13/19

Applicant/Owner: National Grid State: NY Sampling Point: DP-007

Investigator(s): Jimmy Eyland / Bryan Munro Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): convex Slope (%): 2%

Subregion (LRR or MLRA): LRR-L Lat: 43.140252 Long: -78.630497 Datum: NAD '83

Soil Map Unit Name: HIA - Hilton Silt loam, 0 to 3 percent slopes NWI classification: Not classified

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

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

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

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.)

Upland Point for Wetland 009

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): -
Water Table Present?	Yes ____	No X	Depth (inches): -
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): -

Wetland Hydrology Present? Yes ____ No X

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP- 027

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1. Lonicera morrowii	15%	Y	FACU
2.			
3.			
4.			
5.			
6.			
7.			
	15% = Total Cover		
Herb Stratum (Plot size: 5')			
1. Solidago canadensis	80%	Y	FACU
2. Daucus carota	30%	Y	UPL
3. Poaceae sp.	50%	–	–
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	110 = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (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:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ___ No X

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

Poaceae wasn't able to be identified down to species therefore not included in total percent cover

SOIL

Sampling Point: DP-0267

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10yr 4/3	100					SL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: Rock

Depth (inches): 8"

Hydric Soil Present? Yes _____ No X

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/13/19

Applicant/Owner: National Grid State: NY Sampling Point: DP-029

Investigator(s): Jimmy Eckhardt / Bryan Nuñez Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): concave Slope (%): 1%

Subregion (LRR or MLRA): LRR-L Lat: 43.140264 Long: -78.635384 Datum: NAD '83

Soil Map Unit Name: ClA- Churchville silt loam, 0 to 2 percent slopes NWI classification: Not classified

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ___

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

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

Hydrophytic Vegetation Present?	Yes X No ___	Is the Sampled Area within a Wetland? Yes X No ___
Hydric Soil Present?	Yes X No ___	
Wetland Hydrology Present?	Yes X No ___	If yes, optional Wetland Site ID: VL-010

Remarks: (Explain alternative procedures here or in a separate report.)

PEM, Wetland 010

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- X Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): -

Water Table Present? Yes ___ No X Depth (inches): -

Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): -

Wetland Hydrology Present? Yes X No ___

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-029

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1. Apocynum cannabinum	30%	Y	FAC
2.			
3.			
4.			
5.			
6.			
7.			
	30% = Total Cover		
Herb Stratum (Plot size: 5')			
1. Phragmites australis	60%	Y	FACW
2. Lythrum salicaria	40%	Y	OBL
3. Melilotus officinalis	40%	Y	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	140% = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0 = 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: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 75% (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:

- X 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No ___

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

SOIL

Sampling Point: DP-024

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10yr 3/2	70	7.5yr 4/6	30	C	M	L C	
12-20	10yr 3/2	60	7.5yr 4/6	25				
			5yr 5/8	15	C	M	L C	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes X No ___

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/13/19

Applicant/Owner: National Grid State: NY Sampling Point: DP-035

Investigator(s): Jimmy Eckard Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): convex Slope (%): 2%

Subregion (LRR or MLRA): LRR-L Lat: 43.140466 Long: -78.635397 Datum: NAD '83

Soil Map Unit Name: CtA- Churchville silt loam, 0 to 2 percent slopes NWI classification: Not classified

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

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

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

Hydrophytic Vegetation Present?	Yes ____ No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes X No	
Wetland Hydrology Present?	Yes ____ No X	If yes, optional Wetland Site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.)

Upland Data Point for Wetland 10

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches):
Water Table Present?	Yes ____	No X	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches):

Wetland Hydrology Present? Yes ____ No X

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP- 030

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1. Salix lasiolepis	5%	Y	FACW
2.			
3.			
4.			
5.			
6.			
7.			
	5% = Total Cover		
Herb Stratum (Plot size: 5')			
1. Phleum pratense	70%	Y	FACU
2. Centaurea stoebe	40%	–	–
3. Daucus carota	30%	Y	UPL
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	100% = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0 = 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: 3 (B)

Percent of 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:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ___ No X

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

Centaurea stoebe does not have an indicator status therefore not included in total percent cover.

SOIL

Sampling Point: DP-030

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-10	10yr 3/2	80	7.5 yr 4/6	20	C	M	Si L	
10-20	10yr 3/2	60	7.5 yr 5/6	20				
			10yr 5/6	20			C L	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- x Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes x No ___

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/13/19

Applicant/Owner: National Grid State: NY Sampling Point: DP-031

Investigator(s): Jimmy Eveland / Bryan Moore Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 2-6

Subregion (LRR or MLRA): LRR-L Lat: 43.140343 Long: -78.638573 Datum: NAD '83

Soil Map Unit Name: CIA - Churchville silt loam, 0 to 2 percent slopes NWI classification: Not classified

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

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

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

Hydrophytic Vegetation Present?	Yes X	No	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.)

Upland data point for Wetland 011

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): X
Water Table Present?	Yes ____	No X	Depth (inches): X
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): X

Wetland Hydrology Present? Yes ____ No X

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-031

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0% = Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1. Apocynum cannabinum	10%	Y	FAC
2.			
3.			
4.			
5.			
6.			
7.			
	10% = Total Cover		
Herb Stratum (Plot size: 5')			
1. Euthamia graminifolia	70%	X	FAC
2. Poaceae sp.	40%	–	–
3. Rubus allegheniensis	20%	Y	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	90% = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0% = 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: 3 (B)

Percent of 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:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No

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

SOIL

Sampling Point: DP- 031

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

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-~~10~~ 12	10YR 3/2	100					SL	
~~12-20~~	~~10YR 3/2~~							

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes _____ No X

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/13/19

Applicant/Owner: National Grid State: NY Sampling Point: DP-032

Investigator(s): Jimmy Ireland Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): Drainageway Local relief (concave, convex, none): Concave Slope (%): 3%

Subregion (LRR or MLRA): LRR-L Lat: 43.140328 Long: -78.638349 Datum: NAD '83

Soil Map Unit Name: CrA - Churchville silt loam, 0 to 2 percent slopes NWI classification: Not classified

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

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

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

Hydrophytic Vegetation Present?	Yes Y	No	**Is the Sampled Area within a Wetland?** Yes X No
Hydric Soil Present?	Yes Y	No	
Wetland Hydrology Present?	Yes X	No	If yes, optional Wetland Site ID: WL-011

Remarks: (Explain alternative procedures here or in a separate report.)

PEM, Wetland 011

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No X Depth (inches): X

Water Table Present? Yes ____ No X Depth (inches): X

Saturation Present? (includes capillary fringe) Yes ____ No X Depth (inches): X

Wetland Hydrology Present? Yes X No ____

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP- 03d

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Herb Stratum (Plot size: 5')			
1. Phragmites australis	50%	Y	FACW
2. Lythrum salicaria	40%	Y	OBL
3. Melilotus officinalis	15%	N	FACU
4. Eutrochium graminifolium	10%	N	FAC
5. Rubus allegheniensis	10%	N	FACU
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	125% = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0 = 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: 2 (B)

Percent of 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:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No ___

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

SOIL

Sampling Point: DP- 32

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10yr 3/2	100					SL	
6-20	10yr 3/2	60	7.5yr 5/6	40			CSL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes X No ___

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/13/19

Applicant/Owner: National Grid State: NY Sampling Point: DP-034

Investigator(s): Jimmy Ireland Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): Hillside Local relief (concave, convex, none): convex Slope (%): 3%

Subregion (LRR or MLRA): LRR-L Lat: 43.140356 Long: -78.624761 Datum: NAD '83

Soil Map Unit Name: Le - Lakemont silty clay loam, 0 to 3 percent slopes NWI classification: Not classified

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

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

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

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes X	No	
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.)

Upland Data Point for Wetland 012

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No Y	Depth (inches):
Water Table Present?	Yes ____	No Y	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches):

Wetland Hydrology Present? Yes ____ No X

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-034

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Herb Stratum (Plot size: 5')			
1. Poaceae spp.	60%	-	-
2. Eutamia graminifolia	35%	Y	FAC
3. Elecampane inula	20%	Y	FACU
4. Dipsacus laciniatus	80%	Y	FACU
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	75% = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0 = 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: 3 (B)

Percent of 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:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ___ No X

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

Could not identify Poaceae down to species therefore did not include in total percent cover.

SOIL

Sampling Point: DP-034

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-20	10yr 3/1	60	2.5yr 4/6	40			CL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ✓ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes ✓ No ___

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/13/19

Applicant/Owner: National Grid State: NY Sampling Point: DP- 035

Investigator(s): Jimmy Ireland Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): Concave Slope (%): 1%

Subregion (LRR or MLRA): LRR-L Lat: 43.140703 Long: -78.625633 Datum: NAD '83

Soil Map Unit Name: OvA - Ovid silt loam, 0 to 2 percent NWI classification: Not classified

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

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

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

Hydrophytic Vegetation Present?	Yes X	No	**Is the Sampled Area within a Wetland?** Yes X No
Hydric Soil Present?	Yes X	No	
Wetland Hydrology Present?	Yes X	No	If yes, optional Wetland Site ID: WL-012

Remarks: (Explain alternative procedures here or in a separate report.)

Data point for Wetland 012

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- X Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No Y	Depth (inches): -
Water Table Present?	Yes ____	No X	Depth (inches): -
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): -

Wetland Hydrology Present? Yes X No ____

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-035

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		

Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		

Herb Stratum (Plot size: 5')			
1. Typha angustifolia	95%	Y	OBL
2. Lythrum salicaria	15%	N	FACW
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	110% = Total Cover		

Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0 = 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: 1 (B)

Percent of 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:

- X 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No ___

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

SOIL

Sampling Point: DP-035

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-11	10YR 3/1	80%	2.5YR 5/8	20%	C	M	CL	
11-20	10YR 3/1	60%	2.5YR 5/8	40%	C	M	CL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes X No ___

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/14/19

Applicant/Owner: National Grid State: NY Sampling Point: DP- 035

Investigator(s): Jimmy Ireland Section, Township, Range: Town of Royalton

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): concave Slope (%): 1%

Subregion (LRR or MLRA): LRR-L Lat: 43.140343 Long: -78.615388 Datum: NAD '83

Soil Map Unit Name: OvA- Ovid silt loam, 0 to 3 percent slopes NWI classification: Not classified

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

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

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

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

Hydrophytic Vegetation Present?	Yes X No	**Is the Sampled Area within a Wetland?** Yes X No
Hydric Soil Present?	Yes X No	
Wetland Hydrology Present?	Yes X No	If yes, optional Wetland Site ID: WL-017

Remarks: (Explain alternative procedures here or in a separate report.)

PEM, Data Point for Wetland 017

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): –

Water Table Present? Yes _____ No X Depth (inches): –

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): –

Wetland Hydrology Present? Yes X No _____

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-038

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Herb Stratum (Plot size: 5')			
1. Typha angustifolia	95%	Y	OBL
2. Phragmites australis	15%	N	FACW
3. Mentha arvensis	10%	N	FACW
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	120% = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0 = 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: 1 (B)

Percent of 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:

- X 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No ___

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

SOIL

Sampling Point: DP- 035

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 3/1	70%	10YR 5/6	15%	C	M	CL	
~~8-20~~	~~10YR 3/2~~		7.5YR 5/8	15%	C	M		
8-20	10YR 3/2	60%	7.5YR 5/8	20%	C	M	C	
			2.5YR 4/6	20%	C	M		

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes X No ___

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/17/19

Applicant/Owner: National Grid State: NY Sampling Point: DP- 039

Investigator(s): Jimmy Eyland Section, Township, Range: Town of Royalton

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 2%

Subregion (LRR or MLRA): LRR-L Lat: 43.140550 Long: -78.617616 Datum: NAD '83

Soil Map Unit Name: OdA - Odessa silty clay loam, 0 to 3 percent slopes NWI classification: Not classified

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

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

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

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

Hydrophytic Vegetation Present?	Yes _____	No X	**Is the Sampled Area within a Wetland?** Yes _____ No X
Hydric Soil Present?	Yes _____	No X	
Wetland Hydrology Present?	Yes _____	No X	If yes, optional Wetland Site ID: _____

Remarks: (Explain alternative procedures here or in a separate report.)

Upland Data Point for Wetland 039

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No X	Depth (inches): -
Water Table Present?	Yes _____	No X	Depth (inches): -
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches): -

Wetland Hydrology Present? Yes _____ No X

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-039

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		

Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		

Herb Stratum (Plot size: 5')			
1. Lolium perenne	80%	Y	FACU
2. Dipsacus laciniatus	50%	Y	FACU
3. Daucus carota	20%	N	UPL
4. Asclepias syriaca	10%	N	UPL
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	160 = Total Cover		

Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (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:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ___ No X

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

SOIL

Sampling Point: DP-039

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-11	10yr 4/3	100					SiL	
11-20	10yr 3/2	60	7.5yr 4/4	30				
			2.5y	10	C	M	CL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes ___ No X

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/14/19

Applicant/Owner: National Grid State: NY Sampling Point: DP-046

Investigator(s): Jimmy Ireland Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): None Slope (%): 1%

Subregion (LRR or MLRA): LRR-L Lat: 43.140503 Long: -78.622065 Datum: NAD '83

Soil Map Unit Name: OdA- Odessa silty clay loam, 0 to 3 percent slopes NWI classification: Unclassified

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

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

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

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

Hydrophytic Vegetation Present?	Yes _____	No X	**Is the Sampled Area within a Wetland?** Yes _____ No X
Hydric Soil Present?	Yes _____	No X	
Wetland Hydrology Present?	Yes _____	No X	If yes, optional Wetland Site ID: _____

Remarks: (Explain alternative procedures here or in a separate report.)

Upland for Wetland 014

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No X	Depth (inches): -
Water Table Present?	Yes _____	No X	Depth (inches): -
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches): -

Wetland Hydrology Present? Yes _____ No X

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-040

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Herb Stratum (Plot size: 5')			
1. Lolium perenne	70%	Y	FACU
2. Dipsacus laciniatus	35%	Y	FACU
3. Apocynum cannabinum	30%	Y	FAC
4. Asclepias syriaca	15%	N	UPL
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	150% = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0 = 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: 3 (B)

Percent of 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:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ___ No X

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

SOIL Sampling Point: DP-4U

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-14	10yr 3/2	90	10yr 5/8	10	C	M	Si L	
14-20	10yr 3/2	50	7.5yr 5/8	30	C	M		
			2.5y 5/3	20	C	M	L C	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes ___ No X

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/14/19

Applicant/Owner: National Grid State: NY Sampling Point: DP- 041

Investigator(s): Jimmy Ireland Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): Drainageway Local relief (concave, convex, none): concave Slope (%): 1%

Subregion (LRR or MLRA): LRR-L Lat: 43.140276 Long: -78.622058 Datum: NAD '83

Soil Map Unit Name: OdA - Odessa silty loam, clay loam, 0 to 3 percent slope NWI classification: Not classified

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

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

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

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

Hydrophytic Vegetation Present?	Yes Y	No	**Is the Sampled Area within a Wetland?** Yes X No
Hydric Soil Present?	Yes X	No	
Wetland Hydrology Present?	Yes X	No	If yes, optional Wetland Site ID: WL-014

Remarks: (Explain alternative procedures here or in a separate report.)

PEM datapoint of Wetland 014.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- Y Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- Y Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- Y Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No X	Depth (inches): –
Water Table Present?	Yes _____	No X	Depth (inches): –
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches): –

Wetland Hydrology Present? Yes X No _____

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP- 041

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	Ø = Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	Ø = Total Cover		
Herb Stratum (Plot size: 5')			
1. Lythrum salicaria	50%	Y	OBL
2. Eutamia graminifolia	30%	Y	FAC
3. Bidens aristosa	30%	Y	FACW
4. Juncus effusus	80%	N	OBL
5. Dopsacus laciniatus	10%	N	FACU
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	140% = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	Ø = 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)

Percent of 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:

- X 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No ___

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

SOIL Sampling Point: DP-04

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-10	10yr 3/1	80	7.5yr 5/6	20			Si CL	
10-20	10yr 4/1	60	7.5yr 5/8	30	C	M		
	~~10yr 3/1~~		10yr 3/1	10	C	M	L	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L, M)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (F21)
- ___ 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):

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes X No ___

Remarks:

APPENDIX B
WATERCOURSE DATA FORMS - STREAMS

FISHER ASSOCIATES

Stream Data Form

Stream Field ID: Stream 001

Data Point ID: DP-005 Date: 08/06/19 Project #: 190176

Project Name: NO - Batavia - Lockport Article VII

Evaluator(s): Jimmy Ireland

County: Niagara State: NY

Stream Name: Erie Canal - NYS Barge Canal

State Classified: Yes ☐ No ☐ Not Applicable ☐

If Yes, Classification: C

Lat: 43.147784 Long: -78.716194

Hydrologic Characteristics

Flow Regime: Perennial [X] Intermittent ☐ Ephemeral ☐

Surface Water: Present [X] Absent ☐

Perceptible Flow: Present [X] Absent ☐

Water Depth at Thalweg: 15'

Wetted Perimeter Width: 84'

Flow/Gradient Direction: East

Geomorphologic Characteristics

Primary Substrate Class: Unknown

	Width (ft.)		
	at DP	Min	Max
OHWM	84'	84'	100'
Top of Bank	84'	84'	100'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:

Left: 85° - 1143%

Right: 85° - 1143%

Bank Stability Summary

Left: Stable - Manmade Banks

Right: Same as above

FISHER ASSOCIATES

Stream Data Form

Data Point ID: DP- 005

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: Upland 0'-150'- Upland shrubs, Rose & Honeysuckle

Right: Same as above.

Associated Wetland Present: Yes ☐ No ☒
If Yes, ID:

Associated Artificial Drain Present: Yes ☐ No ☒
If Yes, ID:

Jurisdictional Connectivity/Supplemental Comments:

This is a section of the Erie Canal

FISHER ASSOCIATES

Stream Data Form

Stream Field ID: **Stream** 002

Data Point ID: DP- 018 Date: 8/8/19 Project #: 190176

Project Name: NG Batavia-Lockport Article VII

Evaluator(s): James Ireland

County: Niagara State: New York

Stream Name: Minor tributary to Tonawanda Creek

State Classified: Yes [x] No [ ] Not Applicable [ ]

If Yes, Classification: B

Lat: 43.142082 Long: -78.678408

Hydrologic Characteristics

Flow Regime: Perennial [x] Intermittent [ ] Ephemeral [ ]

Surface Water: Present [x] Absent [ ]

Perceptible Flow: Present [x] Absent [ ]

Water Depth at Thalweg: 36" inches

Wetted Perimeter Width: 20' feet

Flow/Gradient Direction: South

Geomorphologic Characteristics

Primary Substrate Class: S:C

	Width (ft.)		
	at DP	Min	Max
OHWM	20'	3'	22'
Top of Bank	~~22~~	4'	25'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:

Left: 50° - 120%

Right: 40° - 84%

Bank Stability Summary

Left: Stable - Vegetated Banks

Right: Same as above

FISHER ASSOCIATES

Stream Data Form

Data Point ID: DP- 018

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-150'- ROW - Shrub - Gray dogwood, river grape, Queen Ann's, C. Goldenrod, P. Loosestrife

Right: Same as above

Associated Wetland Present: Yes ☐ No ☒
If Yes, ID:

Associated Artificial Drain Present: Yes ☐ No ☒
If Yes, ID:

Jurisdictional Connectivity/Supplemental Comments:

Flows South off PSL into NWI

FISHER ASSOCIATES

Stream Data Form

Stream Field ID: Stream 003

Data Point ID: DP- 002 Date: 8/12/19 Project #: 190176

Project Name: NG Batavia-Lockport Article VII

Evaluator(s): James Ireland / Bryan Munro

County: Niagara State: New York

Stream Name: Unnamed Tributary to Mud Creek

State Classified: Yes [ ] No [X] Not Applicable [ ]

If Yes, Classification: NA

Lat: 43.141896 Long: -78.665761

Hydrologic Characteristics

Flow Regime: Perennial [ ] Intermittent [X] Ephemeral [ ]

Surface Water: Present [ ] Absent [X]

Perceptible Flow: Present [ ] Absent [X]

Water Depth at Thalweg: 0" inches

Wetted Perimeter Width: 0' feet

Flow/Gradient Direction: West / South

Geomorphologic Characteristics

Primary Substrate Class: S:L

	Width (ft.)		
	at DP	Min	Max
OHWM	4	2	4
Top of Bank	6	3	6

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:

Left: 40° - 84%

Right: 35° - 70%

Bank Stability Summary

Left: Stable - Vegetated Banks

Right: Same as above

FISHER ASSOCIATES

Stream Data Form

Data Point ID: DP- 022

Habitat Characteristics

Aquatic Vegetation Present: Yes [ ] No [X]
If Yes, Describe:

Aquatic Organisms Observed: Yes [ ] No [X]
If Yes, Describe:

Terrestrial Organisms Observed: Yes [ ] No [X]
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-150' - Residential Yard.

Right: 0'-150' - Upland / deciduous forest

Associated Wetland Present: Yes [ ] No [X]
If Yes, ID:

Associated Artificial Drain Present: Yes [X] No [ ]
If Yes, ID: AD-015

Jurisdictional Connectivity/Supplemental Comments:

Flows South off of ROC into residential area

FISHER ASSOCIATES

Stream Data Form

Stream Field ID: **Stream** 004

Data Point ID: DP- 023 Date: 8/12/19 Project #: 190176

Project Name: NG Batavia-Lockport Article VII

Evaluator(s): James Ireland

County: Niagara County State: New York

Stream Name: Unnamed Tributary to Mud Creek

State Classified: Yes [ ] No [X] Not Applicable [ ]

If Yes, Classification: N/A

Lat: 43.141015 Long: -78.649941

Hydrologic Characteristics

Flow Regime: Perennial [X] Intermittent [ ] Ephemeral [ ]

Surface Water: Present [X] Absent [ ]

Perceptible Flow: Present [X] Absent [ ]

Water Depth at Thalweg: 24" inches

Wetted Perimeter Width: 6' feet

Flow/Gradient Direction: South

Geomorphologic Characteristics

Primary Substrate Class: S:L

	Width (ft.)		
	at DP	Min	Max
OHWM	6'	6'	9'
Top of Bank	11'	10'	15'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:

Left: 50° - 120%

Right: 55° - 143%

Bank Stability Summary

Left: Stable - Vegetated Banks

Right: Same as above

FISHER ASSOCIATES

Stream Data Form

Data Point ID: DP- 023

Habitat Characteristics

Aquatic Vegetation Present: Yes [ ] No [X]
If Yes, Describe:

Aquatic Organisms Observed: Yes [ ] No [X]
If Yes, Describe:

Terrestrial Organisms Observed: Yes [ ] No [X]
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: ROW - 0'-150' - Meadowsweet, G. Goldenrod, Reed Canary, Queen Ann's

Right: Successional Scrub

Associated Wetland Present: Yes [ ] No [X]
If Yes, ID:

Associated Artificial Drain Present: Yes [X] No [ ]
If Yes, ID: AD-017

Jurisdictional Connectivity/Supplemental Comments:

Drainage way for nearby ag fields flows south off PSC

FISHER ASSOCIATES

Stream Data Form

Stream Field ID: Stream 005

Data Point ID: DP- 028 Date: 8/13/19 Project #: 190176

Project Name: NG Batavia-Lockport Article VII

Evaluator(s): James Ireland

County: Niagara State: New York

Stream Name: Unnamed Tributary to Mud Creek

State Classified: Yes [ ] No [X] Not Applicable [ ]

If Yes, Classification: N/A

Lat: 43.140264 Long: -78.635389

Hydrologic Characteristics

Flow Regime: Perennial [ ] Intermittent [X] Ephemeral [ ]

Surface Water: Present [ ] Absent [X]

Perceptible Flow: Present [ ] Absent [X]

Water Depth at Thalweg: 0" inches

Wetted Perimeter Width: 0' feet

Flow/Gradient Direction: North/West

Geomorphologic Characteristics

Primary Substrate Class: S:L

	Width (ft.)		
	at DP	Min	Max
OHWM	4'	4'	5'
Top of Bank	10'	8'	12'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:

Left: 35° - 70%

Right: 40° - 84%

Bank Stability Summary

Left: Stable - Vegetated Banks

Right: Same as above

FISHER ASSOCIATES

Stream Data Form

Data Point ID: DP- 028

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-150'- Upland ROW, Spotted Knapweed, Queen Ann's, Sweet clover

Right: Same as above.

Associated Wetland Present: Yes ☐ No ☒
If Yes, ID:

Associated Artificial Drain Present: Yes ☐ No ☒
If Yes, ID:

Jurisdictional Connectivity/Supplemental Comments:

Ran west along the PSL, ran North out of PSL

FISHER ASSOCIATES

Stream Data Form

Stream Field ID: Stream 006

Data Point ID: DP- 036 Date: 8/13/19 Project #: 190174

Project Name: NG Batavia -Lockport Article VII

Evaluator(s): Jimmy Ireland

County: Niagara County State: NY

Stream Name: Unnamed Tributary to Mud Creek

State Classified: Yes [ ] No [X] Not Applicable [ ]

If Yes, Classification: N/A

Lat: 43.140476 Long: -78.622519

Hydrologic Characteristics

Flow Regime: Perennial [ ] Intermittent [X] Ephemeral [ ]

Surface Water: Present [X] Absent [ ]

Perceptible Flow: Present [ ] Absent [X]

Water Depth at Thalweg: 4" inches

Wetted Perimeter Width: 4' 8 feet

Flow/Gradient Direction: North

Geomorphologic Characteristics

Primary Substrate Class: S:L

	Width (ft.)		
	at DP	Min	Max
OHWM	4'	4'	6'
Top of Bank	8'	7'	8'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:

Left: 40° - 84%

Right: 40° - 84%

Bank Stability Summary

Left: Stable - Vegetated banks

Right: Same as above

FISHER ASSOCIATES

Stream Data Form

Data Point ID: DP- 036

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-150'. ROW-Upland, Queen Anne's lace, flatleaf GR, P. Loose, Cutleaf teasel

Right: Same as above

Associated Wetland Present: Yes ☒ No ☐
If Yes, ID: WL-012

Associated Artificial Drain Present: Yes ☐ No ☒
If Yes, ID:

Jurisdictional Connectivity/Supplemental Comments:

Drainage channel that flows from neighborhood to the north.

FISHER ASSOCIATES

Stream Data Form

Stream Field ID: Stream 007

Data Point ID: DP- 056 Date: 8/14/19 Project #: 190176

Project Name: NG Batavia-Lockport Article VII

Evaluator(s): James Ireland

County: Niagara State: New York

Stream Name: Mud Creek & Tributaries

State Classified: Yes [X] No [ ] Not Applicable [ ]

If Yes, Classification: C

Lat: 43.139999 Long: -78.588556

Hydrologic Characteristics

Flow Regime: Perennial [ ] Intermittent [X] Ephemeral [ ]

Surface Water: Present [ ] Absent [X]

Perceptible Flow: Present [ ] Absent [X]

Water Depth at Thalweg: 0" inches

Wetted Perimeter Width: 0' feet

Flow/Gradient Direction: North

Geomorphologic Characteristics

Primary Substrate Class: S;LC

	Width (ft.)		
	at DP	Min	Max
OHWM	5'	2'	5'
Top of Bank	15'	8'	15'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:

Left: 50° - 120%

Right: 55° - 143%

Bank Stability Summary

Left: Stable - Vegetated Banks

Right: Same as above

FISHER ASSOCIATES

Stream Data Form

Data Point ID: DP- 056

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-150' - Wetland 018 - Phragmites, Broad, Cattail, dogwood, swal meadow, Alder

Right: Same as above.

Associated Wetland Present: Yes ☒ No ☐
If Yes, ID: WL-018

Associated Artificial Drain Present: Yes ☐ No ☒
If Yes, ID:

Jurisdictional Connectivity/Supplemental Comments:

Flows North into DEC wetland GA-21

FISHER ASSOCIATES

Stream Data Form

Stream Field ID: Stream 008
Data Point ID: DP- 063 Date: 8/19/19 Project #: 190176
Project Name: NG Batavia-Lockport Article VII
Evaluator(s): James Ireland
County: Niagara State: New York
Stream Name: Mud Creek & Tributaries
State Classified: Yes [X] No [ ] Not Applicable [ ]
If Yes, Classification: C
Lat: 43.139879 Long: -78.554096

Hydrologic Characteristics

Flow Regime: Perennial [ ] Intermittent [X] Ephemeral [ ]
Surface Water: Present [ ] Absent [ ]
Perceptible Flow: Present [ ] Absent [ ]
Water Depth at Thalweg: 2" inches
Wetted Perimeter Width: 3' feet
Flow/Gradient Direction: North

Geomorphologic Characteristics

Primary Substrate Class: S:C

	Width (ft.)		
	at DP	Min	Max
OHWM	3'	2'	5'
Top of Bank	10'	7'	11'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 55' - 143%
Right: 30' - 58%

Bank Stability Summary

Left: Stable - Vegetated Banks

Right: Same as above

FISHER ASSOCIATES

Stream Data Form

Data Point ID: DP- 063

Habitat Characteristics

Aquatic Vegetation Present: Yes [ ] No [X]
If Yes, Describe:

Aquatic Organisms Observed: Yes [ ] No [X]
If Yes, Describe:

Terrestrial Organisms Observed: Yes [ ] No [X]
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-150' - Wetland 019

Right: 0'-150' - Wetland 020

Associated Wetland Present: Yes [X] No [ ]
If Yes, ID: Wetland 019 + 020

Associated Artificial Drain Present: Yes [Y] No [ ]
If Yes, ID: AD-034

Jurisdictional Connectivity/Supplemental Comments:

Flows from DEC wetland GA-6 to the southeast PSC

FISHER ASSOCIATES

Stream Data Form

Stream Field ID: **Stream** 009

Data Point ID: DP-089 Date: 8/23/19 Project #: 190176

Project Name: NG Batavia-Lockport Article VII

Evaluator(s): James Ireland

County: Genesee State: New York

Stream Name: Mud Creek & Tributaries

State Classified: Yes [X] No [ ] Not Applicable [ ]

If Yes, Classification: C

Lat: 43.118732 Long: -78.452947

Hydrologic Characteristics

Flow Regime: Perennial [X] Intermittent [ ] Ephemeral [ ]

Surface Water: Present [X] Absent [ ]

Perceptible Flow: Present [X] Absent [ ]

Water Depth at Thalweg: 3" inches

Wetted Perimeter Width: 10' feet

Flow/Gradient Direction: East

Geomorphologic Characteristics

Primary Substrate Class: S; L

	Width (ft.)		
	at DP	Min	Max
OHWM	10'	10'	10'
Top of Bank	20'	20'	20'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:

Left: 40° - 84%

Right: 35° - 70%

Bank Stability Summary

Left: 80% - Vegetated Banks

Right: Some erosion

FISHER ASSOCIATES

Stream Data Form

Data Point ID: DP- 084

Habitat Characteristics

Aquatic Vegetation Present: Yes [ ] No [x]
If Yes, Describe:

Aquatic Organisms Observed: Yes [ ] No [x]
If Yes, Describe:

Terrestrial Organisms Observed: Yes [ ] No [x]
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):
Left: 0'-150' - Berm /Wetland

Right: Same as above

Associated Wetland Present: Yes [x] No [ ]
If Yes, ID: WL-023

Associated Artificial Drain Present: Yes [ ] No [x]
If Yes, ID:

Jurisdictional Connectivity/Supplemental Comments:

Runs through wetland 023 which is in the TWMA.

FISHER ASSOCIATES

Stream Data Form

Stream Field ID: Stream 010
Data Point ID: DP-094 Date: 10/2/19 Project #: 190176
Project Name: NG Batavia -Lockport Article VII
Evaluator(s): Jimmy Ireland
County: Genesee County State: NY
Stream Name: Red Creek & Tributaries
State Classified: Yes [X] No [ ] Not Applicable [ ]
If Yes, Classification: C
Lat: 43.136007 Long: -78.480358

Hydrologic Characteristics

Flow Regime: Perennial [X] Intermittent [ ] Ephemeral [ ]
Surface Water: Present [X] Absent [ ]
Perceptible Flow: Present [X] Absent [ ]
Water Depth at Thalweg: 3' inches
Wetted Perimeter Width: 26' feet
Flow/Gradient Direction: East

Geomorphologic Characteristics

Primary Substrate Class: S:L

	Width (ft.)		
	at DP	Min	Max
OHWM	20'	2'	20'
Top of Bank	25'	25'	25'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 40° - 84%
Right: 40° - 84%

Bank Stability Summary

Left: Unstable. Eroded undercut banks
Right: Same as above

FISHER ASSOCIATES

Stream Data Form

Data Point ID: DP- 094

Habitat Characteristics

Aquatic Vegetation Present: Yes [ ] No [X]
If Yes, Describe:

Aquatic Organisms Observed: Yes [ ] No [X]
If Yes, Describe:

Terrestrial Organisms Observed: Yes [ ] No [X]
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-150'- Ag Field Hay

Right: Same above.

Associated Wetland Present: Yes [ ] No [X]
If Yes, ID:

Associated Artificial Drain Present: Yes [X] No [ ]
If Yes, ID: AD-053

Jurisdictional Connectivity/Supplemental Comments:

Drainage through Ag field, flows to east in DEC wetland.

APPENDIX C
WATERCOURSE DATA FORMS - DITCHES

FISHER ASSOCIATES

Ditch Data Form

Ditch Field ID: Ditch 001
Data Point ID: DP- 015 Date: 8/8/19
Project Name: NG Batavia-Lockport Article VII Project #: 190176
Evaluator(s): James Ireland
County: Niagara County State: New York
Jurisdictional: Yes ☐ No ☒
Lat: 43.142057 Long: -78.683420

Jurisdictional Determination Criteria		
Yes	**No**	**Jurisdictional Attribute**
X		1) Meets the USACE Definition of a Tributary "a water that contributes flow, either directly or through another water (including an impoundment) to a water that is characterized by the presence of the physical indicators of a bed and bank, and an ordinary high water mark"
		2) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	X	a) Has Perennial Flow;
	X	b) Has Intermittent Flow and is a Relocated Tributary;
	X	c) Has Intermittent Flow and is Excavated in a Tributary;
	X	d) Has Intermittent Flow and Drains Natural Water Bodies (including wetlands);
	X	e) Has Ephemeral Flow and is Excavated in or Relocated within a Tributary.

Hydrologic Characteristics

Flow Regime: Perennial ☐ Intermittent ☒ Ephemeral ☐
Surface Water: Present ☐ Absent ☒
Perceptible Flow: Present ☐ Absent ☒
Water Depth at Thalweg: 0" inches
Wetted Perimeter Width: 0" feet
Flow/Gradient Direction: East

Geomorphologic Characteristics

Primary Substrate Class: S;L

	Width (feet)		
	at DP	Min	Max
OHWM	2"	2'	2'
Top of Bank	2'	2'	2'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 30° - 58%
Right: 35° - 70%

FISHER ASSOCIATES

Ditch Data Form

Data Point ID: DP- 015

Bank Stability Summary

Left Bank: Small - Vegetated Banks.

Right Bank:

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-150' - ROW - C. Goldenrod, P. Loosestrife, Teasel,

Right: 0'-150' - Residential Yard

Associated Wetland Present: Yes ☒ No ☐
If Yes, ID: WL-008

Associated Artificial Drain(s) Present: Yes ☒ No ☐
If Yes, ID: AD 004, AD-005

Supplemental Notes & Comments:

No perennial ditch that flows through PSL. Runs under culvert road and PSL

FISHER ASSOCIATES

Ditch Data Form

Ditch Field ID: Ditch 002
Data Point ID: DP- 01U — Date: 8/8/19
Project Name: NG Batavia-Lockport Article VII — Project #: 190176
Evaluator(s): James Ireland
County: Niagara County — State: New York
Jurisdictional: Yes [ ] No [X]
Lat: 43.141986 — Long: -78.679701

Jurisdictional Determination Criteria		
Yes	**No**	**Jurisdictional Attribute**
X		1) Meets the USACE Definition of a Tributary "a water that contributes flow, either directly or through another water (including an impoundment) to a water that is characterized by the presence of the physical indicators of a bed and bank, and an ordinary high water mark"
		2) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	X	a) Has Perennial Flow;
	X	b) Has Intermittent Flow and is a Relocated Tributary;
	X	c) Has Intermittent Flow and is Excavated in a Tributary;
	X	d) Has Intermittent Flow and Drains Natural Water Bodies (including wetlands);
	X	e) Has Ephemeral Flow and is Excavated in or Relocated within a Tributary.

Hydrologic Characteristics

Flow Regime: Perennial [ ] Intermittent [ ] Ephemeral [X]
Surface Water: Present [ ] Absent [X]
Perceptible Flow: Present [ ] Absent [X]
Water Depth at Thalweg: 0" inches
Wetted Perimeter Width: 0" feet
Flow/Gradient Direction: South

Geomorphologic Characteristics

Primary Substrate Class: S:L

	Width (feet)		
	at DP	Min	Max
OHWM	2'	2'	2'
Top of Bank	3'	3'	3'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 30° - 58%
Right: 30° - 58%

FISHER ASSOCIATES

Ditch Data Form

Data Point ID: DP- 016

Bank Stability Summary

Left Bank: Stable - Vegetated Banks

Right Bank: Some erosive

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒ Y
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒ X
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☒ Y
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-50'- Road
50'-150'- ROW, ~~GR~~ Co Goldenrod, Thistle, S. knapweed

Right: 0'-150' - ROW - " "

Associated Wetland Present: Yes ☐ No ☒ X
If Yes, ID:

Associated Artificial Drain(s) Present: Yes ☒ X No ☐
If Yes, ID: AD-006, AD-007, AD-008

Supplemental Notes & Comments:

Non jurisdictional ditch on roadside

FISHER ASSOCIATES

Ditch Data Form

Ditch Field ID: Ditch 003
Data Point ID: DP-017 Date: 8/8/19
Project Name: NG Batavia-Lockport Article VII Project #: 190176
Evaluator(s): James Ireland
County: Niagara County State: New York
Jurisdictional: Yes ☐ No ☒

Lat: 43.142263 Long: -78.679528

Jurisdictional Determination Criteria		
Yes	**No**	**Jurisdictional Attribute**
X		1) Meets the USACE Definition of a Tributary "a water that contributes flow, either directly or through another water (including an impoundment) to a water that is characterized by the presence of the physical indicators of a bed and bank, and an ordinary high water mark"
		2) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	X	a) Has Perennial Flow;
	X	b) Has Intermittent Flow and is a Relocated Tributary;
	X	c) Has Intermittent Flow and is Excavated in a Tributary;
	X	d) Has Intermittent Flow and Drains Natural Water Bodies (including wetlands);
	X	e) Has Ephemeral Flow and is Excavated in or Relocated within a Tributary.

Hydrologic Characteristics

Flow Regime: Perennial ☐ Intermittent ☐ Ephemeral ☒
Surface Water: Present ☐ Absent ☒
Perceptible Flow: Present ☐ Absent ☒
Water Depth at Thalweg: 0" inches
Wetted Perimeter Width: 0' feet
Flow/Gradient Direction: South

Geomorphologic Characteristics

Primary Substrate Class: S:L

	Width (feet)		
	at DP	Min	Max
OHWM	2'	2'	2'
Top of Bank	2'	2'	2'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 50° - 120%
Right: 30° - 58%

FISHER ASSOCIATES

Ditch Data Form

Data Point ID: DP- 017

Bank Stability Summary

Left Bank: Stable - Vegetated Bank

Right Bank: Same as above

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: ROW - 0'-150'. S knapweed, Honeysuckle, C. Goldenrod.

Right: 0'-50' - Road
50'-150' - ROW - Same as above

Associated Wetland Present: Yes ☐ No ☒
If Yes, ID:

Associated Artificial Drain(s) Present: Yes ☒ No ☐
If Yes, ID: AD-009, 010, 011

Supplemental Notes & Comments:

Non-jurisdictional roadside ditch

FISHER ASSOCIATES

Ditch Data Form

Ditch Field ID: Ditch 004
Data Point ID: DP- 019 Date: 8/8/19
Project Name: NG Batavia-Lockport Article VII Project #: 190176
Evaluator(s): James Ireland
County: Niagara County State: New York
Jurisdictional: Yes [ ] No [X]
Lat: 43.141193 Long: -78.653575

Jurisdictional Determination Criteria		
Yes	**No**	**Jurisdictional Attribute**
X		1) Meets the USACE Definition of a Tributary "a water that contributes flow, either directly or through another water (including an impoundment) to a water that is characterized by the presence of the physical indicators of a bed and bank, and an ordinary high water mark"
		2) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	X	a) Has Perennial Flow;
	X	b) Has Intermittent Flow and is a Relocated Tributary;
	X	c) Has Intermittent Flow and is Excavated in a Tributary;
	X	d) Has Intermittent Flow and Drains Natural Water Bodies (including wetlands);
	X	e) Has Ephemeral Flow and is Excavated in or Relocated within a Tributary.

Hydrologic Characteristics

Flow Regime: Perennial [ ] Intermittent [X] Ephemeral [ ]
Surface Water: Present [X] Absent [ ]
Perceptible Flow: Present [ ] Absent [X]
Water Depth at Thalweg: 3" inches
Wetted Perimeter Width: 5' feet
Flow/Gradient Direction: South

Geomorphologic Characteristics

Primary Substrate Class: S:L

	Width (feet)		
	at DP	Min	Max
OHWM	5'	5'	5'
Top of Bank	12'	12'	12'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 45° - 100%
Right: 45° - 100%

FISHER ASSOCIATES

Ditch Data Form

Data Point ID: DP- 019

Bank Stability Summary

Left Bank: Stable- Vegetated Overgrass

Right Bank: Same as above

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-50' - Road
50'-150' - ROW - RC grass, S. Knapweed, hardock, Q. Anne's Lace

Right: 0'-150' - Same as ROW above.

Associated Wetland Present: Yes ☐ No ☒
If Yes, ID:

Associated Artificial Drain(s) Present: Yes ☒ No ☐
If Yes, ID: AD-013, AD-014

Supplemental Notes & Comments:

Non jurisdictional Roadside Ditch

FISHER ASSOCIATES

Ditch Data Form

Ditch Field ID: Ditch 005
Data Point ID: DP- 024 Date: 8/12/19
Project Name: NG Batavia-Lockport Article VII Project #: 190176
Evaluator(s): James Ireland
County: Niagara County State: New York
Jurisdictional: Yes [X] No [ ]
Lat: 43.141289 Long: -78.153389

Jurisdictional Determination Criteria		
Yes	**No**	**Jurisdictional Attribute**
X		1) Meets the USACE Definition of a Tributary "a water that contributes flow, either directly or through another water (including an impoundment) to a water that is characterized by the presence of the physical indicators of a bed and bank, and an ordinary high water mark"
		2) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
		a) Has Perennial Flow;
		b) Has Intermittent Flow and is a Relocated Tributary;
		c) Has Intermittent Flow and is Excavated in a Tributary;
X		d) Has Intermittent Flow and Drains Natural Water Bodies (including wetlands);
		e) Has Ephemeral Flow and is Excavated in or Relocated within a Tributary.

Hydrologic Characteristics

Flow Regime: Perennial [ ] Intermittent [ ] Ephemeral [X]
Surface Water: Present [ ] Absent [X]
Perceptible Flow: Present [ ] Absent [X]
Water Depth at Thalweg: 0" inches
Wetted Perimeter Width: 0' feet
Flow/Gradient Direction: North

Geomorphologic Characteristics

Primary Substrate Class:

	Width (feet)		
	at DP	Min	Max
OHWM	1'	1'	1'
Top of Bank	4'	4'	4'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 40 - 84%
Right: 40 - 84%

FISHER ASSOCIATES

Ditch Data Form

Data Point ID: DP- 024

Bank Stability Summary

Left Bank: Stable - Vegetated Banks, compact soil

Right Bank: Same as above

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-50' - Road
50'-150' ROW - Reed Canary, Sp. knapweed

Right: 0'-150' - Spotted knapweed, Reed Canary grass

Associated Wetland Present: Yes ☐ No ☒
If Yes, ID:

Associated Artificial Drain(s) Present: Yes ☒ No ☐
If Yes, ID: AD-019, AD-018

Supplemental Notes & Comments:

Connects to ST-024 outside of RSL

Jurisdictional roadside ditch

FISHER ASSOCIATES

Ditch Data Form

Ditch Field ID: Ditch 006
Data Point ID: DP- 025 Date: 8/13/19
Project Name: NG Batavia-Lockport Article VII Project #: 190176
Evaluator(s): James Ireland
County: Niagara State: New York
Jurisdictional: Yes ☐ No ☒
Lat: 43.140481 Long: -78.629175

Jurisdictional Determination Criteria		
Yes	**No**	**Jurisdictional Attribute**
X		1) Meets the USACE Definition of a Tributary "a water that contributes flow, either directly or through another water (including an impoundment) to a water that is characterized by the presence of the physical indicators of a bed and bank, and an ordinary high water mark"
		2) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	X	a) Has Perennial Flow;
	X	b) Has Intermittent Flow and is a Relocated Tributary;
	X	c) Has Intermittent Flow and is Excavated in a Tributary;
	X	d) Has Intermittent Flow and Drains Natural Water Bodies (including wetlands);
	X	e) Has Ephemeral Flow and is Excavated in or Relocated within a Tributary.

Hydrologic Characteristics

Flow Regime: Perennial ☐ Intermittent ☐ Ephemeral ☒
Surface Water: Present ☐ Absent ☒
Perceptible Flow: Present ☐ Absent ☒
Water Depth at Thalweg: 0" inches
Wetted Perimeter Width: 0' feet
Flow/Gradient Direction: South

Geomorphologic Characteristics

Primary Substrate Class: S:L

	Width (feet)		
	at DP	Min	Max
OHWM	1'	1'	2'
Top of Bank	7'	6'	10'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 25° - 46%
Right: 30° - 58%

FISHER ASSOCIATES

Ditch Data Form

Data Point ID: DP- 025

Bank Stability Summary

Left Bank: Stable - vegetated Banks

Right Bank: Same as above

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-50' - Road
50'-150' - ROW - Cattail, P. Loosestrife

Right: 0'-150' - ROW - Tussal, C. goldenrod, P. loosestrife

Associated Wetland Present: Yes ☐ No ☒
If Yes, ID:

Associated Artificial Drain(s) Present: Yes ☒ No ☐
If Yes, ID: AD-020, AD-021

Supplemental Notes & Comments:

Non-Jurisdictional roadside ditch

FISHER ASSOCIATES

Ditch Data Form

Ditch Field ID: Ditch 007
Data Point ID: DP- 033 Date: 8/13/19
Project Name: NG Batavia-Lockport Article VII Project #: 190176
Evaluator(s): James Ireland
County: Niagara County State: New York
Jurisdictional: Yes [X] No [ ]
Lat: 43.140572 Long: -78.629017

Jurisdictional Determination Criteria		
Yes	**No**	**Jurisdictional Attribute**
X		1) Meets the USACE Definition of a Tributary "a water that contributes flow, either directly or through another water (including an impoundment) to a water that is characterized by the presence of the physical indicators of a bed and bank, and an ordinary high water mark"
		2) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	X	a) Has Perennial Flow;
	X	b) Has Intermittent Flow and is a Relocated Tributary;
	X	c) Has Intermittent Flow and is Excavated in a Tributary;
	X	d) Has Intermittent Flow and Drains Natural Water Bodies (including wetlands);
	X	e) Has Ephemeral Flow and is Excavated in or Relocated within a Tributary.

Hydrologic Characteristics

Flow Regime: Perennial [ ] Intermittent [ ] Ephemeral [X]
Surface Water: Present [ ] Absent [X]
Perceptible Flow: Present [ ] Absent [X]
Water Depth at Thalweg: 0" inches
Wetted Perimeter Width: 0' feet
Flow/Gradient Direction: South

Geomorphologic Characteristics

Primary Substrate Class: S:L

	Width (feet)		
	at DP	Min	Max
OHWM	2'	2'	2'
Top of Bank	5'	5'	5'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 25° - 47%
Right: 20° - 36%

FISHER ASSOCIATES

Ditch Data Form

Data Point ID: DP- 033

Bank Stability Summary

Left Bank: Stable - Vegetated Banks

Right Bank: Same as above.

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-150' - WL-013 - Purple Loosestrife, Flat top GR, Cattail grass / WL-Cattail

Right: Same as above

Associated Wetland Present: Yes ☒ No ☐
If Yes, ID: WL-012

Associated Artificial Drain(s) Present: Yes ☒ No ☐
If Yes, ID: AD-024, AD-25

Supplemental Notes & Comments:

Non jurisdictional Roadside ditch

FISHER ASSOCIATES

Ditch Data Form

Ditch Field ID: Ditch 008
Data Point ID: DP-037 Date: 8/14/19
Project Name: NG Batavia-Lockport Article VII Project #: 190176
Evaluator(s): James Ireland
County: Niagara County State: New York
Jurisdictional: Yes ☐ No ☒
Lat: 43.140114 Long: -78.619746

Jurisdictional Determination Criteria		
Yes	**No**	**Jurisdictional Attribute**
X		1) Meets the USACE Definition of a Tributary "a water that contributes flow, either directly or through another water (including an impoundment) to a water that is characterized by the presence of the physical indicators of a bed and bank, and an ordinary high water mark"
		2) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	X	a) Has Perennial Flow;
	X	b) Has Intermittent Flow and is a Relocated Tributary;
	X	c) Has Intermittent Flow and is Excavated in a Tributary;
	X	d) Has Intermittent Flow and Drains Natural Water Bodies (including wetlands);
	X	e) Has Ephemeral Flow and is Excavated in or Relocated within a Tributary.

Hydrologic Characteristics

Flow Regime: Perennial ☐ Intermittent ☐ Ephemeral ☒
Surface Water: Present ☒ Absent ☐
Perceptible Flow: Present ☐ Absent ☒
Water Depth at Thalweg: .5" inches
Wetted Perimeter Width: 2' feet
Flow/Gradient Direction: S.W

Geomorphologic Characteristics

Primary Substrate Class: S.L.C

	Width (feet)		
	at DP	Min	Max
OHWM	2'	2'	3'
Top of Bank	~5'	5'	6'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 35° - 70%
Right: 30° - 58%

FISHER ASSOCIATES

Ditch Data Form

Data Point ID: DP-037

Bank Stability Summary

Left Bank: Stable - Vegetated Banks

Right Bank: Same as above.

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-50'- Road
50'-150'- ROW- Hay that has been mowed

Right: 0'-150'- ROW- Hay, at least once, M. Mowed

Associated Wetland Present: Yes ☐ No ☒
If Yes, ID:

Associated Artificial Drain(s) Present: Yes ☒ No ☐
If Yes, ID: AD-006

Supplemental Notes & Comments:

Non jurisdictional roadside ditch.

FISHER ASSOCIATES

Ditch Data Form

Ditch Field ID: Ditch OCA
Data Point ID: DP- 042 Date: 8/14/19
Project Name: NG Batavia-Lockport Article VII Project #: 190176
Evaluator(s): James Ireland
County: Niagara County State: New York
Jurisdictional: Yes ☐ No ☒
Lat: 43.140383 Long: -78.619685

Jurisdictional Determination Criteria		
Yes	**No**	**Jurisdictional Attribute**
X		1) Meets the USACE Definition of a Tributary "a water that contributes flow, either directly or through another water (including an impoundment) to a water that is characterized by the presence of the physical indicators of a bed and bank, and an ordinary high water mark"
		2) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	X	a) Has Perennial Flow;
	X	b) Has Intermittent Flow and is a Relocated Tributary;
	X	c) Has Intermittent Flow and is Excavated in a Tributary;
	X	d) Has Intermittent Flow and Drains Natural Water Bodies (including wetlands);
	X	e) Has Ephemeral Flow and is Excavated in or Relocated within a Tributary.

Hydrologic Characteristics

Flow Regime: Perennial ☐ Intermittent ☐ Ephemeral ☒
Surface Water: Present ☐ Absent ☒
Perceptible Flow: Present ☐ Absent ☒
Water Depth at Thalweg: 0" inches
Wetted Perimeter Width: 0' feet
Flow/Gradient Direction: North

Geomorphologic Characteristics

Primary Substrate Class: S:LC

	Width (feet)		
	at DP	Min	Max
OHWM	2'	2'	2'
Top of Bank	5'	5'	6'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 400 - 84%
Right: 30° - 58%

FISHER ASSOCIATES

Ditch Data Form

Data Point ID: DP- 042

Bank Stability Summary

Left Bank: Stable - Vegetated Banks

Right Bank: Same as above

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-50' - Road
50'-150' - ROW - Milkweed, Queen Anne's, Hay

Right: 0'-150' - ROW, cattail, Hay, Milkweed

Associated Wetland Present: Yes ☐ No ☒
If Yes, ID:

Associated Artificial Drain(s) Present: Yes ☒ No ☐
If Yes, ID: AD-27

Supplemental Notes & Comments:

Non jurisdictional roadside ditch.

FISHER ASSOCIATES

Ditch Data Form

Ditch Field ID: Ditch G10
Data Point ID: DP- 0493 Date: 8/14/19
Project Name: NG Batavia-Lockport Article VII Project #: 190176
Evaluator(s): James Ireland
County: Niagara County State: New York
Jurisdictional: Yes [X] No [ ]
Lat: 43.140505 Long: -78.609401

Jurisdictional Determination Criteria		
Yes	**No**	**Jurisdictional Attribute**
X		1) Meets the USACE Definition of a Tributary "a water that contributes flow, either directly or through another water (including an impoundment) to a water that is characterized by the presence of the physical indicators of a bed and bank, and an ordinary high water mark"
		2) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	X	a) Has Perennial Flow;
	X	b) Has Intermittent Flow and is a Relocated Tributary;
	X	c) Has Intermittent Flow and is Excavated in a Tributary;
X		d) Has Intermittent Flow and Drains Natural Water Bodies (including wetlands);
	X	e) Has Ephemeral Flow and is Excavated in or Relocated within a Tributary.

Hydrologic Characteristics

Flow Regime: Perennial [ ] Intermittent [X] Ephemeral [ ]
Surface Water: Present [ ] Absent [X]
Perceptible Flow: Present [ ] Absent [X]
Water Depth at Thalweg: 0" inches
Wetted Perimeter Width: 0' feet
Flow/Gradient Direction: South

Geomorphologic Characteristics

Primary Substrate Class: S:LC

	Width (feet)		
	at DP	Min	Max
OHWM	4'	3'	5'
Top of Bank	6'	5'	8'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 35° - 70%
Right: 30° - 58%

FISHER ASSOCIATES

Ditch Data Form

Data Point ID: DP- 043

Bank Stability Summary

Left Bank: Stable - Vegetated Banks

Right Bank: Same as above.

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-150' - Upland Rav - Cultural Tensal, Queen Ann's Lace, C.GR

Right: 0'-50' - Upland Rav, Bare ground
50'-150' - Wetland - Swamp milkweed, Carex spp., P. Loosestrife

Associated Wetland Present: Yes ☐ No ☒
If Yes, ID:

Associated Artificial Drain(s) Present: Yes ☐ No ☒
If Yes, ID:

Supplemental Notes & Comments:

Farm drainage ditch that flows south into DFC wetland AA

FISHER ASSOCIATES

Ditch Data Form

Ditch Field ID: Ditch OIC
Data Point ID: DP- 050 Date: 8/15/19
Project Name: NG Batavia-Lockport Article VII Project #: 190176
Evaluator(s): James Ireland
County: Niagara County State: New York
Jurisdictional: Yes [X] No [ ]
Lat: 43.140224 Long: -78.596265

Jurisdictional Determination Criteria		
Yes	**No**	**Jurisdictional Attribute**
X		1) Meets the USACE Definition of a Tributary "a water that contributes flow, either directly or through another water (including an impoundment) to a water that is characterized by the presence of the physical indicators of a bed and bank, and an ordinary high water mark"
		2) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	X	a) Has Perennial Flow;
	X	b) Has Intermittent Flow and is a Relocated Tributary;
	X	c) Has Intermittent Flow and is Excavated in a Tributary;
	X	d) Has Intermittent Flow and Drains Natural Water Bodies (including wetlands);
	X	e) Has Ephemeral Flow and is Excavated in or Relocated within a Tributary.

Hydrologic Characteristics

Flow Regime: Perennial [ ] Intermittent [ ] Ephemeral [X]
Surface Water: Present [ ] Absent [X]
Perceptible Flow: Present [ ] Absent [X]
Water Depth at Thalweg: 0" inches
Wetted Perimeter Width: 0' feet
Flow/Gradient Direction: N/A

Geomorphologic Characteristics

Primary Substrate Class: S:C

	Width (feet)		
	at DP	Min	Max
OHWM	1'	1'	2'
Top of Bank	3'4'	4'	5'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 25° - 47%
Right: 20° - 36%

FISHER ASSOCIATES

Ditch Data Form

Data Point ID: DP- 050

Bank Stability Summary

Left Bank: Stable - Vegetated Banks

Right Bank: Same as above

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-150' - Wetland 17 - Deciduous, Bonnet, Fallen.

Right: 0'-50' - Road
50'-150' - Upland [redacted], Milkweed, QA's Lace, Canada Goldenrod

Associated Wetland Present: Yes ☒ No ☐
If Yes, ID: WL-017

Associated Artificial Drain(s) Present: Yes ☒ No ☐
If Yes, ID: AD-028

Supplemental Notes & Comments:

Non jurisdictional roadside ditch

FISHER ASSOCIATES

Ditch Data Form

Ditch Field ID: Ditch G12
Data Point ID: DP- 053 Date: 8/15/14
Project Name: NG Batavia-Lockport Article VII Project #: 190176
Evaluator(s): James Ireland
County: Niagara County State: New York
Jurisdictional: Yes ☐ No ☒
Lat: 43.139924 Long: -78.573941

Jurisdictional Determination Criteria		
Yes	**No**	**Jurisdictional Attribute**
X		1) Meets the USACE Definition of a Tributary "a water that contributes flow, either directly or through another water (including an impoundment) to a water that is characterized by the presence of the physical indicators of a bed and bank, and an ordinary high water mark"
		2) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	X	a) Has Perennial Flow;
	X	b) Has Intermittent Flow and is a Relocated Tributary;
	X	c) Has Intermittent Flow and is Excavated in a Tributary;
	X	d) Has Intermittent Flow and Drains Natural Water Bodies (including wetlands);
	X	e) Has Ephemeral Flow and is Excavated in or Relocated within a Tributary.

Hydrologic Characteristics

Flow Regime: Perennial ☐ Intermittent ☐ Ephemeral ☒
Surface Water: Present ☐ Absent ☒
Perceptible Flow: Present ☐ Absent ☒
Water Depth at Thalweg: 0" inches
Wetted Perimeter Width: 0' feet
Flow/Gradient Direction: South

Geomorphologic Characteristics

Primary Substrate Class: S.L.C

	Width (feet)		
	at DP	Min	Max
OHWM	2'	2'	3'
Top of Bank	6'	5'	7'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 30° - 58%
Right: 35° - 70%

FISHER ASSOCIATES

Ditch Data Form

Data Point ID: DP- 053

Bank Stability Summary

Left Bank: Stable - Vegetated Banks

Right Bank: Same as above.

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-50' - ROAD
50'-150' - Mowed Field

Right: 0'-150' - Open grass field

Associated Wetland Present: Yes ☐ No ☒
If Yes, ID:

Associated Artificial Drain(s) Present: Yes ☒ No ☐
If Yes, ID: AD-029

Supplemental Notes & Comments:

Non jurisdictional Roadside ditch

FISHER ASSOCIATES

Ditch Data Form

Ditch Field ID: Ditch 013
Data Point ID: DP- 057 Date: 8/16/19
Project Name: NG Batavia-Lockport Article VII Project #: 190176
Evaluator(s): James Ireland
County: Niagara County State: New York
Jurisdictional: Yes [ ] No [X]
Lat: 43.140010 Long: -78.596104

Jurisdictional Determination Criteria		
Yes	**No**	**Jurisdictional Attribute**
X		1) Meets the USACE Definition of a Tributary "a water that contributes flow, either directly or through another water (including an impoundment) to a water that is characterized by the presence of the physical indicators of a bed and bank, and an ordinary high water mark"
		2) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	X	a) Has Perennial Flow;
	X	b) Has Intermittent Flow and is a Relocated Tributary;
	X	c) Has Intermittent Flow and is Excavated in a Tributary;
	X	d) Has Intermittent Flow and Drains Natural Water Bodies (including wetlands);
	X	e) Has Ephemeral Flow and is Excavated in or Relocated within a Tributary.

Hydrologic Characteristics

Flow Regime: Perennial [ ] Intermittent [ ] Ephemeral [X]
Surface Water: Present [ ] Absent [X]
Perceptible Flow: Present [ ] Absent [X]
Water Depth at Thalweg: 0" inches
Wetted Perimeter Width: 0' feet
Flow/Gradient Direction: South

Geomorphologic Characteristics

Primary Substrate Class: S:LC

	Width (feet)		
	at DP	Min	Max
OHWM	2'	2'	3'
Top of Bank	6'	5'	7'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 35° - 70%
Right: 35° - 70%

FISHER ASSOCIATES

Ditch Data Form

Data Point ID: DP- ~~053~~ 057

Bank Stability Summary

Left Bank: Stable - Vegetated Banks

Right Bank: Same as above

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☑
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☑
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-150' - WL-018, P. loosestrife, RC grass, Rhus, boggy/wet

Right: 0'-50' - Road
50'-150' - Wetland 017, Some veg as WL-018

Associated Wetland Present: Yes ☒ No ☐
If Yes, ID: WL-018

Associated Artificial Drain(s) Present: Yes ☐ No ☐
If Yes, ID: AD-038

Supplemental Notes & Comments:

Non Jurisdictional Roadside Ditch

FISHER ASSOCIATES

Ditch Data Form

Ditch Field ID: Ditch CM
Data Point ID: DP- 058 Date: 8/10/19
Project Name: NG Batavia-Lockport Article VII Project #: 190176
Evaluator(s): James Ireland
County: Niagara County State: New York
Jurisdictional: Yes ☐ No ☒

Lat: 43.139823 Long: -78.573729

Jurisdictional Determination Criteria		
Yes	**No**	**Jurisdictional Attribute**
X		1) Meets the USACE Definition of a Tributary "a water that contributes flow, either directly or through another water (including an impoundment) to a water that is characterized by the presence of the physical indicators of a bed and bank, and an ordinary high water mark"
		2) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	X	a) Has Perennial Flow;
	X	b) Has Intermittent Flow and is a Relocated Tributary;
	X	c) Has Intermittent Flow and is Excavated in a Tributary;
	X	d) Has Intermittent Flow and Drains Natural Water Bodies (including wetlands);
	X	e) Has Ephemeral Flow and is Excavated in or Relocated within a Tributary.

Hydrologic Characteristics

Flow Regime: Perennial ☐ Intermittent ☐ Ephemeral ☒
Surface Water: Present ☐ Absent ☒
Perceptible Flow: Present ☐ Absent ☒
Water Depth at Thalweg: 0" inches
Wetted Perimeter Width: 0' feet
Flow/Gradient Direction: South

Geomorphologic Characteristics

Primary Substrate Class: Silt

	Width (feet)		
	at DP	Min	Max
OHWM	2'	2'	2'
Top of Bank	5'	5'	5'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 35° - 70%
Right: 35° - 70%

FISHER ASSOCIATES

Ditch Data Form

Data Point ID: DP-058

Bank Stability Summary

Left Bank: Stable. Vegetated Banks

Right Bank: Same as above

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-150' - Mowed Ag field

Right: 0'-50' - Road
50'-150' - Mowed Ag field

Associated Wetland Present: Yes ☐ No ☒
If Yes, ID:

Associated Artificial Drain(s) Present: Yes ☒ No ☐
If Yes, ID: AD-031

Supplemental Notes & Comments:

Non jurisdictional roadside ditch

FISHER ASSOCIATES

Ditch Data Form

Ditch Field ID: Ditch 015
Data Point ID: DP- 059 Date: 8/6/19
Project Name: NG Batavia-Lockport Article VII Project #: 190176
Evaluator(s): James Ireland
County: Niagara County State: New York
Jurisdictional: Yes [ ] No [X]
Lat: _____ Long: _____

Jurisdictional Determination Criteria		
Yes	**No**	**Jurisdictional Attribute**
X	~~X~~	1) Meets the USACE Definition of a Tributary "a water that contributes flow, either directly or through another water (including an impoundment) to a water that is characterized by the presence of the physical indicators of a bed and bank, and an ordinary high water mark"
		2) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	X	a) Has Perennial Flow;
	X	b) Has Intermittent Flow and is a Relocated Tributary;
	X	c) Has Intermittent Flow and is Excavated in a Tributary;
	X	d) Has Intermittent Flow and Drains Natural Water Bodies (including wetlands);
	X	e) Has Ephemeral Flow and is Excavated in or Relocated within a Tributary.

Hydrologic Characteristics

Flow Regime: Perennial [ ] Intermittent [ ] Ephemeral [X]
Surface Water: Present [ ] Absent [X]
Perceptible Flow: Present [ ] Absent [X]
Water Depth at Thalweg: 0" inches
Wetted Perimeter Width: 0' feet
Flow/Gradient Direction: North

Geomorphologic Characteristics

Primary Substrate Class: S:LC

	Width (feet)		
	at DP	Min	Max
OHWM	2'	2'	2'
Top of Bank	5'	5'	5'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 30° - 57%
Right: 35° - 70%

FISHER ASSOCIATES

Ditch Data Form

Data Point ID: DP- 059

Bank Stability Summary

Left Bank: Stable - Vegetated Banks

Right Bank: Same as above.

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-150' - Mowed grass field

Right: 0'-50' - Road
50'-150' - Corn

Associated Wetland Present: Yes ☐ No ☒
If Yes, ID:

Associated Artificial Drain(s) Present: Yes ☒ No ☐
If Yes, ID: AD-032

Supplemental Notes & Comments:

Non-jurisdictional Roadside ditch

FISHER ASSOCIATES

Ditch Data Form

Ditch Field ID: Ditch O16
Data Point ID: DP- 000 Date: 8/14/19
Project Name: NG Batavia-Lockport Article VII Project #: 190176
Evaluator(s): James Ireland
County: Niagara County State: New York
Jurisdictional: Yes ☐ No ☒
Lat: 43.139962 Long: -78.561464

Jurisdictional Determination Criteria		
Yes	**No**	**Jurisdictional Attribute**
X		1) Meets the USACE Definition of a Tributary "a water that contributes flow, either directly or through another water (including an impoundment) to a water that is characterized by the presence of the physical indicators of a bed and bank, and an ordinary high water mark"
		2) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	X	a) Has Perennial Flow;
	X	b) Has Intermittent Flow and is a Relocated Tributary;
	X	c) Has Intermittent Flow and is Excavated in a Tributary;
	X	d) Has Intermittent Flow and Drains Natural Water Bodies (including wetlands);
	X	e) Has Ephemeral Flow and is Excavated in or Relocated within a Tributary.

Hydrologic Characteristics

Flow Regime: Perennial ☐ Intermittent ☑ Ephemeral ☐
Surface Water: Present ☒ Absent ☐
Perceptible Flow: Present ☐ Absent ☒
Water Depth at Thalweg: 2' inches
Wetted Perimeter Width: 3' feet
Flow/Gradient Direction: N-NE

Geomorphologic Characteristics

Primary Substrate Class: Silt

	Width (feet)		
	at DP	Min	Max
OHWM	3'	2'	4'
Top of Bank	5'	5'	5'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 45° - 100%
Right: 15° - 27%

FISHER ASSOCIATES

Ditch Data Form

Data Point ID: DP- 060

Bank Stability Summary

Left Bank: Stable - Vegetated Banks

Right Bank: Same as above.

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-50' - Road
50'-150' - Ag field edge, Phragmites → Hwy

Right: 0'-150' - Cornfield

Associated Wetland Present: Yes ☐ No ☒
If Yes, ID:

Associated Artificial Drain(s) Present: Yes ☒ No ☐
If Yes, ID: AD-033

Supplemental Notes & Comments:

Non-Jurisdictional roadside ditch

FISHER ASSOCIATES

Ditch Data Form

Ditch Field ID: Ditch 017
Data Point ID: DP- 066 Date: 8/19/19
Project Name: NG Batavia-Lockport Article VII Project #: 190176
Evaluator(s): James Ireland
County: Niagara County State: New York
Jurisdictional: Yes ☐ No ☒
Lat: 43.140618 Long: -78.539273

Jurisdictional Determination Criteria		
Yes	**No**	**Jurisdictional Attribute**
X		1) Meets the USACE Definition of a Tributary "a water that contributes flow, either directly or through another water (including an impoundment) to a water that is characterized by the presence of the physical indicators of a bed and bank, and an ordinary high water mark"
		2) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	X	a) Has Perennial Flow;
	X	b) Has Intermittent Flow and is a Relocated Tributary;
	X	c) Has Intermittent Flow and is Excavated in a Tributary;
	X	d) Has Intermittent Flow and Drains Natural Water Bodies (including wetlands);
	X	e) Has Ephemeral Flow and is Excavated in or Relocated within a Tributary.

Hydrologic Characteristics

Flow Regime: Perennial ☐ Intermittent ☐ Ephemeral ☒
Surface Water: Present ☐ Absent ☒
Perceptible Flow: Present ☐ Absent ☒
Water Depth at Thalweg: 0" inches
Wetted Perimeter Width: 0' feet
Flow/Gradient Direction: North

Geomorphologic Characteristics

Primary Substrate Class: Silt

	Width (feet)		
	at DP	Min	Max
OHWM	2'	2'	2'
Top of Bank	6'	5'	6'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 30° ~58%
Right: 35° ~70%

FISHER ASSOCIATES

Ditch Data Form

Data Point ID: DP- 066

Bank Stability Summary

Left Bank: Stable - Vegetated Banks

Right Bank: Same as above

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-150'- Upland, Hwy

Right: 0'-50'- Road
50'-150'- Upland shrub, P. Lowland, C. Cottonwood

Associated Wetland Present: Yes ☐ No ☒
If Yes, ID:

Associated Artificial Drain(s) Present: Yes ☐ No ☐
If Yes, ID: AA 035'

Supplemental Notes & Comments:

Non jurisdictional Roadside ditch

FISHER ASSOCIATES

Ditch Data Form

Ditch Field ID: Ditch 018
Data Point ID: DP- 067 Date: 8/19/19
Project Name: NG Batavia-Lockport Article VII Project #: 190176
Evaluator(s): James Ireland
County: Niagara County State: New York
Jurisdictional: Yes ☐ No ☒
Lat: 43.140662 Long: -78.539049

Jurisdictional Determination Criteria		
Yes	**No**	**Jurisdictional Attribute**
X	~~X~~	1) Meets the USACE Definition of a Tributary "a water that contributes flow, either directly or through another water (including an impoundment) to a water that is characterized by the presence of the physical indicators of a bed and bank, and an ordinary high water mark"
		2) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	X	a) Has Perennial Flow;
	X	b) Has Intermittent Flow and is a Relocated Tributary;
	X	c) Has Intermittent Flow and is Excavated in a Tributary;
	X	d) Has Intermittent Flow and Drains Natural Water Bodies (including wetlands);
	X	e) Has Ephemeral Flow and is Excavated in or Relocated within a Tributary.

Hydrologic Characteristics

Flow Regime: Perennial ☐ Intermittent ☒ Ephemeral ~~☐~~
Surface Water: Present ☒ Absent ~~☐~~
Perceptible Flow: Present ☐ Absent ☒
Water Depth at Thalweg: 1" ~~0~~ inches
Wetted Perimeter Width: 2' feet
Flow/Gradient Direction: North

Geomorphologic Characteristics

Primary Substrate Class: S.L

	Width (feet)		
	at DP	Min	Max
OHWM	2'	2'	3'
Top of Bank	6'	5'	6'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 35° - 70%
Right: 40° - 84%

FISHER ASSOCIATES

Ditch Data Form

Data Point ID: DP- 007

Bank Stability Summary

Left Bank: Bluff - Vegetated Banks

Right Bank: Bare or above

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-50' - Road
50'-150' - Upland, hay

Right: 0'-95' - Upland - Shrubs - C.G Rod, p. loosestrife

Associated Wetland Present: Yes ☐ No ☒
If Yes, ID:

Associated Artificial Drain(s) Present: Yes ☒ No ☐
If Yes, ID: AD - C36

Supplemental Notes & Comments:

Non-jurisdictional roadside ditch

FISHER ASSOCIATES

Ditch Data Form

Ditch Field ID: Ditch 01A
Data Point ID: DP- 07A Date: 8/20/19
Project Name: NG Batavia-Lockport Article VII Project #: 190176
Evaluator(s): James Ireland
County: Genesse County State: New York
Jurisdictional: Yes ☐ No ☒
Lat: 43.081763 Long: -78.391305

Jurisdictional Determination Criteria		
Yes	**No**	**Jurisdictional Attribute**
X		1) Meets the USACE Definition of a Tributary "a water that contributes flow, either directly or through another water (including an impoundment) to a water that is characterized by the presence of the physical indicators of a bed and bank, and an ordinary high water mark"
		2) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	X	a) Has Perennial Flow;
	X	b) Has Intermittent Flow and is a Relocated Tributary;
	X	c) Has Intermittent Flow and is Excavated in a Tributary;
	X	d) Has Intermittent Flow and Drains Natural Water Bodies (including wetlands);
	X	e) Has Ephemeral Flow and is Excavated in or Relocated within a Tributary.

Hydrologic Characteristics

Flow Regime: Perennial ☐ Intermittent ☒ Ephemeral ☐
Surface Water: Present ☒ Absent ☐
Perceptible Flow: Present ☐ Absent ☐
Water Depth at Thalweg: 1" inches
Wetted Perimeter Width: 2' feet
Flow/Gradient Direction: South

Geomorphologic Characteristics

Primary Substrate Class: S:L

	Width (feet)		
	at DP	Min	Max
OHWM	2'	2'	2'
Top of Bank	6'	6'	6'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 30° - 58%
Right: 55° - 143%

FISHER ASSOCIATES

Ditch Data Form

Data Point ID: DP- 070

Bank Stability Summary

Left Bank: Small - Vegetated Bank

Right Bank: Same as above

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-150': Tch WLG WLNA, grass fields

Right: 0'-50': Road
50'-100': Grass fields

Associated Wetland Present: Yes ☐ No ☒
If Yes, ID:

Associated Artificial Drain(s) Present: Yes ☐ No ☐
If Yes, ID: AD-037, AD-035, AD-39

Supplemental Notes & Comments:

Non-jurisdictional roadside ditch along TWNA

FISHER ASSOCIATES

Ditch Data Form

Ditch Field ID: Ditch O20
Data Point ID: DP- 075 Date: 8/21/19
Project Name: NG Batavia-Lockport Article VII Project #: 190176
Evaluator(s): James Ireland
County: Niagara County State: New York
Jurisdictional: Yes ☐ No ☒
Lat: _____ Long: _____

Jurisdictional Determination Criteria		
Yes	**No**	**Jurisdictional Attribute**
X		1) Meets the USACE Definition of a Tributary "a water that contributes flow, either directly or through another water (including an impoundment) to a water that is characterized by the presence of the physical indicators of a bed and bank, and an ordinary high water mark"
		2) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	X	a) Has Perennial Flow;
	X	b) Has Intermittent Flow and is a Relocated Tributary;
	X	c) Has Intermittent Flow and is Excavated in a Tributary;
	X	d) Has Intermittent Flow and Drains Natural Water Bodies (including wetlands);
	X	e) Has Ephemeral Flow and is Excavated in or Relocated within a Tributary.

Hydrologic Characteristics

Flow Regime: Perennial ☐ Intermittent ☒ Ephemeral ☐
Surface Water: Present ☒ Absent ☐
Perceptible Flow: Present ☐ Absent ☒
Water Depth at Thalweg: 2" inches
Wetted Perimeter Width: 1' feet
Flow/Gradient Direction: North

Geomorphologic Characteristics

Primary Substrate Class: S:C

	Width (feet)		
	at DP	Min	Max
OHWM	2'	2'	2'
Top of Bank	4'	4'	5'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 30° - 58%
Right: 35° - 70%

FISHER ASSOCIATES

Ditch Data Form

Data Point ID: DP- C75

Bank Stability Summary

Left Bank: ~~Same as~~ Stable - Vegetated Banks

Right Bank: Same as above

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☑
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-150' - Wetland 024 - P. forested, Phrag

Right: 0'-50'- Road
50'-150' Mowed grass ROW

Associated Wetland Present: Yes ☒ No ☐
If Yes, ID: WL-024

Associated Artificial Drain(s) Present: Yes ☒ No ☐
If Yes, ID: AD-041

Supplemental Notes & Comments:

Non jurisdictional Roadside ditch

FISHER ASSOCIATES

Ditch Data Form

Ditch Field ID: Ditch 021
Data Point ID: DP- 078 Date: 8/21/19
Project Name: NG Batavia-Lockport Article VII Project #: 190176
Evaluator(s): James Ireland
County: Niagara County State: New York
Jurisdictional: Yes ☐ No ☒

Lat: 43.142652 Long: -78.524372

Jurisdictional Determination Criteria		
Yes	**No**	**Jurisdictional Attribute**
X		1) Meets the USACE Definition of a Tributary "a water that contributes flow, either directly or through another water (including an impoundment) to a water that is characterized by the presence of the physical indicators of a bed and bank, and an ordinary high water mark"
		2) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	X	a) Has Perennial Flow;
	X	b) Has Intermittent Flow and is a Relocated Tributary;
	X	c) Has Intermittent Flow and is Excavated in a Tributary;
	X	d) Has Intermittent Flow and Drains Natural Water Bodies (including wetlands);
	X	e) Has Ephemeral Flow and is Excavated in or Relocated within a Tributary.

Hydrologic Characteristics

Flow Regime: Perennial ☐ Intermittent ☐ Ephemeral ☒
Surface Water: Present ☐ Absent ☒
Perceptible Flow: Present ☐ Absent ☒
Water Depth at Thalweg: 0' inches
Wetted Perimeter Width: 0' feet
Flow/Gradient Direction: N/A

Geomorphologic Characteristics

Primary Substrate Class: S:LC

	Width (feet)		
	at DP	Min	Max
OHWM	2'	2'	2'
Top of Bank	4'	4'	5'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 35° - 70%
Right: 35° - 70%

FISHER ASSOCIATES

Ditch Data Form

Data Point ID: DP- 078

Bank Stability Summary

Left Bank: Stable - Vegetated Banks

Right Bank: Same as above

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-50' - Roads.
50'-150' - Wetland 029

Right: 0'-150' - Paved ROW

Associated Wetland Present: Yes ☐ No ☒
If Yes, ID:

Associated Artificial Drain(s) Present: Yes ☒ No ☐
If Yes, ID: AD-042

Supplemental Notes & Comments:

Non Jurisdictional Roadside Ditch

FISHER ASSOCIATES

Ditch Data Form

Ditch Field ID: Ditch 07
Data Point ID: DP- 079 Date: 8/21/19
Project Name: NG Batavia-Lockport Article VII Project #: 190176
Evaluator(s): James Ireland
County: Niagara County State: New York
Jurisdictional: Yes ☐ No ☒
Lat: 43.144212 Long: -78.514587

Jurisdictional Determination Criteria		
Yes	**No**	**Jurisdictional Attribute**
X		1) Meets the USACE Definition of a Tributary "a water that contributes flow, either directly or through another water (including an impoundment) to a water that is characterized by the presence of the physical indicators of a bed and bank, and an ordinary high water mark"
		2) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	X	a) Has Perennial Flow;
	X	b) Has Intermittent Flow and is a Relocated Tributary;
	X	c) Has Intermittent Flow and is Excavated in a Tributary;
	X	d) Has Intermittent Flow and Drains Natural Water Bodies (including wetlands);
	X	e) Has Ephemeral Flow and is Excavated in or Relocated within a Tributary.

Hydrologic Characteristics

Flow Regime: Perennial ☐ Intermittent ☒ Ephemeral ☐
Surface Water: Present ☒ Absent ☐
Perceptible Flow: Present ☐ Absent ☒
Water Depth at Thalweg: 3" inches
Wetted Perimeter Width: 2' feet
Flow/Gradient Direction: North

Geomorphologic Characteristics

Primary Substrate Class: S;LC

	Width (feet)		
	at DP	Min	Max
OHWM	2'	2'	3'
Top of Bank	4'	4'	5'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 20° - 36%
Right: 15° - 27%

FISHER ASSOCIATES

Ditch Data Form

Data Point ID: DP- 079

Bank Stability Summary

Left Bank: Vegetated Bank - Stable

Right Bank: Same as above

Habitat Characteristics

Aquatic Vegetation Present: Yes [ ] No [X]
If Yes, Describe:

Aquatic Organisms Observed: Yes [ ] No [X]
If Yes, Describe:

Terrestrial Organisms Observed: Yes [ ] No [X]
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-150'- Upland, ROW, P. Lawnstile, C. Goldenrod, Teasel

Right: 0'-50'- Road
50'-150'- Upland ROW, Same as above

Associated Wetland Present: Yes [ ] No [X]
If Yes, ID:

Associated Artificial Drain(s) Present: Yes [X] No [ ]
If Yes, ID: AD-042

Supplemental Notes & Comments:

Non jurisdictional Roadside Ditch

FISHER ASSOCIATES

Ditch Data Form

Ditch Field ID: Ditch 023
Data Point ID: DP- 092 Date: 9/30/19
Project Name: NG Batavia-Lockport Article VII Project #: 190176
Evaluator(s): James Ireland
County: Genesee County State: New York
Jurisdictional: Yes ☐ No ☒
Lat: 43.074245 Long: -78.379684

Jurisdictional Determination Criteria		
Yes	**No**	**Jurisdictional Attribute**
X		1) Meets the USACE Definition of a Tributary "a water that contributes flow, either directly or through another water (including an impoundment) to a water that is characterized by the presence of the physical indicators of a bed and bank, and an ordinary high water mark"
		2) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	X	a) Has Perennial Flow;
	X	b) Has Intermittent Flow and is a Relocated Tributary;
	X	c) Has Intermittent Flow and is Excavated in a Tributary;
	X	d) Has Intermittent Flow and Drains Natural Water Bodies (including wetlands);
	X	e) Has Ephemeral Flow and is Excavated in or Relocated within a Tributary.

Hydrologic Characteristics

Flow Regime: Perennial ☐ Intermittent ☐ Ephemeral ☒
Surface Water: Present ☒ Absent ☐
Perceptible Flow: Present ☐ Absent ☒
Water Depth at Thalweg: 2" inches
Wetted Perimeter Width: 3' feet
Flow/Gradient Direction: West

Geomorphologic Characteristics

Primary Substrate Class: S:L

	Width (feet)		
	at DP	Min	Max
OHWM	13'	13'	11'
Top of Bank	5 3/4'	5 3/4'	5 3/4'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 35° - 70%
Right: 45° - 100%

FISHER ASSOCIATES

Ditch Data Form

Data Point ID: DP- 092

Bank Stability Summary

Left Bank: Stable - Vegetated Banks

Right Bank: Some erosion

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☑
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-150' - Mowed ~~fields~~ residential yard

Right: 0'-50' - Road
50'-150' - SW WMA, Cattails

Associated Wetland Present: Yes ☐ No ☒
If Yes, ID:

Associated Artificial Drain(s) Present: Yes ☐ No ☒
If Yes, ID:

Supplemental Notes & Comments:

Non Jurisdictional Roadside ditch

FISHER ASSOCIATES

Ditch Data Form

Ditch Field ID: Ditch 027
Data Point ID: DP- 093 Date: 10/2/19
Project Name: NG Batavia-Lockport Article VII Project #: 190176
Evaluator(s): James Ireland
County: Genesse County State: New York
Jurisdictional: Yes ☐ No ☒
Lat: 43.140670 Long: -78.488019

Jurisdictional Determination Criteria		
Yes	**No**	**Jurisdictional Attribute**
X		1) Meets the USACE Definition of a Tributary "a water that contributes flow, either directly or through another water (including an impoundment) to a water that is characterized by the presence of the physical indicators of a bed and bank, and an ordinary high water mark"
		2) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	X	a) Has Perennial Flow;
	X	b) Has Intermittent Flow and is a Relocated Tributary;
	X	c) Has Intermittent Flow and is Excavated in a Tributary;
	X	d) Has Intermittent Flow and Drains Natural Water Bodies (including wetlands);
	X	e) Has Ephemeral Flow and is Excavated in or Relocated within a Tributary.

Hydrologic Characteristics

Flow Regime: Perennial ☐ Intermittent ☐ Ephemeral ☒
Surface Water: Present ☒ Absent ☐
Perceptible Flow: Present ☐ Absent ☒
Water Depth at Thalweg: 2" inches
Wetted Perimeter Width: 1' feet
Flow/Gradient Direction: South

Geomorphologic Characteristics

Primary Substrate Class: S:L

	Width (feet)		
	at DP	Min	Max
OHWM	1'	1'	1'
Top of Bank	4'	4'	4'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 10° - 18%
Right: 10° - 18%

FISHER ASSOCIATES

Ditch Data Form

Data Point ID: DP- 093

Bank Stability Summary

Left Bank: Stable - Vegetated Banks

Right Bank: Same as above

Habitat Characteristics

Aquatic Vegetation Present: Yes ☐ No ☒
If Yes, Describe:

Aquatic Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Terrestrial Organisms Observed: Yes ☐ No ☒
If Yes, Describe:

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):
Left: 0'-150' - Mowed Ag Field - Hwy

Right: Same as above.

Associated Wetland Present: Yes ☐ No ☒
If Yes, ID:

Associated Artificial Drain(s) Present: Yes ☐ No ☒
If Yes, ID:

Supplemental Notes & Comments:

Ag field drainage Ditch, flows south of PSL.

APPENDIX D
REPRESENTATIVE SITE PHOTOGRAPHS

REPRESENTATIVE SITE PHOTOGRAPHS

Project Name:	Site Location:	Project No.
Niagara Mohawk Power Corporation (d/b/a National Grid) Lockport-Batavia #112 Rebuild Project Wetland and Watercourse Delineation Report	Towns of Lockport and Royalton, Niagara County and Town of Alabama, Genesee County, New York	190176

Photo No. 1

Facing North

Description:

Data Point 001

Data Point for upland/dryland adjacent to Wetland 001.

Photo No. 2

Facing South

Description:

Data Point 001

Overview of upland/dryland adjacent to Wetland 001.

FISHER ASSOCIATES

REPRESENTATIVE SITE PHOTOGRAPHS

Project Name:	Site Location:	Project No.
Niagara Mohawk Power Corporation (d/b/a National Grid) Lockport-Batavia #112 Rebuild Project Wetland and Watercourse Delineation Report	Towns of Lockport and Royalton, Niagara County and Town of Alabama, Genesee County, New York	190176

Photo No. 3

Facing North

Description:

Data Point 002

PEM Data Point for Wetland 001.

Photo No. 4

Facing North

Description:

Data Point 002

Overview of PEM Wetland 001.

REPRESENTATIVE SITE PHOTOGRAPHS

Project Name:	Site Location:	Project No.
Niagara Mohawk Power Corporation (d/b/a National Grid) Lockport-Batavia #112 Rebuild Project Wetland and Watercourse Delineation Report	Towns of Lockport and Royalton, Niagara County and Town of Alabama, Genesee County, New York	190176

Photo No. 5

Facing North

Description:

Data Point 003

Data Point for upland/dryland adjacent to Wetland 002.

Photo No. 6

Facing North

Description:

Data Point 003

Overview of upland/dryland adjacent to Wetland 002.

FISHER ASSOCIATES

REPRESENTATIVE SITE PHOTOGRAPHS

Project Name:	Site Location:	Project No.
Niagara Mohawk Power Corporation (d/b/a National Grid) Lockport-Batavia #112 Rebuild Project Wetland and Watercourse Delineation Report	Towns of Lockport and Royalton, Niagara County and Town of Alabama, Genesee County, New York	190176

Photo No. 7

Facing North

Description:

Data Point 004

PEM Data Point for Wetland 002.

Photo No. 8

Facing North

Description:

Data Point 004

Overview of PEM Wetland 002.

REPRESENTATIVE SITE PHOTOGRAPHS

Project Name:	Site Location:	Project No.
Niagara Mohawk Power Corporation (d/b/a National Grid) Lockport-Batavia #112 Rebuild Project Wetland and Watercourse Delineation Report	Towns of Lockport and Royalton, Niagara County and Town of Alabama, Genesee County, New York	190176

Photo No. 9

Facing North

Description:

Data Point 006

PEM Data Point for Wetland 003.

Photo No. 10

Facing North

Description:

Data Point 006

Overview of PEM Wetland 003.

FISHER ASSOCIATES

REPRESENTATIVE SITE PHOTOGRAPHS

Project Name:	**Site Location:**	**Project No.**
Niagara Mohawk Power Corporation (d/b/a National Grid) Lockport-Batavia #112 Rebuild Project Wetland and Watercourse Delineation Report	Towns of Lockport and Royalton, Niagara County and Town of Alabama, Genesee County, New York	190176

Photo No. 11

Facing North

Description:

Data Point 007

Data Point for upland/dryland adjacent to Wetland 003.

Photo No. 12

Facing North

Description:

Data Point 007

Overview of upland/dryland adjacent to Wetland 003.

FISHER ASSOCIATES

REPRESENTATIVE SITE PHOTOGRAPHS

Project Name:	Site Location:	Project No.
Niagara Mohawk Power Corporation (d/b/a National Grid) Lockport-Batavia #112 Rebuild Project Wetland and Watercourse Delineation Report	Towns of Lockport and Royalton, Niagara County and Town of Alabama, Genesee County, New York	190176

Photo No. 13

Facing North

Description:

Data Point 008

PEM Data Point for Wetland 004.

Photo No. 14

Facing North

Description:

Data Point 008

Overview of PEM Wetland 004.

FISHER ASSOCIATES

REPRESENTATIVE SITE PHOTOGRAPHS

Project Name:	Site Location:	Project No.
Niagara Mohawk Power Corporation (d/b/a National Grid) Lockport-Batavia #112 Rebuild Project Wetland and Watercourse Delineation Report	Towns of Lockport and Royalton, Niagara County and Town of Alabama, Genesee County, New York	190176

Photo No. 15

Facing North

Description:

Data Point 009

Data Point for upland/dryland adjacent to Wetland 004 & Wetland 005.

Photo No. 16

Facing South

Description:

Data Point 009

Overview of upland/dryland adjacent to Wetland 004 & Wetland 005.

FISHER ASSOCIATES

REPRESENTATIVE SITE PHOTOGRAPHS

Project Name:	Site Location:	Project No.
Niagara Mohawk Power Corporation (d/b/a National Grid) Lockport-Batavia #112 Rebuild Project Wetland and Watercourse Delineation Report	Towns of Lockport and Royalton, Niagara County and Town of Alabama, Genesee County, New York	190176

Photo No. 17

Facing North

Description:

Data Point 010

PEM Data Point for Wetland 005. Located in NYSDEC Wetland LP-23.

Photo No. 18

Facing West

Description:

Data Point 010

Overview of PEM Wetland 005. Located in NYSDEC Wetland LP-23.

REPRESENTATIVE SITE PHOTOGRAPHS

Project Name:	Site Location:	Project No.
Niagara Mohawk Power Corporation (d/b/a National Grid) Lockport-Batavia #112 Rebuild Project Wetland and Watercourse Delineation Report	Towns of Lockport and Royalton, Niagara County and Town of Alabama, Genesee County, New York	190176

Photo No. 19

Facing North

Description:

Data Point 011

PEM Data Point for Wetland 006.

Photo No. 20

Facing North

Description:

Data Point 011

Overview of PEM Wetland 006.

FISHER ASSOCIATES

REPRESENTATIVE SITE PHOTOGRAPHS

Project Name:	Site Location:	Project No.
Niagara Mohawk Power Corporation (d/b/a National Grid) Lockport-Batavia #112 Rebuild Project Wetland and Watercourse Delineation Report	Towns of Lockport and Royalton, Niagara County and Town of Alabama, Genesee County, New York	190176

Photo No. 21

Facing North

Description:

Data Point 012

Data Point for upland/dryland adjacent to Wetland 006.

Photo No. 22

Facing North

Description:

Data Point 012

Overview of upland/dryland adjacent to Wetland 006.

REPRESENTATIVE SITE PHOTOGRAPHS

Project Name:	Site Location:	Project No.
Niagara Mohawk Power Corporation (d/b/a National Grid) Lockport-Batavia #112 Rebuild Project Wetland and Watercourse Delineation Report	Towns of Lockport and Royalton, Niagara County and Town of Alabama, Genesee County, New York	190176

Photo No. 23

Facing North

Description:

Data Point 013

Data Point for upland/dryland adjacent to Wetland 007.

Photo No. 24

Facing North

Description:

Data Point 013

Overview of upland/dryland adjacent to Wetland 007.

FISHER ASSOCIATES

REPRESENTATIVE SITE PHOTOGRAPHS

Project Name:	Site Location:	Project No.
Niagara Mohawk Power Corporation (d/b/a National Grid) Lockport-Batavia #112 Rebuild Project Wetland and Watercourse Delineation Report	Towns of Lockport and Royalton, Niagara County and Town of Alabama, Genesee County, New York	190176

Photo No. 25

Facing North

Description:

Data Point 014

PEM Data Point for Wetland 007.

Photo No. 26

Facing North

Description:

Data Point 014

Overview of PEM Wetland 007.

FISHER ASSOCIATES

REPRESENTATIVE SITE PHOTOGRAPHS

Project Name:	Site Location:	Project No.
Niagara Mohawk Power Corporation (d/b/a National Grid) Lockport-Batavia #112 Rebuild Project Wetland and Watercourse Delineation Report	Towns of Lockport and Royalton, Niagara County and Town of Alabama, Genesee County, New York	190176

Photo No. 27

Facing West/ Upstream

Description:

Data Point 015

Ditch Data Point for non-jurisdictional intermittent Ditch 001.

Photo No. 28

Facing East/ Downstream

Description:

Data Point 015

Ditch Data Point for non-jurisdictional intermittent Ditch 001.

FISHER ASSOCIATES

REPRESENTATIVE SITE PHOTOGRAPHS

Project Name:	Site Location:	Project No.
Niagara Mohawk Power Corporation (d/b/a National Grid) Lockport-Batavia #112 Rebuild Project Wetland and Watercourse Delineation Report	Towns of Lockport and Royalton, Niagara County and Town of Alabama, Genesee County, New York	190176

Photo No. 29

Facing North/
Right Bank to Left Bank

Description:

Data Point 015

Ditch Data Point for non-jurisdictional intermittent Ditch 001.

Photo No. 30

Facing North/
Upstream

Description:

Data Point 016

Ditch Data Point for non-jurisdictional ephemeral Ditch 002.