Soil Photos



Photo of Sample Plot

Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

| Project/Site: Garnet | | | City/County: Cato | , Cayuga Co | ounty | | Sampling Date: | 2020-Nov-05 |
|--------------------------|-----------------|------------------|---------------------------------------|--------------|--------------|---------------|---------------------------------------|--------------------|
| Applicant/Owner: No | extEra | | | | State: | New York | Sampling Point: | W-JJB-04; PUB-1 |
| Investigator(s): Brian | n Stoos, Ryan S | now, Jacob brill | 0 | Sec | tion, Townsl | hip, Range: | | |
| Landform (hillslope, ter | rrace, etc.): | Swamp | | Local relief | (concave, c | onvex, none): | Concave | Slope (%): 0-1 |
| Subregion (LRR or MLR | A): LRR R | | | Lat: | 43.151329 | 1 Long: | -76.6030044 | Datum: WGS84 |
| Soil Map Unit Name: | Muck shallow | ı, ms | | | | | NWI classifie | cation: PEM |
| Are climatic/hydrologic | conditions on | the site typical | for this time of yea | ar? | Yes 🟒 | No (If n | o, explain in Rema | rks.) |
| 0 | | , , , | significantly dis naturally proble | | | | tances" present? ny answers in Rem | Yes 🟒 No arks.) |

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

| Hydrophytic Vegetation Present? | Yes 🟒 No | | |
|---|-----------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes 🟒 No | Is the Sampled Area within a Wetland? | Yes 🯒 No |
| Wetland Hydrology Present? | Yes 🟒 No | lf yes, optional Wetland Site ID: | W-JJB-04 |
| Remarks: (Explain alternative procedures he | ere or in a separate report |) | |
| | | | |
| | | | |
| TRC covertype is PUB. | | | |
| | | | |
| | | | |
| | | | |

| Wetland Hydrology Indicators | : | | | | |
|---|--|--------------------------------|--|--|--|
| Primary Indicators (minimum | of one is required; check a | <u>ll that apply)</u> | | Secondary Indicators (minimum of two required) | |
| ✓ 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 Aeria Sparsely Vegetated Concard | — Pres — Rece _ Thin al Imagery (B7) _ Othe | Roots (C3) ils (C6) | 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): | 24 | | |
| Water Table Present? | Yes 🟒 No | Depth (inches): | 0 | Wetland Hydrology Present? Yes 🟒 No | |
| Saturation Present? | Yes 🟒 No | Depth (inches): | 0 | | |
| (includes capillary fringe) | | | | | |
| Describe Recorded Data (strea | am gauge, monitoring well, | , aerial photos, previous insp | ections), if | available: | |

Sampling Point: W-JJB-04; PUB-1

| ree Stratum (Plot size: <u>30 ft</u>) | | Dominant | | Dominance Test worksheet: | | |
|---|-----|-------------|--------|--|--------------|-----------|
| · | | Species? | Status | Number of Dominant Species That | 4 | (A) |
| Fraxinus americana | 25 | Yes | FACU | Are OBL, FACW, or FAC: | | |
| | | | | Total Number of Dominant Species Across All Strata: | 5 | (B) |
| | | | | Percent of Dominant Species That | | |
| | | | | - Are OBL, FACW, or FAC: | 80 | (A/B) |
| | | | | Prevalence Index worksheet: | | |
| | | | | - Total % Cover of: | Multiply I | Bv. |
| | | | | - OBL species 100 | x 1 = | 100 |
| | 25 | = Total Cov | er | FACW species 30 | x 2 = | 60 |
| apling/Shrub Stratum (Plot size: <u>15 ft</u>) | | | | FAC species 25 | x 3 = | 75 |
| Cornus racemosa | 15 | Yes | FAC | - FACU species 25 | x 4 = | 100 |
| Viburnum dentatum | 10 | Yes | FAC | - UPL species 0 | x 5 = | 0 |
| | | | | - Column Totals 180 | (A) | 335 (B) |
| | | | | Prevalence Index = B/A = | · · · - | 333 (D |
| | | | | | | |
| | | | | Hydrophytic Vegetation Indicators: | | |
| | | | | 1- Rapid Test for Hydrophytic | Vegetation | |
| | 25 | = Total Cov | er | 2 - Dominance Test is >50% | | |
| <u>erb Stratum</u> (Plot size: <u>5 ft</u>) | | - | | \checkmark 3 - Prevalence Index is ≤ 3.0 ¹ | | |
| Leersia oryzoides | 65 | Yes | OBL | 4 - Morphological Adaptations | | supportin |
| Bidens frondosa | 30 | Yes | FACW | data in Remarks or on a separate s Problematic Hydrophytic Vege | | |
| Iris pseudacorus | 15 | No | OBL | Image: Problematic Hydrophytic veg Indicators of hydric soil and wetlar | - | |
| . Rumex britannica | 10 | No | OBL | present, unless disturbed or proble | , , | gy must b |
| . Peltandra virginica | 5 | No | OBL | Definitions of Vegetation Strata: | inatic | |
| . Persicaria punctata | 5 | No | OBL | Tree – Woody plants 3 in. (7.6 cm) c | r more in c | liamotor |
| · · · · · · · · · · · · · · · · · · · | | | | breast height (DBH), regardless of l | | nameter a |
| | | | | Sapling/shrub – Woody plants less | - | BH and |
| | | | | greater than or equal to 3.28 ft (1 n | | |
|). | | | | Herb – All herbaceous (non-woody | | ardless o |
| | | | | size, and woody plants less than 3. | | |
| 1 | | | | Woody vines – All woody vines grea | ater than 3. | 28 ft in |
| 2 | 130 | = Total Cov | or | height. | | |
| <u>/oody Vine Stratum (</u> Plot size: <u>30 ft</u>) | 150 | - 10tai COV | CI | Hydrophytic Vegetation Present? | Yes 🧹 N | 0 |
| | | | | | | |
| · | | | | - | | |
| · | | | | - | | |
| | | | | - | | |
| · | | | | - | | |
| | 0 | = Total Cov | er | | | |

| ches) Color (moist) | % Color (moist) % | Type ¹ Loc ² Te | xture Remarks |
|---|--|---------------------------------------|--|
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| e: C = Concentration, D | = Depletion, RM = Reduced Ma | atrix, MS = Masked Sand Gra | ins. ² Location: PL = Pore Lining, M = Matrix. |
| ric Soil Indicators: | | | Indicators for Problematic Hydric Soils ³ : |
| Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Itratified Layers (A5) Depleted Below Dark Su Flick Dark Surface (A12) Gandy Mucky Mineral (S ⁷ Gandy Gleyed Matrix (S4 Gandy Redox (S5) Itripped Matrix (S6) Dark Surface (S7) (LRR R | Loamy Mucky M Loamy Gleyed M Depleted Matrix rface (A11) Redox Dark Surf Depleted Dark S) Redox Depressio | (F3) Face (F6) urface (F7) | 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) 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) |
| cators of hydrophytic v | egetation and wetland hydrolo | ogy must be present, unless o | disturbed or problematic. |
| rictive Layer (if observe | d): | | |
| Туре: | None | Hydric Soil Prese | ent? Yes 🏒 No |
| Depth (inches): | | | |
| | | | |

Hydrology Photos







| Project/Site: Garnet | City/County: Cato, Cayuga County | | | | | | Sampling Date: 2020-Nov-05 | | |
|-------------------------|----------------------------------|---------------------|------------------------|-----------|-------------|-----------------|----------------------------|-----------------|--|
| Applicant/Owner: N | extEra | | | | State: | New York | Sampling Point: | W-JJB-04; UPL-1 | |
| Investigator(s): Brian | n Stoos, Ryan S | now, Jacob brillo | | Sect | ion, Towns | hip, Range: | | | |
| Landform (hillslope, te | rrace, etc.): | Flat | Loc | al relief | (concave, c | convex, none): | Flat | Slope (%): 2-5 | |
| Subregion (LRR or MLF | RA): LRR F | 2 | | Lat: | 43.155766 | 3 Long: | -76.6074788 | Datum: WGS84 | |
| Soil Map Unit Name: | Ontario fine | sandy loam, 8 to 1 | 5 percent slopes, Of | fC | | | NWI classifi | cation: | |
| Are climatic/hydrologic | conditions on | the site typical fo | r this time of year? | | Yes 🖌 | No (If n | o, explain in Rema | irks.) | |
| Are Vegetation, | Soil, | or Hydrology | _significantly disturk | oed? | Are "No | ormal Circums | tances" present? | Yes 🟒 No | |
| Are Vegetation, | Soil, | or Hydrology | _ naturally problema | itic? | (If need | ded, explain ar | ny answers in Rem | arks.) | |

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

| Hydrophytic Vegetation Present? | Yes No 🟒 | | |
|---|-------------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes No 🟒 | Is the Sampled Area within a Wetland? | Yes No 🟒 |
| Wetland Hydrology Present? | Yes No 🟒 | If yes, optional Wetland Site ID: | |
| Remarks: (Explain alternative procedure | es here or in a separate repo | rt) | |
| | | | |
| | | | |
| TRC covertype is UPL. | | | |
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| | | | |

| Wetland Hydrology Indicators: | | | | | |
|-----------------------------------|--|----------------|--|-------------|--|
| Primary Indicators (minimum of or | Secondary Indicators (minimum of two required) | | | | |
| | | | tic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) zed Rhizospheres on Living R ence of Reduced Iron (C4) nt Iron Reduction in Tilled Soi Muck Surface (C7) | | 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 🟒 | Depth (inches): | | Wetland Hydrology Present? Yes No |
| Saturation Present? | Yes | No 🖌 | Depth (inches): | | - |
| (includes capillary fringe) | | | | | - |
| Describe Recorded Data (stream g | auge, mon | litoring well, | aerial photos, previous inspe | ctions), if | available: |
| | | | | | |

Sampling Point: <u>W-JJB-04; UPL-1</u>

| ree Stratum (Plot size: <u>30 ft</u>) | | Dominant Species? | Indicator Status | Dominance Test worksheet: Number of Dominant Species Th | ^{at} 2 | (A) |
|--|----|----------------------|---------------------|--|----------------------------|------------|
| Acer saccharum | 40 | Yes | FACU | Are OBL, FACW, or FAC: | | (A) |
| Acer rubrum | 15 | Yes | FAC | Total Number of Dominant Speci | es 5 | (B) |
| Prunus serotina | 10 | No | FACU | Across All Strata: | | (=) |
| Populus deltoides | 5 | No | FAC | Percent of Dominant Species That Are OBL, FACW, or FAC: | ^{at} 40 | (A/B) |
| · | | | | Prevalence Index worksheet: | | |
| | | | | - Total % Cover of: | Multiply | Bv: |
| | | | | - OBL species 0 | x 1 = | 0 |
| | 70 | = Total Cov | er | FACW species 0 | x 2 = | 0 |
| apling/Shrub Stratum (Plot size: <u>15 ft</u>) | | | | FAC species 40 | x 3 = | 120 |
| Acer rubrum | 20 | Yes | FAC | FACU species 80 | x 4 = | 320 |
| | | | | - UPL species 0 | x 5 = | 0 |
| | | | | - Column Totals 120 | (A) | 440 (B |
| | | | | Prevalence Index = B/A | | 440 (D |
| | | · | | Hydrophytic Vegetation Indicator | | |
| | | · | | 1- Rapid Test for Hydrophyt | | ı |
| | | | | 2 - Dominance Test is > 50% | - | |
| | 20 | = Total Cov | er | 3 - Prevalence Index is ≤ 3 . |) ¹ | |
| <u>erb Stratum</u> (Plot size: <u>5 ft</u>) | | | | 4 - Morphological Adaptatic | ons¹ (Provide | supportin |
| Solidago canadensis | 10 | Yes | FACU | - data in Remarks or on a separate | e sheet) | |
| . <u>Rubus idaeus</u> | 10 | Yes | FACU | Problematic Hydrophytic Ve | egetation ¹ (Ex | kplain) |
| . <u>Rosa multiflora</u> | 5 | No | FACU | ¹ Indicators of hydric soil and wet | land hydrolo | gy must b |
| . Symphyotrichum pilosum | 5 | No | FACU | present, unless disturbed or pro | olematic | |
| | | | | Definitions of Vegetation Strata: | | |
| | | | | Tree – Woody plants 3 in. (7.6 cm |) or more in | diameter a |
| | | | | breast height (DBH), regardless o | - | |
| | | | | Sapling/shrub – Woody plants les | | DBH and |
| | | | | greater than or equal to 3.28 ft (| | |
| 0 | | | | Herb – All herbaceous (non-woo | | gardless o |
| 1 | | | | size, and woody plants less than | | 20.6 |
| 2 | | | | Woody vines – All woody vines g | eater than 3 | .28 ft in |
| | 30 | = Total Cov | er | height. | | |
| <u>/oody Vine Stratum</u> (Plot size: <u>30 ft</u>) | | | | Hydrophytic Vegetation Present | ? Yes N | No 🔽 |
| | | | | | | |
| | | | | _ | | |
| | | | | | | |
| | | | - | - | | |
| | 0 | = Total Cov | er | - | | |

| Depth | Matrix | | Redox | Features | | | | |
|--|---|----------|----------------------------|-----------------|---------------------------------|--|---|--|
| (inches) | Color (moist) | % | Color (moist) | % Тур | e ¹ Loc ² | Texture | | Remarks |
| 0 - 18 | 7.5YR 4/3 | 100 | | | | Silt Loam | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | <u> </u> | | | | |
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| | | | | | | | | |
| | Concentration, D = | Depletic | on, RM = Reduced | l Matrix, M | 5 = Maske | d Sand Grains. ² L | | e Lining, M = Matrix. |
| • | Indicators: | | _ | | 1951 | | Indicators for P | roblematic Hydric Soils ³ : |
| Histoso | | | Polyvalue Be | | | | 2 cm Muck (| A10) (LRR K, L, MLRA 149B) |
| Histic Ep Black Hi | pipedon (A2) | | Thin Dark Su Loamy Muck | | | | | e Redox (A16) (LRR K, L, R) |
| | en Sulfide (A4) | | Loamy Gleye | | | L) | | Peat or Peat (S3) (LRR K, L, R) |
| | d Layers (A5) | | Depleted Ma | | _, | | Dark Surfac | |
| Deplete | d Below Dark Surfa | ace (A11 | • | | | | | elow Surface (S8) (LRR K, L) urface (S9) (LRR K, L) |
| | ark Surface (A12) | | Depleted Da | | F7) | | | nese Masses (F12) (LRR K, L, R) |
| | lucky Mineral (S1) | | Redox Depre | essions (F8) | | | | oodplain Soils (F19) (MLRA 149B) |
| | loved Matrix (SA) | | | | | | | |
| Sandy C | - | | | | | | Mesic Spodi | C (TA6) (MLRA 144A, 145, 149B) |
| Sandy R | Redox (S5) | | | | | | Mesic Spodi Red Parent | c (TA6) (MLRA 144A, 145, 149B) Material (F21) |
| Sandy R Stripped | edox (S5) d Matrix (S6) | | | | | | Red Parent | |
| Sandy R Stripped | Redox (S5) | 1LRA 14 | 9B) | | | | Red Parent | Material (F21) v Dark Surface (TF12) |
| Sandy R Stripped Dark Su | edox (S5) d Matrix (S6) | | | rology mus | t be prese | nt, unless disturbe | Red Parent Very Shallov Other (Expla | Material (F21) v Dark Surface (TF12) iin in Remarks) |
| Sandy F Stripped Dark Su Bindicators | redox (S5) d Matrix (S6) rface (S7) (LRR R, M | etation | | rology mus | t be prese | nt, unless disturbe | Red Parent Very Shallov Other (Expla | Material (F21) v Dark Surface (TF12) iin in Remarks) |
| Sandy R Stripped Dark Su Indicators Restrictive I | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg | etation | | rology mus | | nt, unless disturbe c Soil Present? | Red Parent Very Shallov Other (Expla d or problematic. | Material (F21) v Dark Surface (TF12) iin in Remarks) |
| Sandy F Stripped Dark Su Indicators Restrictive I | Redox (S5) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): | etation | and wetland hydi | rology mus | | | Red Parent Very Shallov Other (Expla d or problematic. | Material (F21) v Dark Surface (TF12) iin in Remarks) |
| Sandy F Stripped Dark Su Indicators Restrictive I | Redox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydi | rology mus - | | | Red Parent Very Shallov Other (Expla d or problematic. | Material (F21) v Dark Surface (TF12) iin in Remarks) |
| Sandy F Stripped Dark Su Indicators Restrictive I | Redox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydi | rology mus | | | Red Parent Very Shallov Other (Expla d or problematic. | Material (F21) v Dark Surface (TF12) iin in Remarks) |
| Sandy F Stripped Dark Su Indicators Restrictive I | Redox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydi | rology mus | | | Red Parent Very Shallov Other (Expla d or problematic. | Material (F21) v Dark Surface (TF12) iin in Remarks) |
| Sandy F Stripped Dark Su Indicators Restrictive I | Redox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydi | rology mus - | | | Red Parent Very Shallov Other (Expla d or problematic. | Material (F21) v Dark Surface (TF12) iin in Remarks) |
| Sandy F Stripped Dark Su ndicators estrictive l | Redox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydi | rology mus | | | Red Parent Very Shallov Other (Expla d or problematic. | Material (F21) v Dark Surface (TF12) iin in Remarks) |
| Sandy F Stripped Dark Su ndicators estrictive l | Redox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydi | rology mus | | | Red Parent Very Shallov Other (Expla d or problematic. | Material (F21) v Dark Surface (TF12) iin in Remarks) |
| Sandy F Stripped Dark Su ndicators estrictive l | Redox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydi | rology mus | | | Red Parent Very Shallov Other (Expla d or problematic. | Material (F21) v Dark Surface (TF12) iin in Remarks) |
| Sandy F Stripped Dark Su ndicators estrictive l | Redox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydi | rology mus | | | Red Parent Very Shallov Other (Expla d or problematic. | Material (F21) v Dark Surface (TF12) iin in Remarks) |
| Sandy F Stripped Dark Su ndicators estrictive l | Redox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydi | rology mus | | | Red Parent Very Shallov Other (Expla d or problematic. | Material (F21) v Dark Surface (TF12) iin in Remarks) |
| Sandy F Stripped Dark Su ndicators estrictive l | Redox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydi | rology mus | | | Red Parent Very Shallov Other (Expla d or problematic. | Material (F21) v Dark Surface (TF12) iin in Remarks) |
| Sandy F Stripped Dark Su Indicators Restrictive I | Redox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydi | rology mus | | | Red Parent Very Shallov Other (Expla d or problematic. | Material (F21) v Dark Surface (TF12) iin in Remarks) |
| Sandy F Stripped Dark Su Indicators Restrictive I | Redox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydi | rology mus | | | Red Parent Very Shallov Other (Expla d or problematic. | Material (F21) v Dark Surface (TF12) iin in Remarks) |
| Sandy F Stripped Dark Su Indicators Restrictive I | Redox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydi | rology mus | | | Red Parent Very Shallov Other (Expla d or problematic. | Material (F21) v Dark Surface (TF12) iin in Remarks) |
| Sandy R Stripped Dark Su Indicators Restrictive I | Redox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydi | rology mus | | | Red Parent Very Shallov Other (Expla d or problematic. | Material (F21) v Dark Surface (TF12) iin in Remarks) |
| Sandy F Stripped Dark Su Indicators Restrictive I | Redox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydi | rology mus | | | Red Parent Very Shallov Other (Expla d or problematic. | Material (F21) v Dark Surface (TF12) iin in Remarks) |
| Sandy F Stripped Dark Su lIndicators Restrictive I | Redox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydi | rology mus | | | Red Parent Very Shallov Other (Expla d or problematic. | Material (F21) v Dark Surface (TF12) iin in Remarks) |
| Sandy F Stripped Dark Su Indicators Restrictive I | Redox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydi | rology mus | | | Red Parent Very Shallov Other (Expla d or problematic. | Material (F21) v Dark Surface (TF12) iin in Remarks) |
| Sandy F Stripped Dark Su Indicators Restrictive I | Redox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydi | rology mus | | | Red Parent Very Shallov Other (Expla d or problematic. | Material (F21) v Dark Surface (TF12) iin in Remarks) |

Vegetation Photos



Soil Photos

Photo of Sample Plot



| Project/Site: Garnet | | City/County: Cato, Cayuga County | | | | | Sampling Date: 2020-Nov-05 | | |
|--------------------------|-----------------|--|-------------|-----------------|--------------|---------------------------------------|----------------------------|--|--|
| Applicant/Owner: N | extEra | | | State: N | lew York | Sampling Point: | W-JJB-04; UPL-2 | | |
| Investigator(s): Brian | n Stoos, Ryan S | inow, Jacob brillo | Se | ction, Townsh | ip, Range: | | | | |
| Landform (hillslope, ter | rrace, etc.): | Agricultural Field | Local relie | ef (concave, co | nvex, none): | Convex | Slope (%): 2-5 | | |
| Subregion (LRR or MLR | A): LRR F | R | Lat | t: 43.1511889 | Long: | -76.6033261 | Datum: WGS84 | | |
| Soil Map Unit Name: | HiB, Hilton lo | am, 3to 8 percent loam | | | | NWI classifi | cation: None | | |
| Are climatic/hydrologic | conditions on | the site typical for this time of | of year? | Yes 🟒 I | No (If n | o, explain in Rema | arks.) | | |
| 0 | | or Hydrology significant or Hydrology naturally p | 5 | | | tances" present? ny answers in Rem | | | |

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

| Hydrophytic Vegetation Present? | Yes No 🟒 | | |
|--|---------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes No 🟒 | Is the Sampled Area within a Wetland? | Yes No 🟒 |
| Wetland Hydrology Present? | Yes No _ | If yes, optional Wetland Site ID: | |
| Remarks: (Explain alternative procedures her | e or in a separate report |) | |
| | | | |
| | | | |
| TRC covertype is UPL. Circumstances are not | normal due to agricultur | al activities | |
| | | | |
| | | | |
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| Wetland Hydrology Indicators: | | | | | |
|---|------------|--|--|--------------|--|
| Primary Indicators (minimum of or | e is requi | red; check | <u>all that apply)</u> | | Secondary Indicators (minimum of two required) |
| 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 Ima Sparsely Vegetated Concave Su | | — Aqı — Ma — Hyı — Ox — Pre — Rec — Thi — Oth | iter-Stained Leaves (B9) uatic Fauna (B13) I'l Deposits (B15) drogen Sulfide Odor (C1) idized Rhizospheres on Living R esence of Reduced Iron (C4) cent Iron Reduction in Tilled Soi in Muck Surface (C7) ner (Explain in Remarks) | | 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 🟒 | Depth (inches): | | Wetland Hydrology Present? Yes No |
| Saturation Present? | Yes | No 🟒 | Depth (inches): | | - |
| (includes capillary fringe) | | | | | - |
| Describe Recorded Data (stream g | auge, mon | nitoring we | ll, aerial photos, previous inspe | ections), if | available: |
| | | | | | |

Sampling Point: W-JJB-04; UPL-2

| <pre>Species? Species? Species</pre> | /er | UPL species 0 x 5 = Column Totals 25 (A) 10 Prevalence Index = B/A = 4 4 Hydrophytic Vegetation Indicators: | n) |
|--|-----------------|---|---|
| = Total Co | /er | Across All Strata:IPercent of Dominant Species That Are OBL, FACW, or FAC:0Prevalence Index worksheet: 1 OBL species 0 X 1 =FACW, or FAC:Multiply By:OBL species 0 X 1 =FACW species 0 X 2 =FAC species 0 X 3 =FACU species 0 X 5 =Olumn Totals 25 Column Totals 25 Column Totals 25 AndHydrophytic Vegetation Indicators:Image: Arrow and the original for Hydrophytic VegetationImage: Arrow and the original for Hydrophytic VegetationImage: Arrow and the original for the original for the original formation and the origi | (A/B) 0 0 100 0 0 (B) 0 0 (B) |
| _ = Total Co | /er FACU | Percent of Dominant Species That Are OBL, FACW, or FAC:0Prevalence Index worksheet:Multiply By:OBL species 0 $x 1 =$ FACW species 0 $x 2 =$ FACW species 0 $x 3 =$ FACU species 0 $x 3 =$ FACU species 25 $x 4 =$ UPL species 25 $x 4 =$ Column Totals 25 (A) Prevalence Index = B/A = 4 Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation2 - Dominance Test is > 50%3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations1 (Provide supplication Remarks or on a separate sheet)Problematic Hydrophytic Vegetation1 (Explain1Indicators of hydric soil and wetland hydrology mpresent, unless disturbed or problematic | 0 0 100 0 0 (B) |
| Total Co | /er FACU | Prevalence Index worksheet:Total % Cover of:Multiply By:OBL species 0 $x 1 =$ FACW species 0 $x 2 =$ FAC species 0 $x 3 =$ FACU species 25 $x 4 =$ UPL species 0 $x 5 =$ Column Totals 25 (A) Prevalence Index = $B/A =$ 4 Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation2 - Dominance Test is > 50%3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations1 (Provide support data in Remarks or on a separate sheet)Problematic Hydrophytic Vegetation1 (Explain 1 Indicators of hydric soil and wetland hydrology m present, unless disturbed or problematic | 0 0 100 0 0 (B) porting |
| _ = Total Co | /er FACU | Total % Cover of:Multiply By:OBL species 0 \times 1 =FACW species 0 \times 2 =FAC species 0 \times 3 =FAC species 0 \times 3 =FACU species 25 \times 4 =UPL species 0 \times 5 =Column Totals 25 (A)Prevalence Index = B/A =4Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation2 - Dominance Test is > 50%3 - Prevalence Index is \leq 3.014 - Morphological Adaptations1 (Provide suppdata in Remarks or on a separate sheet)Problematic Hydrophytic Vegetation1 (Explain1Indicators of hydric soil and wetland hydrology mpresent, unless disturbed or problematic | 0 0 100 0 0 (B) porting |
| _ = Total Co | /er FACU | OBL species0x 1 =FACW species0x 2 =FAC species0x 3 =FAC species25x 4 =UPL species0x 5 =Column Totals25(A)Prevalence Index = $B/A = 4$ Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation2 - Dominance Test is > 50%3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations1 (Provide supplication in Remarks or on a separate sheet)Problematic Hydrophytic Vegetation1 (Explain 1 Indicators of hydric soil and wetland hydrology more present, unless disturbed or problematic | 0 0 100 0 0 (B) porting |
| | /er FACU | FACW species0x 2 =FAC species0x 3 =FAC species25x 4 =UPL species0x 5 =Column Totals25(A)Prevalence Index = $B/A = 4$ Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation2 - Dominance Test is > 50%3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations1 (Provide supplication in Remarks or on a separate sheet)Problematic Hydrophytic Vegetation1 (Explain1Indicators of hydric soil and wetland hydrology methodsPresent, unless disturbed or problematic | 0 0 100 0 0 (B) porting |
| = Total Co Yes | /er | FAC species0x 3 =FACU species25x 4 =UPL species0x 5 =Column Totals25(A)10Prevalence Index = $B/A = 4$ 4Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation2 - Dominance Test is > 50%3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations1 (Provide supplication in Remarks or on a separate sheet)Problematic Hydrophytic Vegetation1 (Explain 1 Indicators of hydric soil and wetland hydrology moresent, unless disturbed or problematic | 0 100 0 (B) |
| = Total Co Yes | /er | FACU species 25 $x 4 =$ UPL species0 $x 5 =$ Column Totals 25 (A)10Prevalence Index = B/A =4Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation2 - Dominance Test is > 50%3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations1 (Provide supplication Remarks or on a separate sheet)Problematic Hydrophytic Vegetation1 (Explain1 Indicators of hydric soil and wetland hydrology mpresent, unless disturbed or problematic | 100 0 (B) |
| = Total Co Yes | /er | UPL species0x 5 =Column Totals25(A)10Prevalence Index = $B/A =44Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation2 - Dominance Test is > 50%3 - Prevalence Index is \leq 3.0^14 - Morphological Adaptations1 (Provide supplication Remarks or on a separate sheet)Problematic Hydrophytic Vegetation1 (Explain1 Indicators of hydric soil and wetland hydrology mpresent, unless disturbed or problematic$ | 0 (B) porting |
| = Total Co Yes | /er FACU | Column Totals 25 (A) 10 Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.01 4 - Morphological Adaptations1 (Provide supplication Remarks or on a separate sheet) Problematic Hydrophytic Vegetation1 (Explain 1 Indicators of hydric soil and wetland hydrology m present, unless disturbed or problematic | 0 (B) |
| Yes | FACU | Prevalence Index = B/A = | porting |
| Yes | FACU | Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.01 4 - Morphological Adaptations¹ (Provide supplicated and the second secon | n) |
| Yes | FACU | 1- Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.01 4 - Morphological Adaptations1 (Provide supplication in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation1 (Explain 1 Indicators of hydric soil and wetland hydrology m present, unless disturbed or problematic | n) |
| Yes | FACU | 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.01 4 - Morphological Adaptations1 (Provide supplication in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation1 (Explain 1 Indicators of hydric soil and wetland hydrology mpresent, unless disturbed or problematic | n) |
| Yes | FACU | 3 - Prevalence Index is ≤ 3.01 4 - Morphological Adaptations1 (Provide supplate data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation1 (Explain 1 Indicators of hydric soil and wetland hydrology m present, unless disturbed or problematic | n) |
| Yes | FACU | 4 - Morphological Adaptations¹ (Provide supplications) data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain ¹Indicators of hydric soil and wetland hydrology m present, unless disturbed or problematic | n) |
| · | | data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain ¹Indicators of hydric soil and wetland hydrology m present, unless disturbed or problematic | n) |
| · | | Problematic Hydrophytic Vegetation¹ (Explain ¹Indicators of hydric soil and wetland hydrology m present, unless disturbed or problematic | |
| | | ¹Indicators of hydric soil and wetland hydrology m present, unless disturbed or problematic | |
| | | present, unless disturbed or problematic | iust be |
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| | | Definitions of Vegetation Strata: | |
| | | Tree – Woody plants 3 in. (7.6 cm) or more in diam | neter a |
| · | | 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. | |
| | · | | less of |
| | | | + : |
| | | | U IN |
| = Total Co | /er | | |
| | | Hydrophytic Vegetation Present? Yes No | ∠ |
| | | _ | |
| | | | |
| | | | |
| | | - | |
| = Total Co | /er | - | |
| | | | |
| | - | _= Total Cover | Herb – All herbaceous (non-woody) plants, regard size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft tall. Total Cover Hydrophytic Vegetation Present? Yes No |

| Profile Des | cription: (Describe | to the de | epth needed to do | ocum | nent the i | indicato | r or confirm the a | bsence of indicato | ors.) |
|------------------------|------------------------------|-----------|-------------------|-------|-------------------|------------------|-----------------------------|--------------------|---|
| Depth | Matrix | | Redox | Feat | ures | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | | Remarks |
| 0 - 10 | 10YR 3/4 | 98 | 10YR 4/6 | 2 | С | М | Silt Loam | | |
| 10 - 18 | 10YR 3/4 | 100 | | | | | Silt Loam | | |
| | | | | | | | | | |
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| 1Turno: C = C | Concontration D - | Doplatic | PM - Poducod | Mat | | Mackod | Sand Grains 2 | ocation: DL - Doro | Lipipg M - Matrix |
| | Concentration, D = | Dehierio | n, kivi – keduced | wat | 1X, IVIS = | wasked | Sanu Grains. ² L | | Lining, M = Matrix. |
| Hydric Soil Histoso | | | Dolvarshup Del | | urface (C | 0) / חח | | | oblematic Hydric Soils ³ : |
| | pipedon (A2) | | Polyvalue Bel | | | | | | A10) (LRR K, L, MLRA 149B) |
| | istic (A3) | | Loamy Mucky | | | | | | e Redox (A16) (LRR K, L, R) |
| | en Sulfide (A4) | | Loamy Gleyed | | | | L) | | Peat or Peat (S3) (LRR K, L, R) |
| | d Layers (A5) | | Depleted Mat | | | | | Dark Surface | |
| | d Below Dark Surfa | | | | | | | , | elow Surface (S8) (LRR K, L) |
| Thick Da | ark Surface (A12) | | Depleted Dar | k Sui | face (F7) |) | | | Irface (S9) (LRR K, L) |
| Sandy N | /lucky Mineral (S1) | | Redox Depres | ssior | is (F8) | | | • | nese Masses (F12) (LRR K, L, R) |
| Sandy G | Gleyed Matrix (S4) | | | | | | | | podplain Soils (F19) (MLRA 149B) |
| Sandy F | Redox (S5) | | | | | | | Red Parent N | c (TA6) (MLRA 144A, 145, 149B) |
| Stripped | d Matrix (S6) | | | | | | | | / Dark Surface (TF12) |
| Dark Su | irface (S7) (LRR R, N | ILRA 149 | 9B) | | | | | Other (Expla | |
| a. I | | | | | | | | | in in Kentuksy |
| | of hydrophytic veg | | and wetland hydr | olog | y must b | e preser | nt, unless disturbe | d or problematic. | |
| | Layer (if observed): _ | | | | | | | | |
| | Туре: | · | None | | | Hydric | Soil Present? | Yes | _ No _ 🖌 |
| - | Depth (inches): | | | | | | | | |
| Remarks: | | | | | | | | | |
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Vegetation Photos



Soil Photos

Photo of Sample Plot



| Project/Site: Garnet | | City/Co | ounty: Conquest, C | ayuga County | | Sampling Date: | 2020-Nov-05 |
|---------------------------------|-----------------|---------------------------------------|--------------------|-----------------|----------------|--|--------------------|
| Applicant/Owner: N | extEra | | | State: | New York | Sampling Point: V | V-JJB-04; UPL-3 |
| Investigator(s): Brian | n Stoos, Ryan S | now, Jacob brillo | | Section, Towns | ship, Range: | | |
| Landform (hillslope, te | rrace, etc.): | Agricultural Field | Local r | elief (concave, | convex, none): | Flat | Slope (%): 5-10 |
| Subregion (LRR or MLR | A): LRR R | | | Lat: 43.15336 | 81 Long: | -76.6010139 | Datum: WGS84 |
| Soil Map Unit Name: | Cazenovia sil | t loam, 8 to 14 percen | t slopes | | | NWI classific | ation: None |
| Are climatic/hydrologic | conditions on | the site typical for thi | s time of year? | Yes 🟒 | _ No (If no | o, explain in Remar | ·ks.) |
| Are Vegetation, Are Vegetation, | | or Hydrology sign or Hydrology nat | , | | | tances" present? ny answers in Rema | Yes 🟒 No arks.) |

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

| Hydrophytic Vegetation Present? | Yes No 🟒 | | |
|---|-------------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes No 🟒 | Is the Sampled Area within a Wetland? | Yes No 🟒 |
| Wetland Hydrology Present? | Yes No 🟒 | If yes, optional Wetland Site ID: | |
| Remarks: (Explain alternative procedure | es here or in a separate repo | rt) | |
| | | | |
| | | | |
| TRC covertype is UPL. | | | |
| The covertype is of L. | | | |
| | | | |
| | | | |

| Wetland Hydrology Indicators: | | | | |
|--|---------------------|---|---|--|
| Primary Indicators (minimum of on | <u>e is require</u> | d; check all tha | t apply) | Secondary Indicators (minimum of two required) |
| 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 Ima Sparsely Vegetated Concave Sur | 0 | Aquatic F. Marl Depr Hydrogen Oxidized Presence Recent Irco Thin Mucl | ined Leaves (B9) auna (B13) osits (B15) Sulfide Odor (C1) Rhizospheres on Living Roots (C of Reduced Iron (C4) on Reduction in Tilled Soils (C6) < Surface (C7) olain in Remarks) | 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 I | No 🟒 | Depth (inches): | |
| Water Table Present? | Yes I | No 🔽 | Depth (inches): | Wetland Hydrology Present? Yes No |
| Saturation Present? | Yes I | No 🟒 | Depth (inches): | |
| (includes capillary fringe) | | | | |
| Describe Recorded Data (stream ga | auge, monit | oring well, aeria | al photos, previous inspections) | if available: |
| | | | | |

Sampling Point: W-JJB-04; UPL-3

| ree Stratum (Plot size: <u>30 ft</u>) | | Dominant | | Dominance Test worksheet: | | |
|--|-----|-------------|--------|---|-----------------|------------|
| | | Species? | Status | Number of Dominant Species Tha | t 1 | (A) |
| Fraxinus americana | 15 | Yes | FACU | Are OBL, FACW, or FAC: | | |
| | | | | Total Number of Dominant Specie Across All Strata: | ⁵ 4 | (B) |
| | | | | Percent of Dominant Species That | | <u> </u> |
| · | | | | - Are OBL, FACW, or FAC: | 25 | (A/B) |
| · | | | | Prevalence Index worksheet: | | |
| | | | | - <u>Total % Cover of:</u> | <u>Multiply</u> | By: |
| | | | | - OBL species 0 | x 1 = | 0 |
| | 15 | = Total Cov | er | FACW species 0 | x 2 = | 0 |
| apling/Shrub Stratum (Plot size: <u>15 ft</u>) | | | | FAC species 10 | x 3 = | 30 |
| Fraxinus americana | 15 | Yes | FACU | - FACU species 135 | x 4 = | 540 |
| Rhamnus cathartica | 10 | Yes | FAC | - UPL species 0 | x 5 = | 0 |
| | | | | - Column Totals 145 | (A) | 570 (B |
| | | | | Prevalence Index = B/A | | |
| | | | | Hydrophytic Vegetation Indicators | | |
| | | | | - 1- Rapid Test for Hydrophytic | | |
| | | | | 2 - Dominance Test is > 50% | vegetation | |
| | 25 | = Total Cov | er | $3 - Prevalence Index is \leq 3.0^{\circ}$ | | |
| <u>erb Stratum</u> (Plot size: <u>5 ft</u>) | | | | 4 - Morphological Adaptation | | supportir |
| Galium mollugo | 75 | Yes | FACU | - data in Remarks or on a separate | | supporti |
| Trifolium pratense | 15 | No | FACU | Problematic Hydrophytic Veg | | olain) |
| . Trifolium repens | 10 | No | FACU | Indicators of hydric soil and wetla | | |
| Solidago canadensis | 5 | No | FACU | present, unless disturbed or prob | - | 5, |
| | | | | Definitions of Vegetation Strata: | | |
| | | | | Tree – Woody plants 3 in. (7.6 cm) | or more in (| diameter |
| | | | | breast height (DBH), regardless of | height. | |
| | | | | Sapling/shrub – Woody plants less | than 3 in. [| OBH and |
| | | | | greater than or equal to 3.28 ft (1 | m) tall. | |
|) | | | | Herb – All herbaceous (non-wood) | /) plants, reg | gardless o |
| 1 | | | | size, and woody plants less than 3 | .28 ft tall. | |
| 2 | | | | Woody vines – All woody vines gre | ater than 3 | .28 ft in |
| | 105 | = Total Cov | er | height. | | |
| <u>/oody Vine Stratum</u> (Plot size: <u>30 ft</u>) | | _ | | Hydrophytic Vegetation Present? | Yes N | lo 🖌 |
| | | | | | | |
| | | | | - | | |
| | | | | - | | |
| · | | | | - | | |
| | 0 | = Total Cov | er | - | | |
| | 0 | - | C1 | | | |

| (inches) | | <u>%</u> | Color (moist) | <u>%</u> Type | e1 | Silt Loar | | Remarks |
|---|-------------------------------|---------------|-----------------------------|---------------|------------|------------------------------|--------------------|---|
| - - - - - - - Type: C = Co lydric Soil In _ Histosol (_ Histic Epi | ncentration, D = D | | | | | | m | |
| l ydric Soil In Histosol (. Histic Epij | dicators: | | | | | | | |
| l ydric Soil In Histosol (. Histic Epij | dicators: | | | | | | | |
| l ydric Soil In Histosol (. Histic Epij | dicators: | | | | | | | |
| l ydric Soil In Histosol (. Histic Epij | dicators: | | | | | | | |
| l ydric Soil In Histosol (. Histic Epij | dicators: | | | | | | | |
| y dric Soil In Histosol (. Histic Epij | dicators: | | | | | | | |
| ydric Soil In Histosol (. Histic Epij | dicators: | | | | | | | |
| ydric Soil In Histosol (. Histic Epij | dicators: | | | | | | | |
| ydric Soil In Histosol (. Histic Epij | dicators: | Depletion | | | | | | |
| ydric Soil In Histosol (. Histic Epij | dicators: | Depletion | | · | | | | |
| ydric Soil In Histosol (. Histic Epij | dicators: | Depletion | | | | | | |
| ydric Soil In Histosol (. Histic Epij | dicators: | Depletion | | | | | | |
| Histosol (. Histic Epi | | | , RM = Reduced | Matrix, M | S = Maske | ed Sand Grains. ² | | e Lining, M = Matrix. |
| Histic Epi | A1) | | | | | | Indicators for Pr | roblematic Hydric Soils ³ : |
| | | | | | | R R, MLRA 149B) | 2 cm Muck (/ | A10) (LRR K, L, MLRA 149B) |
| Black Hist | | | Thin Dark Su | | | | Coast Prairie | e Redox (A16) (LRR K, L, R) |
| L L calco a service | | | Loamy Mucky | - | | κ, L) | 5 cm Mucky | Peat or Peat (S3) (LRR K, L, R) |
| | n Sulfide (A4) Layers (A5) | | Loamy Gleye Depleted Mat | | 2) | | Dark Surface | e (S7) (LRR K, L) |
| | Below Dark Surfa | | • | |) | | • | elow Surface (S8) (LRR K, L) |
| | k Surface (A12) | | Depleted Dar | | | | | urface (S9) (LRR K, L) |
| | icky Mineral (S1) | | Redox Depre | | | | | nese Masses (F12) (LRR K, L, R) |
| | eyed Matrix (S4) | - | | , | | | | oodplain Soils (F19) (MLRA 149B) |
| Sandy Re | - | | | | | | | c (TA6) (MLRA 144A, 145, 149B) |
| - | Matrix (S6) | | | | | | Red Parent N | |
| | ace (S7) (LRR R, M | I RA 149 | 3) | | | | - | v Dark Surface (TF12) |
| | | | | | | | Other (Expla | |
| | | etation a | nd wetland hydr | ology mus | t be prese | ent, unless disturb | ed or problematic. | |
| | yer (if observed): | | | | | | | |
| T | ype: | | None | | Hydr | ric Soil Present? | Yes | No⁄_ |
| D | epth (inches): | | | | | | · | |
| emarks: | | | | | | | | |
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Vegetation Photos



Soil Photos



| Project/Site: Garnet | City/County: Cato, Cay | uga County | Sampling Date: 202 | 20-Nov-05 |
|---------------------------------------|---|----------------------------------|---|----------------|
| Applicant/Owner: NextEra | | Sampling Point: W-JJE | 3-04; UPL-4 | |
| Investigator(s): Brian Stoos, Ryan St | now, Jacob brillo | Section, Township, Range: | | |
| Landform (hillslope, terrace, etc.): | Agricultural Field Loca | l relief (concave, convex, none) | : Flat | Slope (%): 2-5 |
| Subregion (LRR or MLRA): | | Lat: 43.1475383 Long | : -76.6007592 | Datum: WGS84 |
| Soil Map Unit Name: Ontario loam | 14 to 20 percent slopes, OnD | | NWI classification | n: None |
| Are climatic/hydrologic conditions on | the site typical for this time of year? | Yes 🟒 No (If r | no, explain in Remarks.) | |
| o | or Hydrology significantly disturbe or Hydrology naturally problemat | | stances" present? ny answers in Remarks. | Yes 🟒 No .) |

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

| Hydrophytic Vegetation Present? | Yes No 🟒 | | |
|---|-------------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes No 🟒 | Is the Sampled Area within a Wetland? | Yes No 🟒 |
| Wetland Hydrology Present? | Yes No 🟒 | If yes, optional Wetland Site ID: | |
| Remarks: (Explain alternative procedure | es here or in a separate repo | rt) | |
| | | | |
| | | | |
| TRC covertype is UPL. | | | |
| The covertype is of L. | | | |
| | | | |
| | | | |

| Wetland Hydrology Indicators: | | | | | |
|---|------------|---|---|-------------|--|
| Primary Indicators (minimum of or | e is requi | red; check all | <u>l that apply)</u> | | Secondary Indicators (minimum of two required) |
| 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 Ima Sparsely Vegetated Concave Su | 0,,,, | Aqua Marl Hydro Oxidi Prese Recer Thin I Other | r-Stained Leaves (B9) tic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) zed Rhizospheres on Living R ence of Reduced Iron (C4) nt Iron Reduction in Tilled Soi Muck Surface (C7) r (Explain in Remarks) | | 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 🟒 | Depth (inches): | | Wetland Hydrology Present? Yes No _ |
| Saturation Present? | Yes | No 🖌 | Depth (inches): | | - |
| (includes capillary fringe) | | | | | - |
| Describe Recorded Data (stream g | auge, mon | litoring well, | aerial photos, previous inspe | ctions), if | available: |
| | | | | | |

Sampling Point: <u>W-JJB-04; UPL-4</u>

| ree Stratum (Plot size: <u>30 ft</u>) | | Dominant | Indicator | Dominance Test worksh | | | |
|--|---------|-------------|-----------|--|---------------|------------|-------------|
| | | Species? | Status | Number of Dominant S Are OBL, FACW, or FAC: | • | 0 | (A) |
| | | | | Total Number of Domir Across All Strata: | ant Species | 3 | (B) |
| | | | | Percent of Dominant Sp | | 0 | (A/B) |
| | | | | Are OBL, FACW, or FAC: | | | |
| | | | | Prevalence Index works | | | _ |
| | | · | | - <u>Total % Cover</u> | | Multiply | |
| | 0 | = Total Cov | er | - OBL species _ | 0 | x 1 = | 0 |
| apling/Shrub Stratum (Plot size: <u>15 ft</u>) | | _ | | FACW species | 0 | x 2 = | 0 |
| | | | | FAC species | 0 | x 3 = | 0 |
| | | | | - FACU species | 135 | x 4 = | 540 |
| | | <u> </u> | | – UPL species | 15 | x 5 = | 75 |
| · | | · | | - Column Totals | 150 | (A) | 615 (B |
| | | · | | Prevalence In | dex = B/A = | 4.1 | |
| · | | | | Hydrophytic Vegetation | Indicators: | | |
| | | · | | 1- Rapid Test for H | lydrophytic V | 'egetatior | ı |
| | 0 | = Total Cov | er | 2 - Dominance Tes | st is > 50% | | |
| <u>erb Stratum</u> (Plot size: <u>5 ft</u>) | | | | 3 - Prevalence Ind | | | |
| . Galium mollugo | 65 | Yes | FACU | 4 - Morphological | • | | supportin |
| . Trifolium pratense | 35 | Yes | FACU | - data in Remarks or on a | • | | |
| . Trifolium repens | 30 | Yes | FACU | Problematic Hydro | | | |
| · · · · · · · · · · · · · · · · · · · | <u></u> | No | UPL | Indicators of hydric soi | | - | gy must b |
| Asclepias syriaca Solidago canadensis | 5 | No | FACU | _ present, unless disturb | | nauc | |
| | | | 17.00 | _ Definitions of Vegetatio | | | |
| | | · | | Tree – Woody plants 3 i breast height (DBH), reg | | | diametera |
| · | | <u> </u> | | Sapling/shrub – Woody | - | - | DBH and |
| | | | | greater than or equal to | | | Dirana |
| | | | | Herb – All herbaceous (| | | gardless o |
| 0 | | · | | size, and woody plants | | | 64. 4.000 C |
| 1 | | | | Woody vines – All wood | | | .28 ft in |
| 2 | | | | height. | , 0 | | |
| | 150 | = Total Cov | er | Hydrophytic Vegetation | n Present? \ | les M | No ./ |
| <u>Voody Vine Stratum</u> (Plot size: <u>30 ft</u>) | | | | | | | |
| | | | | - | | | |
| · | | | | - | | | |
| · | | · · | | - | | | |
| | | | | - | | | |
| | 0 | = Total Cov | er | | | | |

| Depth | Matrix | | Redox | Feat | | | bsence of indicators | •, | |
|---|---|-----------|---------------------|----------|---------------------------------------|--|-----------------------|--------------------|------------------------------|
| (inches) | Color (moist) | % | Color (moist) | | Type ¹ | Loc ² Te | xture | | Remarks |
| 0 - 16 | 10YR 4/4 | 100 | | | туре | | Silt Loam | | Remarks |
| | | | | · | | | | | |
| 16 - 18 | 10YR 4/4 | 100 | | | · | Graveli | y Silt Loam | | |
| | | | | · | | <u> </u> | | | |
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| · | | | | · | | | | | |
| · | | | | | | | | | |
| | | | DM - Doducod | Mat | | Macked Cand Crains 2 | acation: DL - Dara Li | ning M- | Matrix |
| | | Depietic | iii, kivi = keaucea | wat | i ix, IVIS = | Masked Sand Grains. ² L | ocation: PL = Pore Li | • | |
| | Indicators: | | Debaselise D | | · · · · · · · · · · · · · · · · · · · | | Indicators for Prol | | - |
| _ Histosol | | | | | | 8) (LRR R, MLRA 149B) | 2 cm Muck (A1 | | |
| | pipedon (A2) | | Thin Dark Su | | | | Coast Prairie F | | |
| Black His | | | Loamy Mucky | | | (LRR K, L) | 5 cm Mucky Pe | eat or Pea | t (S3) (LRR K, L, R) |
| | en Sulfide (A4) d Layers (A5) | | Loamy Gleye | | | | Dark Surface (| S7) (LRR k | (, L) |
| | d Below Dark Surfa | 200 (111 | | | | | Polyvalue Belo | w Surface | e (S8) (LRR K, L) |
| • | ark Surface (A12) | | Depleted Dark | | | | Thin Dark Surf | ace (S9) (l | _RR K, L) |
| | lucky Mineral (S1) | | Redox Depre | | | | Iron-Mangane | se Masse | s (F12) (LRR K, L, R) |
| | ileyed Matrix (S4) | | | 33101 | 13 (10) | | Piedmont Floc | dplain So | ils (F19) (MLRA 149B) |
| - | - | | | | | | Mesic Spodic (| TA6) (MLF | A 144A, 145, 149B) |
| _ Sandy R | | | | | | | Red Parent Ma | | |
| _ Stripped | d Matrix (S6) | | | | | | Very Shallow D | Dark Surfa | ice (TF12) |
| | | | | | | | Other (Explain | in Roman | ks) |
| | rface (S7) (LRR R, N | /ILRA 149 | 9B) | | | | | minemai | , |
| _ Dark Su | | | | olog | y must be | e present, unless disturbe | | minema | |
| _ Dark Sui | of hydrophytic veg | etation | | olog | y must be | e present, unless disturbe | | | · |
| _ Dark Sun ndicators of estrictive L | of hydrophytic veg .ayer (if observed): | etation | and wetland hydr | olog | y must be | | | | |
| _ Dark Sun ndicators of estrictive L | of hydrophytic veg . ayer (if observed): Type: | etation | | olog | y must be | e present, unless disturbe Hydric Soil Present? | | | _No |
| _ Dark Sun indicators of estrictive L | of hydrophytic veg .ayer (if observed): | etation | and wetland hydr | olog | y must be | | | | |
| _ Dark Sun ndicators of estrictive L | of hydrophytic veg . ayer (if observed): Type: | etation | and wetland hydr | olog | y must be | | | | |
| _ Dark Sun indicators of estrictive L | of hydrophytic veg . ayer (if observed): Type: | etation | and wetland hydr | olog | y must be | | | | |
| _ Dark Sun ndicators o | of hydrophytic veg . ayer (if observed): Type: | etation | and wetland hydr | olog | y must be | | | | |
| _ Dark Sun dicators of strictive L | of hydrophytic veg . ayer (if observed): Type: | etation | and wetland hydr | olog | y must be | | | | |
| _ Dark Sun dicators of strictive L | of hydrophytic veg . ayer (if observed): Type: | etation | and wetland hydr | olog | y must be | | | | |
| _ Dark Sun dicators of strictive L | of hydrophytic veg . ayer (if observed): Type: | etation | and wetland hydr | <u>-</u> | y must be | | | | |
| Dark Sundicators of strictive L | of hydrophytic veg . ayer (if observed): Type: | etation | and wetland hydr | | y must be | | | | |
| _ Dark Sun dicators of strictive L | of hydrophytic veg . ayer (if observed): Type: | etation | and wetland hydr | <u>-</u> | y must be | | | | |
| _ Dark Sun dicators of strictive L | of hydrophytic veg . ayer (if observed): Type: | etation | and wetland hydr | <u>-</u> | y must be | | | | |
| Dark Sundicators of strictive L | of hydrophytic veg . ayer (if observed): Type: | etation | and wetland hydr | | y must be | | | | |
| _ Dark Sun dicators of strictive L | of hydrophytic veg . ayer (if observed): Type: | etation | and wetland hydr | <u>-</u> | y must be | | | | |
| _ Dark Sun dicators of strictive L | of hydrophytic veg . ayer (if observed): Type: | etation | and wetland hydr | olog | y must be | | | | |
| _ Dark Sun | of hydrophytic veg . ayer (if observed): Type: | etation | and wetland hydr | olog | y must be | | | | |
| _ Dark Sun indicators of estrictive L | of hydrophytic veg . ayer (if observed): Type: | etation | and wetland hydr | olog | y must be | | | | |
| _ Dark Sun indicators of estrictive L | of hydrophytic veg . ayer (if observed): Type: | etation | and wetland hydr | <u>-</u> | y must be | | | | |
| _ Dark Sun indicators of estrictive L | of hydrophytic veg . ayer (if observed): Type: | etation | and wetland hydr | olog | y must be | | | | |
| _ Dark Sun indicators of estrictive L | of hydrophytic veg . ayer (if observed): Type: | etation | and wetland hydr | olog | y must be | | | | |
| _ Dark Sun | of hydrophytic veg . ayer (if observed): Type: | etation | and wetland hydr | <u>-</u> | y must be | | | | |
| Dark Sundicators of strictive L | of hydrophytic veg . ayer (if observed): Type: | etation | and wetland hydr | olog | y must be | | | | |
| Dark Sun dicators of strictive L | of hydrophytic veg . ayer (if observed): Type: | etation | and wetland hydr | olog | y must be | | | | |

Vegetation Photos



Soil Photos



| Project/Site: Garnet | | City/County: | Cato, Cayuga | | | Sampling Date: 2020-Nov-03 | | |
|--------------------------|------------------|--|--------------|-------------------|----------|--|-------------------|--|
| Applicant/Owner: Ne | extEra | | | State: NY | | Sampling Point: W-JJB-05; PEM-1 | | |
| Investigator(s): Jake E | Brillo, Ryan Sno | ow, Jacob brillo | Sect | ion, Township, Ra | nge: | | | |
| Landform (hillslope, ter | race, etc.): | Agricultural Field | Local relief | (concave, convex, | , none): | Hillside seepage | Slope (%): 5-10 | |
| Subregion (LRR or MLR/ | A): LRR R | | Lat: | 43.1504178727 | Long: | -76.5948362068 | Datum: WGS84 | |
| Soil Map Unit Name: | Ontario silt lo | am, 3 to 8 percent, OnB | | | | NWI classifica | ation: | |
| Are climatic/hydrologic | conditions on | the site typical for this time | of year? | Yes 🟒 No 🔄 | (If no | o, explain in Remarl | ks.) | |
| 0 | | or Hydrology significant or Hydrology naturally p | 5 | | | tances" present? ly answers in Rema | Yes 🟒 No rks.) | |

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

| Hydrophytic Vegetation Present? | Yes 🟒 No | | | | | | | | |
|--|----------|---------------------------------------|----------|--|--|--|--|--|--|
| Hydric Soil Present? | Yes 🟒 No | Is the Sampled Area within a Wetland? | Yes 🧹 No | | | | | | |
| Wetland Hydrology Present? | Yes 🟒 No | lf yes, optional Wetland Site ID: | W-JJB-05 | | | | | | |
| Remarks: (Explain alternative procedures here or in a separate report) | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| TRC covertype is PEM. | | | | | | | | | |
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| Wetland Hydrology Indicators: | | | |
|--|---|--|--|
| Primary Indicators (minimum o | f one is required; check all | <u>that apply)</u> | Secondary Indicators (minimum of two required) |
| 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 Sparsely Vegetated Concave | Aquat Marl I Hydro Oxidiz Presei Recen Thin M Imagery (B7) Other | -Stained Leaves (B9) ic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) red Rhizospheres on Living Roots (C3) nce of Reduced Iron (C4) it Iron Reduction in Tilled Soils (C6) Auck Surface (C7) (Explain in Remarks) | 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 🟒 | Depth (inches): | Wetland Hydrology Present? Yes No |
| Saturation Present? | Yes 🟒 No | Depth (inches): 0 | |
| (includes capillary fringe) | | | |
| Remarks: | m gauge, monitoring well, a | aerial photos, previous inspections), if | available: |

Sampling Point: <u>W-JJB-05; PEM-1</u>

| ree Stratum (Plot size: <u>30 ft</u>) | Absolute | Dominant | Indicator | Dominance Test worksheet: | | |
|--|----------|-------------|-----------|---|-----------------|------------|
| | % Cover | Species? | Status | Number of Dominant Species Th Are OBL, FACW, or FAC: | ^{at} 2 | (A) |
| | | | | - Total Number of Dominant Spec | ies 2 | (B) |
| | | | | Percent of Dominant Species Th | | |
| · | | | | - Are OBL, FACW, or FAC: | 100 | (A/B) |
| · | | | | - Prevalence Index worksheet: | | |
| · | | | | - Total % Cover of: | Multiply | Bv: |
| · | | | | - OBL species 55 | x 1 = | 55 |
| | 0 | = Total Cov | er | FACW species 10 | x 2 = | 20 |
| apling/Shrub Stratum (Plot size: <u>15 ft</u>) | | | | FAC species 20 | x 3 = | 60 |
| | | | | - FACU species 0 | x 4 = | 0 |
| | | | | – UPL species 0 | x 5 = | 0 |
| | | | | – Column Totals 85 | (A) | 135 (B) |
| | | | | Prevalence Index = B// | | 155 (B |
| · | | | | Hydrophytic Vegetation Indicato | | |
| | | | | - 1- Rapid Test for Hydrophy | | |
| | | | | 2 - Dominance Test is >50% | - | |
| | 0 | = Total Cov | er | \checkmark 3 - Prevalence Index is \leq 3. | | |
| <u>erb Stratum</u> (Plot size: <u>5 ft</u>) | | | | 4 - Morphological Adaptatio | | supportin |
| . Lythrum salicaria | 40 | Yes | OBL | - data in Remarks or on a separat | | supportin |
| . Solidago rugosa | 20 | Yes | FAC | Problematic Hydrophytic V | | plain) |
| . Typha angustifolia | 15 | No | OBL | - ¹ Indicators of hydric soil and we | 0 | |
| . Cyperus esculentus | 10 | No | FACW | _ present, unless disturbed or pro | | |
| | | | | Definitions of Vegetation Strata: | | |
| | | | | Tree – Woody plants 3 in. (7.6 cm |) or more in (| diameter a |
| | | | | breast height (DBH), regardless | of height. | |
| | | | | Sapling/shrub – Woody plants le | ss than 3 in. D | OBH and |
| | | | | greater than or equal to 3.28 ft (| | |
| 0. | | | | Herb – All herbaceous (non-woo | dy) plants, reg | gardless o |
| 1 | | | | size, and woody plants less than | | |
| 2. | | | | Woody vines – All woody vines g | reater than 3. | 28 ft in |
| | 85 | = Total Cov | er | height. | | |
| <u>Voody Vine Stratum</u> (Plot size: <u>30 ft</u>) | | - | | Hydrophytic Vegetation Present | ?Yes 🟒 N | lo |
| | | | | | | |
| | | | | - | | |
| | | | | - | | |
| | | | | - | | |
| | 0 | = Total Cov | er | - | | |

| Depth M | latrix | Redo | x Features | | | |
|--|--|-----------------------------------|---------------------|--|--|--|
| nches) Color (| moist) % | Color (moist) | % Type ¹ | Loc ² | Texture | Remarks |
|) - 16 7.5YF | R 4/2 90 | 10YR 5/8 | 10 C | M/PL Sand | dy Clay Loam | |
| | | | · | · · | | |
| | | | · | | | |
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| | | | | | | |
| e: C = Concentra | tion. D = Deple | etion. RM = Reduce | d Matrix. MS | = Masked Sand Grains. | ² Location: PL = Pore I | ining, M = Matrix. |
| ric Soil Indicators | | , | , | | | blematic Hydric Soils ³ : |
| Histosol (A1) | | Polyvalue B | elow Surface | (S8) (LRR R, MLRA 149B | , | 10) (LRR K, L, MLRA 149B) |
| Histic Epipedon (A | 42) | | | RR R, MLRA 149B) | | Redox (A16) (LRR K, L, R) |
| Black Histic (A3) | () () | | ky Mineral (F1 | | 5 cm Mucky P | eat or Peat (S3) (LRR K, L, R) |
| Hydrogen Sulfide Stratified Layers (| | Loamy Gley _✔ Depleted N | |) | Dark Surface | |
| | | (11) Redox Dark | | | - | ow Surface (S8) (LRR K, L) |
| , Thick Dark Surfac | | Depleted D | | 7) | | face (S9) (LRR K, L) |
| | | | | | Iron-Mangane | ese Masses (F12) (LRR K, L, R) |
| | ieral (S1) | Redox Dep | ressions (F8) | | 0 | |
| Sandy Mucky Min | | Redox Dep | ressions (F8) | | Piedmont Flo | odplain Soils (F19) (MLRA 149B) |
| Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5) | trix (S4) | Redox Dep | ressions (F8) | | Piedmont Flo Mesic Spodic | odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) |
| Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5) Stripped Matrix (S | trix (S4) 56) | | ressions (F8) | | Piedmont Flo Mesic Spodic Red Parent M | odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) |
| Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5) | trix (S4) 56) | | ressions (F8) | | Piedmont Flo Mesic Spodic Red Parent M | odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12) |
| Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5) Stripped Matrix (S Dark Surface (S7) | trix (S4) 56) (LRR R, MLRA | 149B) | | be present, unless distu | Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explain | odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12) |
| Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5) Stripped Matrix (S Dark Surface (S7) Jicators of hydrop | trix (S4) S6) (LRR R, MLRA bhytic vegetatio | 149B) | | be present, unless distu | Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explain | odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12) |
| Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5) Stripped Matrix (S Dark Surface (S7) dicators of hydrop | trix (S4) S6) (LRR R, MLRA bhytic vegetatio | 149B) | | be present, unless distu Hydric Soil Present? | Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explain | odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12) |
| Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5) Stripped Matrix (S Dark Surface (S7) licators of hydrop trictive Layer (if ol | trix (54) 56) (LRR R, MLRA bhytic vegetation bserved): | 149B) on and wetland hy | | | Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explain | odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12) n in Remarks) |
| Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5) Stripped Matrix (S Dark Surface (S7) licators of hydrop trictive Layer (if ol Type: Depth (in | trix (54) 56) (LRR R, MLRA bhytic vegetation bserved): | 149B) on and wetland hy | | | Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explain | odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12) n in Remarks) |
| Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5) Stripped Matrix (S Dark Surface (S7) licators of hydrop trictive Layer (if ol Type: Depth (in | trix (54) 56) (LRR R, MLRA bhytic vegetation bserved): | 149B) on and wetland hy | | | Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explain | odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12) n in Remarks) |
| Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5) Stripped Matrix (S Dark Surface (S7) <u>icators of hydrop</u> trictive Layer (if ol Type: Depth (in | trix (54) 56) (LRR R, MLRA bhytic vegetation bserved): | 149B) on and wetland hy | | | Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explain | odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12) n in Remarks) |
| Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5) Stripped Matrix (S Dark Surface (S7) icators of hydrop irictive Layer (if ol Type: Depth (in | trix (54) 56) (LRR R, MLRA bhytic vegetation bserved): | 149B) on and wetland hy | | | Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explain | odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12) n in Remarks) |
| Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5) Stripped Matrix (S Dark Surface (S7) icators of hydrop rictive Layer (if ol Type: Depth (in | trix (54) 56) (LRR R, MLRA bhytic vegetation bserved): | 149B) on and wetland hy | | | Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explain | odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12) n in Remarks) |
| Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5) Stripped Matrix (S Dark Surface (S7) <u>icators of hydrop</u> trictive Layer (if ol Type: Depth (in | trix (54) 56) (LRR R, MLRA bhytic vegetation bserved): | 149B) on and wetland hy | | | Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explain | odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12) n in Remarks) |
| Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5) Stripped Matrix (S Dark Surface (S7) <u>icators of hydrop</u> trictive Layer (if ol Type: Depth (in | trix (54) 56) (LRR R, MLRA bhytic vegetation bserved): | 149B) on and wetland hy | | | Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explain | odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12) n in Remarks) |
| Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5) Stripped Matrix (S Dark Surface (S7) icators of hydrop irictive Layer (if ol Type: Depth (in- harks: | trix (54) (LRR R, MLRA bytic vegetation bserved): | 149B) on and wetland hy | | | Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explain | odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12) n in Remarks) |
| Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5) Stripped Matrix (S Dark Surface (S7) icators of hydrop irictive Layer (if ol Type: Depth (in- harks: | trix (54) (LRR R, MLRA bytic vegetation bserved): | 149B) on and wetland hy | | | Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explain | odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12) n in Remarks) |
| Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5) Stripped Matrix (S Dark Surface (S7) licators of hydrop trictive Layer (if ol Type: Depth (in- narks: | trix (54) (LRR R, MLRA bytic vegetation bserved): | 149B) on and wetland hy | | | Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explain | odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12) n in Remarks) |
| Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5) Stripped Matrix (S Dark Surface (S7) dicators of hydrop trictive Layer (if ol Type: Depth (in- narks: | trix (54) (LRR R, MLRA bytic vegetation bserved): | 149B) on and wetland hy | | | Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explain | odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12) n in Remarks) |
| Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5) Stripped Matrix (S Dark Surface (S7) dicators of hydrop strictive Layer (if ol Type: Depth (in marks: | trix (54) (LRR R, MLRA bytic vegetation bserved): | 149B) on and wetland hy | | | Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explain | odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12) n in Remarks) |
| Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5) Stripped Matrix (S Dark Surface (S7) dicators of hydrop strictive Layer (if ol Type: | trix (54) (LRR R, MLRA bytic vegetation bserved): | 149B) on and wetland hy | | | Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explain | odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12) n in Remarks) |
| Sandy Mucky Min Sandy Gleyed Ma Sandy Redox (S5) Stripped Matrix (S Dark Surface (S7) dicators of hydrop strictive Layer (if ol Type: Depth (in- marks: | trix (54) (LRR R, MLRA bytic vegetation bserved): | 149B) on and wetland hy | | | Piedmont Flo Mesic Spodic Red Parent M Very Shallow Other (Explain | odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12) n in Remarks) |

Soil Photos



Photo of Sample Plot



Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

| Project/Site: Garnet | | City/County: C | ato, Cayuga | | | Sampling Date: 2020-Nov-03 | | |
|-------------------------|-----------------|-------------------------------------|----------------|---|----------|---------------------------------|------------------|--|
| Applicant/Owner: N | lextEra | | State: NY | | | Sampling Point: W-JJB-05; UPL-1 | | |
| Investigator(s): Jake | Brillo, Ryan Sr | now, Jacob brillo | Secti | on, Township, Ra | nge: | | | |
| Landform (hillslope, te | rrace, etc.): | Agricultural Field | Local relief (| ocal relief (concave, convex, none): Convex | | | Slope (%): 15-20 | |
| Subregion (LRR or MLF | RA): LRR | R | Lat: | 43.1538270603 | Long: | -76.5998214408 | Datum: WGS84 | |
| Soil Map Unit Name: | Ontario silt l | oam, 14 to 20 percent slopes | | | | NWI classific | ation: | |
| Are climatic/hydrologie | c conditions or | n the site typical for this time of | i year? | Yes 🟒 No 🔄 | (lf n | o, explain in Remar | rks.) | |
| Are Vegetation, | Soil, | or Hydrology significantly | v disturbed? | Are "Normal C | Circums | tances" present? | Yes 🟒 No | |
| Are Vegetation, | Soil, | or Hydrology naturally pr | oblematic? | (If needed, ex | plain ar | ny answers in Rema | arks.) | |

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

| Hydrophytic Vegetation Present? | Yes No 🟒 | | |
|---|-------------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes No 🟒 | Is the Sampled Area within a Wetland? | Yes No 🟒 |
| Wetland Hydrology Present? | Yes No _ | If yes, optional Wetland Site ID: | |
| Remarks: (Explain alternative procedure | es here or in a separate repo | rt) | |
| | | | |
| | | | |
| TRC covertype is UPL. | | | |
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| Wetland Hydrology Indicators: | | | | | | | |
|---|------------|---|---|-------------|--|--|--|
| Primary Indicators (minimum of or | e is requi | red; check all | <u>l that apply)</u> | | Secondary Indicators (minimum of two required) | | |
| 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 Ima Sparsely Vegetated Concave Su | 0,,,, | Aqua Marl Hydro Oxidi Prese Recer Thin I Other | r-Stained Leaves (B9) tic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) zed Rhizospheres on Living R ence of Reduced Iron (C4) nt Iron Reduction in Tilled Soi Muck Surface (C7) r (Explain in Remarks) | | 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 🟒 | Depth (inches): | | Wetland Hydrology Present? Yes No _ | | |
| Saturation Present? | Yes | No 🖌 | Depth (inches): | | - | | |
| (includes capillary fringe) | | | | | - | | |
| Describe Recorded Data (stream g | auge, mon | litoring well, | aerial photos, previous inspe | ctions), if | available: | | |
| | | | | | | | |

Sampling Point: <u>W-JJB-05; UPL-1</u>

| | Dominant Species? | Indicator Status | | pecies That | 0 | (A) |
|----|----------------------|---------------------|------------------------|--|--|--|
| | | | Total Number of Domin | | 2 | (B) |
| | | | Percent of Dominant Sp | ecies That | 0 | (A/B) |
| | | | | heet: | | |
| | | | | | Multiply | Bv: |
| | | | - OBL species | 0 | x 1 = | 0 |
| 0 | = Total Cov | er | FACW species | 0 | x 2 = | 0 |
| | | | FAC species | 0 | x 3 = | 0 |
| | | | _ | 30 | - | 120 |
| | | | · · - | 0 | - | 0 |
| | | | · · | - | - | 120 (B) |
| | | | _ | | | 120 (8) |
| | | | | | | |
| | | | , , , , | | | |
| | | | | | egetation/ | 1 |
| 0 | = Total Cov | er | | | | |
| | - | | | | | |
| 20 | Yes | FACU | | | | supporting |
| 10 | Yes | FACU | | - | | |
| | | | | | | • |
| | | | , | | 2 | gy must be |
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| | | | | | | diameter a |
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| | | | | | | 28 ft in |
| | | | - | y vines great | | .2010111 |
| 30 | = Total Cov | er | | - Para +2 -) | / N | |
| | | | Hydrophytic vegetation | i Present? | res r | NO <u>/</u> |
| | | | _ | | | |
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| | | | _ | | | |
| | | | | Are OBL, FACW, or FAC: Total Number of Dominant Sp. Are OBL, FACW, or FAC: Percent of Dominant Sp. Are OBL, FACW, or FAC: Prevalence Index works Total % Cover O O Total % Cover O O Total % Cover O O Total % Cover O FACW species FACU species FACU species O Prevalence In Hydrophytic Vegetation | Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: India % Cover of: O 0 = Total Cover FAC species 0 = Total Cover | Are OBL, FACW, or FAC: 0 Total Number of Dominant Species 2 Across All Strata: Percent of Dominant Species That 0 Prevalence Index worksheet: 0 Total % Cover of: Multiply O = Total Cover FAC species 0 x1 = FAC species 0 x2 = FAC species 0 x3 = FAC species 0 x5 = Column Totals 30 (A) Prevalence Index = B/A = 4 UPL species 0 x5 = Column Totals 30 (A) Prevalence Index = B/A = 4 UPL species 0 x5 = Column Totals 30 (A) Prevalence Index is < 3.01 |

| Depth | Matrix | | Redox | | | | confirm the a | | |
|---------------------------------------|---|-----------|--|--------|-------------------|------------------|---------------------------|-------------------|---|
| inches) | Color (moist) | % | Color (moist) | | Type ¹ | Loc ² | Textu | re | Remarks |
| 0 - 20 | 10YR 4/4 | 100 | | · | | | Sandy L | oam | |
| | | · | | | | | | · | |
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| ype: C = C | Concentration, D = [| Depletio | n, RM = Reduced | Mati | rix, MS = | Masked Sa | nd Grains. ² L | .ocation: PL = Po | pre Lining, M = Matrix. |
| dric Soil (| Indicators: | | | | | | | Indicators for | Problematic Hydric Soils ³ : |
| – Histosol – Histic Ep Black Hi | pipedon (A2) | | Polyvalue Bel Thin Dark Su Loamy Mucky | rface | (S9) (LR R | R, MLRA 1 | - | Coast Prai | k (A10) (LRR K, L, MLRA 149B) irie Redox (A16) (LRR K, L, R) |
| _ _Hydroge | en Sulfide (A4) | | Loamy Gleye | d Ma | trix (F2) | (211111, 2) | | | ky Peat or Peat (S3) (LRR K, L, R) ace (S7) (LRR K, L) |
| | d Layers (A5) d Below Dark Surfa | | Depleted Ma Redox Dark S | | | | | Polyvalue | Below Surface (S8) (LRR K, L) |
| Thick Da | ark Surface (A12) | | Depleted Dar | 'k Sui | face (F7) | | | | Surface (S9) (LRR K, L) ganese Masses (F12) (LRR K, L, R) |
| | lucky Mineral (S1) leyed Matrix (S4) | | Redox Depre | ssion | is (F8) | | | Piedmont | Floodplain Soils (F19) (MLRA 149B |
| - | edox (S5) | | | | | | | | dic (TA6) (MLRA 144A, 145, 149B) nt Material (F21) |
| | d Matrix (S6) | | | | | | | | ow Dark Surface (TF12) |
| _ Dark Su | rface (S7) (LRR R, M | LRA 149 | 9B) | | | | | Other (Exp | olain in Remarks) |
| | of hydrophytic vege | etation a | and wetland hydr | olog | y must be | e present, ι | nless disturbe | ed or problemati | ic. |
| | Layer (if observed): Type: | | None | | | Hydric So | l Present? | , | Yes No 🟒 |
| | Depth (inches): | | | • | | | | | |
| marks: | | | | | | | | | |
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Soil Photos



Photo of Sample Plot



| Project/Site: Garnet | | City/Cou | nty: Cato, Cayuga | | | Sampling Date: 2020-Nov-04 | | |
|-------------------------|-----------------|-----------------------------|--------------------|--------------------|----------|---------------------------------|----------------|--|
| Applicant/Owner: N | lextEra | | | State: NY | | Sampling Point: W-JJB-06; PEM-1 | | |
| Investigator(s): Jake | Brillo, Ryan Sr | ow, Jacob brillo | Sec | tion, Township, Ra | nge: | | | |
| Landform (hillslope, te | rrace, etc.): | Agricultural Field | Local relief | (concave, convex, | none): | Concave | Slope (%): 2-5 | |
| Subregion (LRR or MLF | RA): LRR F | 2 | Lat: | 43.1459349707 | Long: | -76.6031799071 | Datum: WGS84 | |
| Soil Map Unit Name: | Ontario fine | sandy loam, 8 to 15 perc | ent slopes. OfC | | | NWI classific | ation: None | |
| Are climatic/hydrologie | c conditions or | the site typical for this t | ime of year? | Yes 🟒 No 🔄 | (If no | o, explain in Remai | rks.) | |
| Are Vegetation, | Soil, | or Hydrology signifi | icantly disturbed? | Are "Normal (| Circums | tances" present? | Yes 🟒 No | |
| Are Vegetation, | Soil, | or Hydrology natur | ally problematic? | (If needed, ex | plain an | y answers in Rema | arks.) | |

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

| Hydrophytic Vegetation Present? | Yes 🟒 No | | | | |
|--|----------|---------------------------------------|----------|--|--|
| Hydric Soil Present? | Yes 🟒 No | Is the Sampled Area within a Wetland? | Yes 🟒 No | | |
| Wetland Hydrology Present? | Yes 🟒 No | If yes, optional Wetland Site ID: | W-JJB-06 | | |
| Remarks: (Explain alternative procedures here or in a separate report) | | | | | |
| | | | | | |
| | | | | | |
| TRC covertype is PEM. | | | | | |
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| Wetland Hydrology Indicators: | | | | |
|--|---|--|--|--|
| Primary Indicators (minimum o | f one is required; check all | Secondary Indicators (minimum of two required) | | |
| 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 Sparsely Vegetated Concave | Aquat Marl E Hydro Oxidiz Preser Recen Thin M Imagery (B7) Other | -Stained Leaves (B9) ic Fauna (B13) Deposits (B15) gen Sulfide Odor (C1) red Rhizospheres on Living Roots (C3) nce of Reduced Iron (C4) t Iron Reduction in Tilled Soils (C6) Auck Surface (C7) (Explain in Remarks) | 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 🟒 | Depth (inches): | Wetland Hydrology Present? Yes No | |
| Saturation Present? | Yes 🟒 No _ | Depth (inches): 0 | | |
| (includes capillary fringe) | | | | |
| Describe Recorded Data (strear Remarks: | n gauge, monitoring well, a | aerial photos, previous inspections), if | available: | |

Sampling Point: <u>W-JJB-06; PEM-1</u>

| ree Stratum (Plot size: <u>30 ft</u>) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test works Number of Dominant S | | | |
|--|---------------------|----------------------|---------------------|---|--------------------|-------------------------|----------------------|
| | | · | | Are OBL, FACW, or FAC: | - | 0 | (A) |
| | | | | Total Number of Domir Across All Strata: | ant Species | 0 | (B) |
| | | | | Percent of Dominant S | pecies That | | |
| l | | | | Are OBL, FACW, or FAC: | | | (A/B) |
| | | | | Prevalence Index works | | | |
| | | | | - <u>Total % Cover</u> | | Multiply I | Rv. |
| 7 | | | | — OBL species | 0 | x 1 = | ير . 0 |
| | 0 | = Total Cover | | FACW species | 0 | x 2 = | 0 |
| Sapling/Shrub Stratum (Plot size: <u>15 ft</u> | _) | | | FAC species | 0 | x 3 = | 0 |
| l | | | | — FACU species | 0 | × 4 = | 0 |
| 2 | | | | UPL species | | _ | - |
| 3. | | | | | 0 | x 5 = | 0 |
| 4. | | | | — Column Totals | 0 | (A) | 0 (B) |
| 5. | | | | Prevalence In | dex = B/A = | | |
| | | | | Hydrophytic Vegetatior | Indicators: | | |
| 7 | | | | 1- Rapid Test for H | lydrophytic \ | /egetation | |
| / | 0 | = Total Cover | | 2 - Dominance Tes | st is > 50% | | |
| Herb Stratum (Plot size: <u>5 ft</u>) | 0 | | | 3 - Prevalence Ind | ex is $\leq 3.0^1$ | | |
| | | | | 4 - Morphological | Adaptations | ¹ (Provide s | supporting |
| | | | | — data in Remarks or on a | | | |
| | · | | | Problematic Hydro | | | |
| 3 | · | | | Indicators of hydric so | | | y must be |
| 4 | | | | present, unless disturb | ed or proble | matic | |
| 5 | | | | Definitions of Vegetation | n Strata: | | |
| 5 | | | | Tree – Woody plants 3 i | n. (7.6 cm) oi | r more in c | liameter a |
| 7 | | | | breast height (DBH), re | gardless of h | eight. | |
| 3 | | | | Sapling/shrub – Woody | - | | BH and |
| Э | | | | greater than or equal to | | | |
| 10 | | | | Herb – All herbaceous (| - | | ardless of |
| 11 | | | | size, and woody plants | | | |
| 12 | | | | Woody vines – All wood | ly vines grea | ter than 3. | 28 ft in |
| | 0 | = Total Cover | | height. | | | |
| Noody Vine Stratum (Plot size: <u>30 ft</u>) | | | | Hydrophytic Vegetatio | n Present? | res 🟒 N | 0 |
| - | | | | | | | |
| 2. | | | | - | | | |
| 3 | · | | | - | | | |
| | · | | | - | | | |
| | 0 | = Total Cover | | - | | | |
| 4 | | | | | | | |

| | - | to the | - | | | indicator or confirm t | he absence of indicator | s.) |
|-------------------------|-----------------------------|----------|-------------------|--------|-------------------|------------------------|------------------------------------|--|
| Depth | Matrix | | Redox | | | | | |
| (inches) | Color (moist) | <u>%</u> | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0 - 12 | 10YR 4/2 | 92 | 7.5YR 4/6 | 8 | C | M | Silty Clay | |
| 12 - 20 | 10YR 5/6 | 85 | 10YR 3/1 | 15 | D | M San | dy Clay Loam | |
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| | | | | | | | | |
| 1 Type: C = 0 | Concentration, D = | Deplet | ion, RM = Reduce | d Mat | rix, MS = | Masked Sand Grains | ² Location: PL = Pore I | _ _ining, M = Matrix. |
| Hydric Soil | | | - | | | | | blematic Hydric Soils ³ : |
| Histoso | | | Polyvalue Be | elow S | Surface (S | 8) (LRR R, MLRA 149E | | 10) (LRR K, L, MLRA 149B) |
| | pipedon (A2) | | | | | R, MLRA 149B) | | Redox (A16) (LRR K, L, R) |
| | istic (A3) | | Loamy Muck | | | | | |
| | en Sulfide (A4) | | Loamy Gleye | - | | . , , | | Peat or Peat (S3) (LRR K, L, R) |
| | d Layers (A5) | | Depleted Ma | | | | Dark Surface | |
| Deplete | d Below Dark Surfa | ace (A1 | 1) Redox Dark | Surfa | ce (F6) | | | ow Surface (S8) (LRR K, L) |
| Thick D | ark Surface (A12) | | Depleted Da | ark Su | rface (F7) |) | | face (S9) (LRR K, L) |
| Sandy M | lucky Mineral (S1) | | Redox Depr | essio | ns (F8) | | • | ese Masses (F12) (LRR K, L, R) |
| | Gleyed Matrix (S4) | | | | . , | | | odplain Soils (F19) (MLRA 149B) |
| - | Redox (S5) | | | | | | | (TA6) (MLRA 144A, 145, 149B) |
| - | d Matrix (S6) | | | | | | Red Parent M | |
| | | 11 DA 1 | 40D) | | | | | Dark Surface (TF12) |
| Dark SU | rface (S7) (LRR R, M | ILKA I | 490) | | | | Other (Explain | n in Remarks) |
| ³ Indicators | of hydrophytic veg | etatior | n and wetland hyd | Irolog | y must b | e present, unless dist | urbed or problematic. | |
| Restrictive | Layer (if observed): | | | _ | - | | · · · · | |
| | Type: | | None | | | Hydric Soil Present? | • | Yes 🟒 No |
| | Depth (inches): | | Hone | - | | rigane son resent. | | |
| Deveralises | Depth (inches). | | | | | | | <u>.</u> |
| Remarks: | | | | | | | | |
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Soil Photos



Photo of Sample Plot

| Project/Site: Garnet | | Cit | ty/County: Cato, | Cayuga | | | Sampling Date: | 2020-Nov-04 |
|--------------------------|-----------------|------------------------------|--------------------|--------------|-------------------|----------|---------------------------------------|-----------------|
| Applicant/Owner: Ne | extEra | | | | State: NY | | Sampling Point: | W-JJB-06; PFO-1 |
| Investigator(s): Jake E | Brillo, Ryan Sn | ow, Jacob brillo | | Sect | ion, Township, Ra | ange: | | |
| Landform (hillslope, ter | race, etc.): | Depression | I | Local relief | (concave, convex | , none): | Concave | Slope (%): 0-1 |
| Subregion (LRR or MLR | A): LRR F | 2 | | Lat: | 43.1454756421 | Long: | -76.6027972726 | Datum: WGS84 |
| Soil Map Unit Name: | Alden mucky | silt loam, till subs | tratum. Ad | | | | NWI classifi | cation: PFO |
| Are climatic/hydrologic | conditions or | the site typical fo | r this time of yea | ır? | Yes 🟒 No 🔄 | (If n | o, explain in Rema | irks.) |
| 0 | | or Hydrology or Hydrology | - 0 , | | | | tances" present? ny answers in Rem | |

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

| Hydrophytic Vegetation Present? | Yes 🟒 No | | |
|---|----------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes 🟒 No | Is the Sampled Area within a Wetland? | Yes 🟒 No |
| Wetland Hydrology Present? | Yes 🟒 No | If yes, optional Wetland Site ID: | W-JJB-06 |
| Remarks: (Explain alternative procedures he | re or in a separate report |) | |
| | | | |
| | | | |
| TRC covertype is PFO. | | | |
| TRC covertype is PPO. | | | |
| | | | |
| | | | |

| Wetland Hydrology Indicators | : | | | |
|--|---|--|-------------|--|
| Primary Indicators (minimum | of one is required; check al | <u>ll that apply)</u> | | Secondary Indicators (minimum of two required) |
| 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 Aeria Sparsely Vegetated Concav | Aqua Marl Hydr Oxid Preso Rece Thin al Imagery (B7) Othe | er-Stained Leaves (B9) atic Fauna (B13) Deposits (B15) rogen Sulfide Odor (C1) ized Rhizospheres on Living F ence of Reduced Iron (C4) ent Iron Reduction in Tilled So Muck Surface (C7) er (Explain in Remarks) | | 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): | 1 | _ |
| Water Table Present? | Yes 🟒 No | Depth (inches): | 0 | Wetland Hydrology Present? Yes No |
| Saturation Present? | Yes 🟒 No | Depth (inches): | 0 | |
| (includes capillary fringe) | | | | |
| Describe Recorded Data (strea | am gauge, monitoring well, | aerial photos, previous inspe | ctions), if | available: |

Sampling Point: W-JJB-06; PFO-1

| Tree Stratum (Plot size: <u>30 ft</u>) | | Dominant Species? | Indicator Status | Dominance Test worksheet: Number of Dominant Species That | 4 | (A) |
|--|----|----------------------|---------------------|--|-------------------------|-------------|
| . Thuja occidentalis | 60 | Yes | FACW | Are OBL, FACW, or FAC: | | (~) |
| . Acer rubrum | 20 | Yes | FAC | Total Number of Dominant Species Across All Strata: | 4 | (B) |
| · | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: | 100 | (A/B) |
| j | | | | Prevalence Index worksheet: | | |
| · | | | | Total % Cover of: | Multiply I | Rv. |
| · | | | | · OBL species 0 | x 1 = | - <u></u> 0 |
| | 80 | = Total Cov | er | FACW species 85 | x 2 = | 170 |
| apling/Shrub Stratum (Plot size: <u>15 ft</u>) | | | | FAC species 20 | x3= | 60 |
| . Thuja occidentalis | 15 | Yes | FACW | - FACU species 0 | x 4 = | 0 |
| | | | | · · · | _ | |
| | | | | | x 5 = | 0 |
| | | . <u> </u> | | Column Totals 105 | (A) | 230 (B) |
| | | | | Prevalence Index = B/A = | 2.2 | |
| | | · | | Hydrophytic Vegetation Indicators: | | |
| | | | | 1- Rapid Test for Hydrophytic \ | /egetation | |
| · | 15 | = Total Cov | o.r. | 2 - Dominance Test is >50% | | |
| | 15 | | er | \checkmark 3 - Prevalence Index is ≤ 3.0 ¹ | | |
| erb Stratum (Plot size: <u>5 ft</u>) | 10 | | 54.614 | 4 - Morphological Adaptations | ¹ (Provide s | supporting |
| . Thelypteris palustris | 10 | Yes | FACW | data in Remarks or on a separate sh | neet) | |
| | | | | Problematic Hydrophytic Vege | tation ¹ (Ex | plain) |
| | | | | ¹ Indicators of hydric soil and wetlan | d hydrolog | y must be |
| · | · | | | present, unless disturbed or proble | matic | - |
| | | | | Definitions of Vegetation Strata: | | |
| | | | | Tree – Woody plants 3 in. (7.6 cm) o | r more in c | liameter a |
| | | | | breast height (DBH), regardless of h | eight. | |
| | | . <u> </u> | | Sapling/shrub – Woody plants less t | han 3 in. D | BH and |
| | | | | greater than or equal to 3.28 ft (1 m | | |
| 0. | | | | Herb – All herbaceous (non-woody) | | ardless of |
| 1. | | | | size, and woody plants less than 3.2 | | |
| | | | | Woody vines – All woody vines grea | ter than 3. | 28 ft in |
| 2 | | | | height. | | |
| <u>Voody Vine Stratum</u> (Plot size: <u>30 ft</u>) | 10 | = Total Cov | er | Hydrophytic Vegetation Present? | Yes 🟒 N | o |
| | | | | | | |
| · | | | | • | | |
| | , | <u> </u> | | · | | |
| | | · | | • | | |
| | | | | - | | |
| | 0 | = Total Cov | er | | | |

| Depth | Matrix | to the d | - | ocument the Features | indicator or confirm the | absence of indicators.) |
|--|---|-----------|--------------------------|----------------------------|---------------------------|---|
| (inches) | Color (moist) | % | Color (moist) | <u>%</u> Type ¹ | Loc ² Texture | Remarks |
| 0 - 20 | 10YR 2/1 | 100 | | | Muck | |
| | | | | | | |
| - | | | | | | |
| - | | | | | | |
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| | | | | · <u> </u> | | |
| | Concontration D - | | p PM - Poducod | Matrix MC - | - Masked Sand Grains | 2 ocation: DL - Doro Liping M - Matrix |
| | | Depletic | n, Rivi – Reduced | Watrix, WS - | = Masked Sand Grains. | ² Location: PL = Pore Lining, M = Matrix. |
| Histosol | Indicators: | | Debaselus Del | and Crimfo and (| | Indicators for Problematic Hydric Soils ³ : |
| | . , | | , | - | S8) (LRR R, MLRA 149B) | 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| HISUC EL Black Hi | pipedon (A2) | | Thin Dark Sui | | | Coast Prairie Redox (A16) (LRR K, L, R) |
| | en Sulfide (A4) | | Loamy Gleye | | | 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| | d Layers (A5) | | Depleted Mat | | | Dark Surface (S7) (LRR K, L) |
| | d Below Dark Surfa | ace (A11 | | | | Polyvalue Below Surface (S8) (LRR K, L) |
| Thick Da | ark Surface (A12) | | Depleted Dar | k Surface (F7 | 7) | Thin Dark Surface (S9) (LRR K, L) |
| Sandy N | lucky Mineral (S1) | | Redox Depre | ssions (F8) | | Iron-Manganese Masses (F12) (LRR K, L, R) |
| Sandy G | Gleyed Matrix (S4) | | | | | Piedmont Floodplain Soils (F19) (MLRA 149B) |
| Sandy R | edox (S5) | | | | | Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) |
| Stripped | d Matrix (S6) | | | | | Very Shallow Dark Surface (TF12) |
| D 1 - | rface (S7) (LRR R, N | ILRA 14 | 9B) | | | Other (Explain in Remarks) |
| Dark Su | | | | | oe present, unless distur | |
| | of hydrophytic veg | etation | and wetland hydr | ology must l | be present, anness aistan | |
| Indicators | | | and wetland hydr | ology must l | | |
| Indicators Restrictive I | of hydrophytic veg | | and wetland hydr None | ology must l | Hydric Soil Present? | Yes _ 🖌 No |
| Indicators Restrictive I | of hydrophytic veg L ayer (if observed): Type: | | | rology must l | | |
| Indicators Restrictive I | of hydrophytic veg L ayer (if observed): | | | rology must l | | |
| Indicators Restrictive I | of hydrophytic veg L ayer (if observed): Type: | | | rology must t | | |
| Indicators Restrictive I | of hydrophytic veg L ayer (if observed): Type: | | | rology must t | | |
| Indicators Restrictive I | of hydrophytic veg L ayer (if observed): Type: | | | ology must f | | |
| estrictive l | of hydrophytic veg L ayer (if observed): Type: | | | ology must l | | |
| estrictive l | of hydrophytic veg L ayer (if observed): Type: | | | ology must l | | |
| ndicators estrictive l | of hydrophytic veg L ayer (if observed): Type: | | | ology must l | | |
| estrictive l | of hydrophytic veg L ayer (if observed): Type: | | | ology must l | | |
| estrictive l | of hydrophytic veg L ayer (if observed): Type: | | | ology must l | | |
| Indicators Restrictive I | of hydrophytic veg L ayer (if observed): Type: | | | ology must l | | |
| Indicators Restrictive I | of hydrophytic veg L ayer (if observed): Type: | | | ology must l | | |
| estrictive l | of hydrophytic veg L ayer (if observed): Type: | | | ology must l | | |
| Indicators Restrictive I | of hydrophytic veg L ayer (if observed): Type: | | | ology must l | | |
| Indicators Restrictive I | of hydrophytic veg L ayer (if observed): Type: | | | ology must l | | |
| ^a Indicators Restrictive I | of hydrophytic veg L ayer (if observed): Type: | | | ology must l | | |
| ³ Indicators Restrictive I | of hydrophytic veg L ayer (if observed): Type: | | | ology must l | | |
| ^a Indicators Restrictive I | of hydrophytic veg L ayer (if observed): Type: | | | ology must l | | |
| Indicators Restrictive I | of hydrophytic veg L ayer (if observed): Type: | | | ology must l | | |
| Indicators Restrictive I | of hydrophytic veg L ayer (if observed): Type: | | | ology must l | | |
| ndicators estrictive l | of hydrophytic veg L ayer (if observed): Type: | | | ology must l | | |

Soil Photos



| Project/Site: Garnet | | City/County: Cate | o, Cayuga | | | Sampling Date: | 2020-Nov-04 |
|---------------------------|-------------------------|-------------------------------|--------------|------------------|----------|---------------------|-----------------|
| Applicant/Owner: Nex | xtEra | | | State: NY | | Sampling Point: V | V-JJB-06; PFO-2 |
| Investigator(s): Jake B | Brillo, Ryan Snow, Jaco | ob brillo | Secti | on, Township, Ra | nge: | | |
| Landform (hillslope, terr | race, etc.): Depre | ession | Local relief | concave, convex, | none): | Concave | Slope (%): 1-10 |
| Subregion (LRR or MLRA | A): LRR R | | Lat: | 43.1455738598 | Long: | -76.6033755208 | Datum: WGS84 |
| Soil Map Unit Name: | Applteton and Lyson | n soils, 0 to 3 percent slope | es. AsB | | | NWI classifica | ation: |
| Are climatic/hydrologic o | conditions on the site | e typical for this time of ye | ear? | Yes 🟒 No 🔄 | (If no | o, explain in Remar | ks.) |
| Are Vegetation, S | Soil, or Hydr | ology significantly di | sturbed? | Are "Normal C | ircums | tances" present? | Yes 🟒 No |
| Are Vegetation, S | Soil, or Hydr | ology naturally prob | lematic? | (If needed, exp | olain ar | iy answers in Rema | ırks.) |

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

| Hydrophytic Vegetation Present? | Yes 🟒 No | | |
|---|-----------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes 🟒 No | Is the Sampled Area within a Wetland? | Yes 🟒 No |
| Wetland Hydrology Present? | Yes 🟒 No | If yes, optional Wetland Site ID: | W-JJB-06 |
| Remarks: (Explain alternative procedures he | ere or in a separate report |) | |
| | | | |
| | | | |
| TRC covertype is PFO. | | | |
| The covertype is PPO. | | | |
| | | | |
| | | | |

| Wetland Hydrology Indicators | : | | | |
|--|--|--|-------------|--|
| Primary Indicators (minimum | of one is required; check al | ll that apply) | | Secondary Indicators (minimum of two required) |
| ✓ 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 Aeri Sparsely Vegetated Conca | Aqua Marl Hydr Oxidi Prese Rece Thin al Imagery (B7) Othe | rr-Stained Leaves (B9) itic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) ized Rhizospheres on Living R ence of Reduced Iron (C4) nt Iron Reduction in Tilled Soi Muck Surface (C7) r (Explain in Remarks) | | 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): | 1 | _ |
| Water Table Present? | Yes 🟒 No | Depth (inches): | 2 | Wetland Hydrology Present? Yes No |
| Saturation Present? | Yes 🟒 No | Depth (inches): | 0 | |
| (includes capillary fringe) | | | | |
| Describe Recorded Data (stre | am gauge, monitoring well, | aerial photos, previous inspe | ctions), if | available: |

Sampling Point: W-JJB-06; PFO-2

| ree Stratum (Plot size: <u>30 ft</u>) | | Dominant Species? | Indicator Status | Dominance Test worksheet: Number of Dominant Species That | 3 | (4) |
|--|----|----------------------|---------------------|--|-----------------------|-------------|
| . Acer rubrum | 40 | Yes | FAC | Are OBL, FACW, or FAC: | | (A) |
| | | · | | Total Number of Dominant Species Across All Strata: | 4 | (B) |
| | | · | | Percent of Dominant Species That | 75 | (A/B) |
| | | | | Are OBL, FACW, or FAC: | | |
| | | | | Prevalence Index worksheet: | | _ |
| | | · | | Total % Cover of: | Multiply | |
| | | = Total Cov | er | OBL species 0 | x 1 = | 0 |
| apling/Shrub Stratum (Plot size: <u>15 ft</u>) | | - | | FACW species 0 | x 2 = | 0 |
| | | | | FAC species 80 | x 3 = | 240 |
| | | | | FACU species 40 | x 4 = | 160 |
| | | · | | UPL species 0 | x 5 = | 0 |
| | | <u> </u> | | Column Totals 120 | (A) | 400 (B) |
| · · · · · · · · · · · · · · · · · · · | | | | Prevalence Index = B/A = | 3.3 | |
| | | <u> </u> | | Hydrophytic Vegetation Indicators: | | |
| | | | | 1- Rapid Test for Hydrophytic | Vegetation | |
| · | | | | ✓ 2 - Dominance Test is >50% | 0 | |
| | 0 | = Total Cov | er | 3 - Prevalence Index is $\leq 3.0^{1}$ | | |
| erb Stratum (Plot size: <u>5 ft</u>) | | | | 4 - Morphological Adaptations | ¹ (Provide | supportin |
| Ageratina altissima | 40 | Yes | FACU | data in Remarks or on a separate s | | sapportin |
| . Euthamia graminifolia | 20 | Yes | FAC | Problematic Hydrophytic Vege | | olain) |
| . Clematis virginiana | 20 | Yes | FAC | ¹ Indicators of hydric soil and wetlar | | |
| | | | | present, unless disturbed or proble | | 59 111050 0 |
| | | · | | Definitions of Vegetation Strata: | | |
| | | | | Tree – Woody plants 3 in. (7.6 cm) o | r more in (| diamotor |
| | | | | breast height (DBH), regardless of h | | |
| · | | · | | Sapling/shrub – Woody plants less | - |)BH and |
| | | <u> </u> | | greater than or equal to 3.28 ft (1 m | | birana |
| | | <u> </u> | | Herb – All herbaceous (non-woody) | | ardless o |
| 0 | | <u> </u> | | size, and woody plants less than 3.2 | | ,ui uicoo o |
| 1 | | · | | Woody vines – All woody vines grea | | 28 ft in |
| 2 | | | | height. | | 201011 |
| | 80 | = Total Cov | er | Hydrophytic Vegetation Present? | | |
| <u>Voody Vine Stratum</u> (Plot size: <u>30 ft</u>) | | | | Hydrophytic vegetation Present? | | .0 |
| | | | | | | |
| | | | | . | | |
| | | | | . | | |
| | | | | . | | |
| | 0 | = Total Cov | er | | | |
| Remarks: (Include photo numbers here or on a sepa | | = Total Cov | er | | | |

| Depth | Matrix | | Redo | x Fea | tures | | | |
|--|--|--|--------------------------|-------------|-------------------|-------------------------|---|--|
| nches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0 - 20 | 10YR 2/1 | 90 | 7.5YR 4/6 | 5 | С | M/PL | Silty Clay Loam | |
| | | | | | | | | |
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| | Concentration, D = | Deplet | ion, RM = Reduce | d Ma | trix, MS = | Masked Sand Gr | ains. ² Location: PL = F | Pore Lining, M = Matrix. |
| | Indicators: | | | | . , . | | | or Problematic Hydric Soils ³ : |
| Histosol | l (A1) | | Polyvalue B | elow | Surface (| S8) (LRR R, MLRA | 149B) 2 cm Mu | ick (A10) (LRR K, L, MLRA 149B) |
| | pipedon (A2) | | | | | R R, MLRA 149B) | Coast Pr | airie Redox (A16) (LRR K, L, R) |
| Black Hi | istic (A3) en Sulfide (A4) | | Loamy Muc | - | |) (LRR K, L) | | icky Peat or Peat (S3) (LRR K, L, R) |
| | d Layers (A5) | | Loamy Gley Depleted M | | | | | face (S7) (LRR K, L) |
| | d Below Dark Surfa | ace (A1 | - | | | | | e Below Surface (S8) (LRR K, L) |
| | ark Surface (A12) | , and the second s | Depleted Da | | | ') | | k Surface (S9) (LRR K, L) |
| | /lucky Mineral (S1) | | Redox Depr | ressio | ns (F8) | | | nganese Masses (F12) (LRR K, L, R) |
| | | | | | | | | nt Floodplain Soils (F19) (MLRA 149B) |
| Sandy G | Gleyed Matrix (S4) | | | | | | | A DIA (TAC) (NAL DA 144A 14E 1400) |
| - | Gleyed Matrix (S4) Redox (S5) | | | | | | | oodic (TA6) (MLRA 144A, 145, 149B) |
| Sandy R | - | | | | | | Red Pare | ent Material (F21) |
| Sandy R Stripped | Redox (S5) | ILRA 1 | 49B) | | | | Red Pare Very Sha | |
| Sandy R Stripped Dark Su | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M | | | drolog | gy must b | e present, unless | Red Pare Very Sha | ent Material (F21) illow Dark Surface (TF12) xplain in Remarks) |
| Sandy R Stripped Dark Su dicators | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M | etatior | | drolog | gy must b | e present, unless | Red Pare Very Sha Other (E | ent Material (F21) illow Dark Surface (TF12) xplain in Remarks) |
| Sandy R Stripped Dark Su dicators trictive L | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg | etatior | | drolog | gy must b | e present, unless | Red Pare Very Sha Other (E disturbed or problema | ent Material (F21) illow Dark Surface (TF12) xplain in Remarks) |
| Sandy R Stripped Dark Su dicators strictive L | Redox (S5) d Matrix (S6) nrface (S7) (LRR R, M of hydrophytic veg Layer (if observed): | etatior | n and wetland hyd | drolog | gy must t | | Red Pare Very Sha Other (E disturbed or problema | ent Material (F21) Illow Dark Surface (TF12) xplain in Remarks) atic. |
| Sandy R Strippec Dark Su dicators d trictive L | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyd | drolog - | gy must t | | Red Pare Very Sha Other (E disturbed or problema | ent Material (F21) Illow Dark Surface (TF12) xplain in Remarks) atic. |
| Sandy R Strippec Dark Su licators (trictive L | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyd | drolog - | gy must t | | Red Pare Very Sha Other (E disturbed or problema | ent Material (F21) Illow Dark Surface (TF12) xplain in Remarks) atic. |
| Sandy R Stripped Dark Su licators d trictive L | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyd | droloş - | gy must t | | Red Pare Very Sha Other (E disturbed or problema | ent Material (F21) Illow Dark Surface (TF12) xplain in Remarks) atic. |
| Sandy R Stripped Dark Su icators (trictive L | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyd | drolog - | gy must b | | Red Pare Very Sha Other (E disturbed or problema | ent Material (F21) Illow Dark Surface (TF12) xplain in Remarks) atic. |
| Sandy R Strippec Dark Su licators (trictive L | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyd | drolog - | gy must b | | Red Pare Very Sha Other (E disturbed or problema | ent Material (F21) Illow Dark Surface (TF12) xplain in Remarks) atic. |
| Sandy R Stripped Dark Su licators d trictive L | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyd | drolog | gy must t | | Red Pare Very Sha Other (E disturbed or problema | ent Material (F21) Illow Dark Surface (TF12) xplain in Remarks) atic. |
| Sandy R Stripped Dark Su licators d trictive L | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyd | droloş - | gy must t | | Red Pare Very Sha Other (E disturbed or problema | ent Material (F21) Illow Dark Surface (TF12) xplain in Remarks) atic. |
| Sandy R Strippec Dark Su licators (t rictive L | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyd | drolog | gy must t | | Red Pare Very Sha Other (E disturbed or problema | ent Material (F21) Illow Dark Surface (TF12) xplain in Remarks) atic. |
| Sandy R Stripped Dark Su licators d trictive L | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyd | droloş - | gy must t | | Red Pare Very Sha Other (E disturbed or problema | ent Material (F21) Illow Dark Surface (TF12) xplain in Remarks) atic. |
| Sandy R Strippec Dark Su licators (t rictive L | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyd | droloş - | gy must b | | Red Pare Very Sha Other (E disturbed or problema | ent Material (F21) Illow Dark Surface (TF12) xplain in Remarks) atic. |
| Sandy R Stripped Dark Su dicators d trictive L | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyd | droloş - | gy must E | | Red Pare Very Sha Other (E disturbed or problema | ent Material (F21) Illow Dark Surface (TF12) xplain in Remarks) atic. |
| Sandy R Stripped Dark Su dicators strictive L | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyd | - - | gy must t | | Red Pare Very Sha Other (E disturbed or problema | ent Material (F21) Illow Dark Surface (TF12) xplain in Remarks) atic. |
| Sandy R Stripped Dark Su dicators strictive L | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyd | - | gy must b | | Red Pare Very Sha Other (E disturbed or problema | ent Material (F21) Illow Dark Surface (TF12) xplain in Remarks) atic. |
| Sandy R Stripped Dark Su dicators d trictive L | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyd | droloş - | gy must b | | Red Pare Very Sha Other (E disturbed or problema | ent Material (F21) Illow Dark Surface (TF12) xplain in Remarks) atic. |
| Sandy R Strippec Dark Su licators trictive L | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyd | drolog | gy must E | | Red Pare Very Sha Other (E disturbed or problema | ent Material (F21) Illow Dark Surface (TF12) xplain in Remarks) atic. |
| Sandy R Strippec Dark Su dicators d trictive L | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyd | drolog | gy must t | | Red Pare Very Sha Other (E disturbed or problema | ent Material (F21) Illow Dark Surface (TF12) xplain in Remarks) atic. |

Photo of Sample Plot



| Project/Site: Garnet | | City | //County: Cato, Cay | uga | | | Sampling Date: | 2020-Nov-04 |
|-------------------------|-----------------|------------------------|--|----------|-------------------|----------|---------------------------------------|--------------------|
| Applicant/Owner: N | lextEra | | | | State: NY | | Sampling Point: | W-JJB-06; PSS-1 |
| Investigator(s): Jake | Brillo, Ryan Sn | ow, Jacob brillo | | Sect | ion, Township, Ra | inge: | | |
| Landform (hillslope, te | rrace, etc.): | Swale | Loca | l relief | (concave, convex, | , none): | Concave | Slope (%): 0-1 |
| Subregion (LRR or MLR | RA): LRR F | R | | Lat: | 43.1471513885 | Long: | -76.6025516035 | Datum: WGS84 |
| Soil Map Unit Name: | Alden mucky | silt loam, till substi | ratum. Ad | | | | NWI classifi | cation: None |
| Are climatic/hydrologic | c conditions on | the site typical for | this time of year? | | Yes 🟒 No 🔄 | (If n | o, explain in Rema | rks.) |
| 0 | | , , , | significantly disturb naturally problemat | | | | tances" present? ny answers in Rem | Yes 🟒 No arks.) |

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

| Hydrophytic Vegetation Present? | Yes 🟒 No | | |
|---|-----------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes 🟒 No | Is the Sampled Area within a Wetland? | Yes 🧹 No |
| Wetland Hydrology Present? | Yes 🟒 No | If yes, optional Wetland Site ID: | W-JJB-06 |
| Remarks: (Explain alternative procedures he | ere or in a separate report |) | |
| | | | |
| | | | |
| TRC covertype is PSS. | | | |
| The covertype is F35. | | | |
| | | | |
| | | | |

| Wetland Hydrology Indicators | : | | | |
|---|-----------------------------|--|--------------|--|
| Primary Indicators (minimum | of one is required; check a | <u>ll that apply)</u> | | Secondary Indicators (minimum of two required) |
| 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 Aeria Sparsely Vegetated Concard | UUU | 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): | 1 | _ |
| Water Table Present? | Yes 🟒 No | Depth (inches): | 0 | Wetland Hydrology Present? Yes No |
| Saturation Present? | Yes 🟒 No | Depth (inches): | 0 | |
| (includes capillary fringe) | | | | |
| Describe Recorded Data (strea | am gauge, monitoring well, | , aerial photos, previous insp | ections), if | available: |

Sampling Point: W-JJB-06; PSS-1

| <u>Tree Stratum</u> (Plot size: <u>30 ft</u>) | | Dominant | | Dominance Test worksheet: | | |
|---|----|-------------|--------|--|-------------------|------------|
| | | Species? | Status | Number of Dominant Species That Are OBL, FACW, or FAC: | 4 | (A) |
| · | | | | Total Number of Dominant Species | | |
| · | | | | Across All Strata: | 4 | (B) |
| | | | | Percent of Dominant Species That | 100 | (4 (D) |
| | | | | Are OBL, FACW, or FAC: | 100 | (A/B) |
| | | · | | Prevalence Index worksheet: | | |
| | | | | Total % Cover of: | <u>Multiply E</u> | <u>by:</u> |
| · | | = Total Cov | er | - OBL species 0 | x 1 = | 0 |
| apling/Shrub Stratum (Plot size: <u>15 ft</u>) | | - | | FACW species 105 | x 2 = | 210 |
| . Cornus alba | 60 | Yes | FACW | FAC species <u>30</u> | x 3 = | 90 |
| . Viburnum dentatum | 30 | Yes | FAC | FACU species 0 | x 4 = | 0 |
| | | 105 | i / le | UPL species 0 | x 5 = | 0 |
| ·· | | | | Column Totals 135 | (A) | 300 (B) |
| ·· | | | | Prevalence Index = B/A = | 2.2 | |
| · · · · · · · · · · · · · · · · · · · | | | | Hydrophytic Vegetation Indicators: | | |
| | | | | 1- Rapid Test for Hydrophytic | Vegetation | |
| | 90 | = Total Cov | or | 2 - Dominance Test is >50% | | |
| lerb Stratum (Plot size: <u>5 ft</u>) | | - | CI | 4 3 - Prevalence Index is $\leq 3.0^{1}$ | | |
| . Phalaris arundinacea | 30 | Yes | FACW | 4 - Morphological Adaptations | | upporting |
| . Equisetum pratense | 15 | Yes | FACW | data in Remarks or on a separate sl | | |
| 3. | 15 | 105 | incir | Problematic Hydrophytic Vege | | |
| 1. | | | | ¹ Indicators of hydric soil and wetlar | , 0 | y must be |
| · | | <u> </u> | | present, unless disturbed or proble | matic | |
| | | . <u> </u> | | Definitions of Vegetation Strata: | | |
| 7. | | . <u> </u> | | Tree – Woody plants 3 in. (7.6 cm) o breast height (DBH), regardless of h | | lameter a |
| · | | . <u> </u> | | Sapling/shrub – Woody plants less t | | BH and |
|). | | . <u> </u> | | greater than or equal to 3.28 ft (1 m | | birana |
| 0. | | <u> </u> | | Herb – All herbaceous (non-woody) | | ardless of |
| 1. | | | | size, and woody plants less than 3.2 | | |
| 2. | | | | Woody vines – All woody vines grea | ter than 3.2 | 28 ft in |
| ۷ | 45 | = Total Cov | or | height. | | |
| <u>Noody Vine Stratum (</u> Plot size: <u>30 ft</u>) | 40 | | | Hydrophytic Vegetation Present? | Yes 🧹 No |) |
| - | | | | | | |
| | | | | - | | |
| 3. | | | | - | | |
| s 4. | | | | - | | |
| + | 0 | = Total Cov | | - | | |
| | 0 | | el | | | |

| Depth (inches) | Matrix | | Redo> | | | | bsence of indicate | , |
|-------------------------|----------------------------------|----------|--------------------|------------|-------------------|------------------------------------|--------------------|---|
| (inches) | Matrix | | | | | | | Demerike |
| 0 20 | Color (moist) | <u>%</u> | Color (moist) | | Type ¹ | Loc ² Textu | | Remarks |
| 0 - 20 | 10YR 2/1 | 70 | 7.5YR 5/6 | 30 | C | M Mucky L | oam | |
| | | · | | · | | · | | |
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| Turnet C = C | | | | | NC - | Maaluad Canad Cusing 2 | | Lining M - Matuix |
| | | Jepieti | ion, RIVI = Reduce | u Matr | ix, MS = | Masked Sand Grains. ² L | | |
| Hydric Soil | | | | | f | | indicators for P | roblematic Hydric Soils ³ : |
| Histoso | | | • | | | 8) (LRR R, MLRA 149B) | | A10) (LRR K, L, MLRA 149B) |
| | pipedon (A2) | | | | | R, MLRA 149B) | Coast Prairi | e Redox (A16) (LRR K, L, R) |
| Black Hi | | | Loamy Mucl | - | | (LKK K, L) | - | Peat or Peat (S3) (LRR K, L, R) |
| | en Sulfide (A4) d Layers (A5) | | Loamy Gleye | | | | Dark Surfac | |
| | d Below Dark Surfa | مرم (1۵ | | | - | | Polyvalue B | elow Surface (S8) (LRR K, L) |
| | ark Surface (A12) | | Depleted Dark | | | | | urface (S9) (LRR K, L) |
| | lucky Mineral (S1) | | Redox Depr | | | | Iron-Manga | nese Masses (F12) (LRR K, L, R) |
| | Gleyed Matrix (S4) | | | 0001011 | 5 (10) | | Piedmont Fl | oodplain Soils (F19) (MLRA 149B) |
| - | Redox (S5) | | | | | | Mesic Spodi | c (TA6) (MLRA 144A, 145, 149B) |
| - | d Matrix (S6) | | | | | | | Material (F21) |
| | rface (S7) (LRR R, M | | 100) | | | | - | v Dark Surface (TF12) |
| Dark Su | | | +90) | | | | Other (Expla | iin in Remarks) |
| ³ Indicators | of hydrophytic veg | etation | and wetland hyd | Irology | must be | e present, unless disturbe | ed or problematic | |
| Restrictive | Layer (if observed): | | | | | | | |
| | Type: | | None | | | Hydric Soil Present? | Ye | s 🟒 No |
| | Depth (inches): | | | | | | | |
| | | | | | | | | |
| Remarks: | | | | | | | | |
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Soil Photos



| Project/Site: Garnet | | c | i ty/County: Cat | o, Cayuga | | | Sampling Date: | 2020-Nov-04 |
|-------------------------|-----------------|----------------------|-------------------------|--------------|-------------------|----------|--------------------|-----------------|
| Applicant/Owner: N | lextEra | | | | State: NY | | Sampling Point: | W-JJB-06; UPL-1 |
| Investigator(s): Jake | Brillo, Ryan Sn | ow, Jacob brillo | | Sect | ion, Township, Ra | inge: | | |
| Landform (hillslope, te | rrace, etc.): | Hillslope | | Local relief | (concave, convex, | , none): | Convex | Slope (%): 5-10 |
| Subregion (LRR or MLF | RA): LRR F | ł | | Lat: | 43.1472287188 | Long: | -76.6023909631 | Datum: WGS84 |
| Soil Map Unit Name: | Alden Mucky | silt loam, till sub | stratum. Ad | | | | NWI classific | cation: |
| Are climatic/hydrologic | c conditions on | the site typical for | or this time of ye | ear? | Yes 🟒 No 🔄 | (If no | o, explain in Rema | rks.) |
| Are Vegetation, | Soil, | or Hydrology | _ significantly di | isturbed? | Are "Normal (| Circums | tances" present? | Yes 🟒 No |
| Are Vegetation, | Soil, | or Hydrology | _ naturally prob | lematic? | (If needed, ex | plain ar | ny answers in Rem | arks.) |

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

| Hydrophytic Vegetation Present? | Yes No 🟒 | | |
|---|-------------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes No 🟒 | Is the Sampled Area within a Wetland? | Yes No 🟒 |
| Wetland Hydrology Present? | Yes No 🟒 | If yes, optional Wetland Site ID: | |
| Remarks: (Explain alternative procedure | es here or in a separate repo | rt) | |
| | | | |
| | | | |
| TRC covertype is UPL. | | | |
| The covertype is of L. | | | |
| | | | |
| | | | |

| Wetland Hydrology Indicators: | | | | |
|--|---------------------|--|----------------------------------|--|
| Primary Indicators (minimum of on | <u>e is require</u> | d; check all tha | t apply) | Secondary Indicators (minimum of two required) |
| 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 Ima Sparsely Vegetated Concave Sur | 0 | 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 I | No 🟒 | Depth (inches): | |
| Water Table Present? | Yes I | No 🔽 | Depth (inches): | Wetland Hydrology Present? Yes No |
| Saturation Present? | Yes I | No 🟒 | Depth (inches): | |
| (includes capillary fringe) | | | | |
| Describe Recorded Data (stream ga | auge, monit | oring well, aeria | al photos, previous inspections) | if available: |
| | | | | |

Sampling Point: <u>W-JJB-06; UPL-1</u>

| <u>Tree Stratum</u> (Plot size: <u>30 ft</u>) | | Dominant | | Dominance Test worksheet: | | |
|---|----|-------------|--------|--|---------------------------|------------|
| | | Species? | Status | Number of Dominant Species That | 1 | (A) |
| . Pinus strobus | 40 | Yes | FACU | Are OBL, FACW, or FAC: | | |
| . Prunus serotina | 25 | Yes | FACU | Total Number of Dominant Species Across All Strata: | 5 | (B) |
| | | | | Percent of Dominant Species That | 20 | (A/B) |
| · · · · · · · · · · · · · · · · · · · | | | | Are OBL, FACW, or FAC: | | (,,,,,,) |
| | | | | Prevalence Index worksheet: | | |
| | | · | | Total % Cover of: | <u>Multiply I</u> | <u>By:</u> |
| | | = Total Cov | or | OBL species 0 | x 1 = | 0 |
| anling/Chrub Stratum (Plat size) 15 ft) | 0 | - 10tal COV | ei | FACW species 0 | x 2 = | 0 |
| apling/Shrub Stratum (Plot size: <u>15 ft</u>) | 20 | | FAC | FAC species 20 | x 3 = | 60 |
| . Rhamnus cathartica | 20 | Yes | FAC | FACU species 115 | x 4 = | 460 |
| | | <u> </u> | | UPL species 0 | x 5 = | 0 |
| | | | | Column Totals 135 | (A) | 520 (B |
| | | · | | Prevalence Index = B/A = | 3.9 | |
| | | · | | Hydrophytic Vegetation Indicators: | | |
| | | · | | 1- Rapid Test for Hydrophytic | Vegetation | |
| | | - Total Cau | | 2 - Dominance Test is > 50% | | |
| | 20 | = Total Cov | er | 3 - Prevalence Index is ≤ 3.0^1 | | |
| lerb Stratum (Plot size: <u>5 ft</u>) | | | | 4 - Morphological Adaptation | s ¹ (Provide s | supportin |
| . Solidago altissima | 30 | Yes | FACU | data in Remarks or on a separate s | heet) | |
| . Rosa multiflora | 20 | Yes | FACU | Problematic Hydrophytic Veg | etation ¹ (Ex | plain) |
| B | | | | ¹ Indicators of hydric soil and wetla | nd hydrolog | gy must b |
| l | | | | present, unless disturbed or proble | ematic | |
| | | | | Definitions of Vegetation Strata: | | |
| 5 | | | | Tree – Woody plants 3 in. (7.6 cm) o | or more in d | liameter a |
| 7. | | | | breast height (DBH), regardless of | neight. | |
| 3. | | | | Sapling/shrub – Woody plants less | than 3 in. D | BH and |
|). | | | | greater than or equal to 3.28 ft (1 r | n) tall. | |
| 0 | | | | Herb – All herbaceous (non-woody |) plants, reg | ardless o |
| 11 | | · | | size, and woody plants less than 3. | 28 ft tall. | |
| 2 | | | | Woody vines – All woody vines grea | ater than 3.2 | 28 ft in |
| | 50 | = Total Cov | er | height. | | |
| <u>Noody Vine Stratum (Plot size:30 ft</u>) | | - | | Hydrophytic Vegetation Present? | Yes N | o 🖌 |
| | | | | | | |
| · | | · | | | | |
| 3. | | <u> </u> | | | | |
| | | <u> </u> | | | | |
| 1 | | | | | | |
| | 0 | = Total Cov | er | | | |

| Depth | Matrix | | Redox | Feat | | | ne absence of indicators. | |
|---|---|----------|------------------|--------------|-------------------|---|--|--|
| nches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0 - 20 | 10YR 4/3 | 100 | | | | | / Clay Loam | |
| | | | | | | | · · · · · | |
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| be: C = C | Concentration, D = | Depletic | n, RM = Reduced | Mati | rix, MS = | Masked Sand Grains. | ² Location: PL = Pore Li | ning, M = Matrix. |
| | Indicators: | | | | - | | | blematic Hydric Soils ³ : |
| Histosol | | | Polyvalue Bel | ow S | urface (S | 8) (LRR R, MLRA 149B | ` | 0) (LRR K, L, MLRA 149B) |
| | pipedon (A2) | | • | | | R, MLRA 149B) | | |
| | istic (A3) | | Loamy Mucky | | | | | edox (A16) (LRR K, L, R) |
| | en Sulfide (A4) | | Loamy Gleyed | | | | • | eat or Peat (S3) (LRR K, L, R) |
| | d Layers (A5) | | Depleted Mat | | | | Dark Surface (S | w Surface (S8) (LRR K, L) |
| Deplete | d Below Dark Surfa | ace (A11 |) Redox Dark S | urfa | ce (F6) | | Thin Dark Surfa | |
| Thick Da | ark Surface (A12) | | Depleted Dar | k Sui | rface (F7) | | | se Masses (F12) (LRR K, L, R) |
| Sandv M | lucky Mineral (S1) | | Redox Depre | ssior | is (F8) | | - | dplain Soils (F19) (MLRA 149B) |
| | | | | | | | | upiairi 30iis (F19) (MLKA 1490) |
| - | Gleyed Matrix (S4) | | | | | | Mosic Spodic (| TAG) (MI DA 144A 14E 1400) |
| Sandy G | - | | | | | | | TA6) (MLRA 144A, 145, 149B) |
| Sandy G Sandy R | leyed Matrix (S4) | | | | | | Red Parent Ma | terial (F21) |
| Sandy G Sandy R Stripped | Gleyed Matrix (S4) Redox (S5) | 1LRA 149 | 9B) | | | | Red Parent Ma Very Shallow D | terial (F21) Park Surface (TF12) |
| Sandy G Sandy R Strippec Dark Su | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, N | | | | | | Red Parent Ma Very Shallow D Other (Explain | terial (F21) Park Surface (TF12) |
| Sandy G Sandy R Strippec Dark Su dicators o | Gleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg | etation | | ology | y must be | e present, unless distr | Red Parent Ma Very Shallow D | terial (F21) Park Surface (TF12) |
| Sandy G Sandy R Strippec Dark Su dicators o | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, N | etation | | ology | y must be | e present, unless disti | Red Parent Ma Very Shallow D Other (Explain | terial (F21) Park Surface (TF12) |
| Sandy G Sandy R Stripped Dark Su licators d trictive L | Gleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, N of hydrophytic veg | etation | | ology | y must be | e present, unless disti Hydric Soil Present? | Red Parent Ma Very Shallow D Other (Explain urbed or problematic. | terial (F21) Park Surface (TF12) |
| Sandy G Sandy R Strippec Dark Su licators (trictive L | Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed): | etation | and wetland hydr | ology | y must be | | Red Parent Ma Very Shallow D Other (Explain urbed or problematic. | terial (F21) vark Surface (TF12) in Remarks) |
| Sandy G Sandy R Stripped Dark Su licators d trictive L | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydr | olog | y must be | | Red Parent Ma Very Shallow D Other (Explain urbed or problematic. | terial (F21) vark Surface (TF12) in Remarks) |
| Sandy G Sandy R Strippec Dark Su licators d trictive L | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydr | olog | y must be | | Red Parent Ma Very Shallow D Other (Explain urbed or problematic. | terial (F21) vark Surface (TF12) in Remarks) |
| Sandy G Sandy R Strippec Dark Su icators (rictive L | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydr | ology | y must be | | Red Parent Ma Very Shallow D Other (Explain urbed or problematic. | terial (F21) vark Surface (TF12) in Remarks) |
| Sandy G Sandy R Strippec Dark Su icators o rictive L | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydr | ology | y must be | | Red Parent Ma Very Shallow D Other (Explain urbed or problematic. | terial (F21) vark Surface (TF12) in Remarks) |
| Gandy G Gandy R Strippec Dark Su cators o rictive L | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydr | olog | y must be | | Red Parent Ma Very Shallow D Other (Explain urbed or problematic. | terial (F21) vark Surface (TF12) in Remarks) |
| Gandy G Gandy R Strippec Dark Su cators o rictive L | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydr | olog | y must be | | Red Parent Ma Very Shallow D Other (Explain urbed or problematic. | terial (F21) vark Surface (TF12) in Remarks) |
| Sandy G Sandy R Strippec Dark Su icators (rictive L | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydr | olog | y must be | | Red Parent Ma Very Shallow D Other (Explain urbed or problematic. | terial (F21) vark Surface (TF12) in Remarks) |
| Sandy G Sandy R Strippec Dark Su icators (rictive L | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydr | olog <u></u> | y must be | | Red Parent Ma Very Shallow D Other (Explain urbed or problematic. | terial (F21) vark Surface (TF12) in Remarks) |
| Sandy G Sandy R Strippec Dark Su icators (trictive L | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydr | | y must be | | Red Parent Ma Very Shallow D Other (Explain urbed or problematic. | terial (F21) vark Surface (TF12) in Remarks) |
| Sandy G Sandy R Strippec Dark Su icators (rictive L | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydr | olog | y must be | | Red Parent Ma Very Shallow D Other (Explain urbed or problematic. | terial (F21) vark Surface (TF12) in Remarks) |
| Gandy G Gandy R Strippec Dark Su cators o rictive L | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydr | <u>.</u> | y must be | | Red Parent Ma Very Shallow D Other (Explain urbed or problematic. | terial (F21) vark Surface (TF12) in Remarks) |
| Sandy G Sandy R Strippec Dark Su icators o rictive L | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydr | | y must be | | Red Parent Ma Very Shallow D Other (Explain urbed or problematic. | terial (F21) vark Surface (TF12) in Remarks) |
| Sandy G Sandy R Strippec Dark Su icators (rictive L | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydr | olog | y must be | | Red Parent Ma Very Shallow D Other (Explain urbed or problematic. | terial (F21) vark Surface (TF12) in Remarks) |
| Sandy G Sandy R Stripped Dark Su licators d trictive L | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydr | <u>olog</u> | y must be | | Red Parent Ma Very Shallow D Other (Explain urbed or problematic. | terial (F21) vark Surface (TF12) in Remarks) |
| Sandy G Sandy R Strippec Dark Su licators (trictive L | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydr | <u>.</u> | y must be | | Red Parent Ma Very Shallow D Other (Explain urbed or problematic. | terial (F21) vark Surface (TF12) in Remarks) |
| Sandy G Sandy R Strippec Dark Su licators (trictive L | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydr | <u>olog</u> | y must be | | Red Parent Ma Very Shallow D Other (Explain urbed or problematic. | terial (F21) vark Surface (TF12) in Remarks) |
| Sandy G Sandy R Strippec Dark Su licators (trictive L | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydr | <u>olog</u> | y must be | | Red Parent Ma Very Shallow D Other (Explain urbed or problematic. | terial (F21) vark Surface (TF12) in Remarks) |
| Sandy G Sandy R Stripped Dark Su licators d trictive L | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydr | <u>olog</u> | y must be | | Red Parent Ma Very Shallow D Other (Explain urbed or problematic. | terial (F21) vark Surface (TF12) in Remarks) |
| Sandy G Sandy R Strippec Dark Su icators (trictive L | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) rface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etation | and wetland hydr | <u>olog</u> | y must be | | Red Parent Ma Very Shallow D Other (Explain urbed or problematic. | terial (F21) vark Surface (TF12) in Remarks) |

Soil Photos



Photo of Sample Plot



US Army Corps of Engineers

Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

| Project/Site: Garnet | | Ci | ty/County: Cato, | Cayuga | | | Sampling Date: | 2020-Nov-04 |
|--------------------------|-----------------|------------------------------|--------------------|--------------|-------------------|----------|---------------------------------------|-----------------|
| Applicant/Owner: N | extEra | | | | State: NY | | Sampling Point: | W-JJB-06; UPL-2 |
| Investigator(s): Jake | Brillo, Ryan Sn | ow, Jacob brillo | | Sect | ion, Township, Ra | nge: | | |
| Landform (hillslope, ter | rrace, etc.): | Hillslope | I | Local relief | (concave, convex, | , none): | Convex | Slope (%): 2-5 |
| Subregion (LRR or MLR | A): LRR R | | | Lat: | 43.1454692462 | Long: | -76.6026142923 | Datum: WGS84 |
| Soil Map Unit Name: | Alden mucky | silt loam, till subs | tratum. Ad | | | | NWI classifi | cation: PFO |
| Are climatic/hydrologic | conditions on | the site typical fo | r this time of yea | ır? | Yes 🟒 No 🔄 | (If n | o, explain in Rema | irks.) |
| 0 | | or Hydrology or Hydrology | - 0 , | | | | tances" present? ny answers in Rem | |

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

| Hydrophytic Vegetation Present? | Yes 🟒 No | | |
|---|-----------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes No 🟒 | Is the Sampled Area within a Wetland? | Yes No 🟒 |
| Wetland Hydrology Present? | Yes No | lf yes, optional Wetland Site ID: | |
| Remarks: (Explain alternative procedures he | re or in a separate report) | | |
| | | | |
| | | | |
| TRC covertype is UPL. | | | |
| TRC Covertype is OPL. | | | |
| | | | |
| | | | |

| Wetland Hydrology Indicators: | | | | | | |
|--|---------------------|-------------------|---------------------------------------|--|------|--|
| Primary Indicators (minimum of or | <u>ie is requir</u> | ed; check all the | at apply) | Secondary Indicators (minimum of two required) | | |
| 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) | | | | Stunted or Stressed Plants (D1) | | |
| Field Observations: | | | | | | |
| Surface Water Present? | Yes | No 🟒 | Depth (inches): | _ | | |
| Water Table Present? | Yes | No 🟒 | Depth (inches): | Wetland Hydrology Present? Yes | No 🟒 | |
| Saturation Present? | Yes | No 🟒 | Depth (inches): | | | |
| (includes capillary fringe) | | | | | | |
| Describe Recorded Data (stream g | auge, moni | itoring well, aer | ial photos, previous inspections), if | available: | | |
| | | | | | | |

Sampling Point: W-JJB-06; UPL-2

| ree Stratum (Plot size: <u>30 ft</u>) | | Dominant | | Dominance Test worksheet: | | |
|--|----|-------------|--------|--|---------------------------|------------|
| | | Species? | Status | Number of Dominant Species That | 2 | (A) |
| . Thuja occidentalis | 60 | Yes | FACW | Are OBL, FACW, or FAC: | | |
| | | | | 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 I | Bv: |
| · | | | | - OBL species 0 | x 1 = | 0 |
| | 60 | = Total Cov | er | FACW species 60 | x 2 = | 120 |
| apling/Shrub Stratum (Plot size: <u>15 ft</u>) | | | | FAC species 20 | x 3 = | 60 |
| Rhamnus cathartica | 20 | Yes | FAC | - FACU species 0 | x 4 = | 0 |
| | | | | UPL species 0 | x 5 = | 0 |
| | | | | - Column Totals 80 | (A) | 180 (B) |
| | | | | Prevalence Index = B/A = | • • • – | |
| · | | | | Hydrophytic Vegetation Indicators: | | |
| · | | | | - 1- Rapid Test for Hydrophytic | | |
| | | | | 2 - Dominance Test is >50% | regetation | |
| | 20 | = Total Cov | er | \checkmark 3 - Prevalence Index is $\leq 3.0^{11}$ | | |
| erb Stratum (Plot size: <u>5 ft</u>) | | | | 4 - Morphological Adaptation: | s ¹ (Provide s | supporting |
| | | | | - data in Remarks or on a separate s | | apporting |
| | | | | Problematic Hydrophytic Veg | | plain) |
| · | | | | ¹ Indicators of hydric soil and wetlan | | |
| | | | | present, unless disturbed or proble | | |
| | | | | Definitions of Vegetation Strata: | | |
| | | | | Tree – Woody plants 3 in. (7.6 cm) o | or more in d | liameter a |
| | | | | breast height (DBH), regardless of | neight. | |
| | | | | Sapling/shrub – Woody plants less | than 3 in. D | BH and |
| | | | | greater than or equal to 3.28 ft (1 r | | |
| 0 | | | | Herb – All herbaceous (non-woody | | ardless of |
| 1 | | | | size, and woody plants less than 3. | | |
| 2 | | | | Woody vines – All woody vines grea | ater than 3. | 28 ft in |
| | 0 | = Total Cov | er | height. | | |
| <u>Voody Vine Stratum</u> (Plot size: <u>30 ft</u>) | | - | | Hydrophytic Vegetation Present? | Yes 🟒 N | 0 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | - | | |
| | 0 | = Total Cov | er | - | | |

| <u>- 16</u> 5 - 20 | c ators:) don (A2) | % 100 100 100 | Color (moist) | <u>%</u> | | Loc ² | Textur Sandy Clay Sandy Lc | Loam | | Remarks |
|---|--|---|------------------|--------------|------------|------------------|----------------------------------|-------------------|-----------|-------------------------------|
| 5 - 20 | 10YR 4/6 | | n, RM = Reduced | | | | | | | |
| pe: C = Conc dric Soil Indii Histosol (A1 Histic Epipe Black Histic Hydrogen S | entration, D = E cators:) don (A2) | | n, RM = Reduced | | | | | | | |
| fric Soil Indi Histosol (A1 Histic Epipe Black Histic Hydrogen S | c ators:) don (A2) | | n, RM = Reduced | | | | | | | |
| fric Soil Indi Histosol (A1 Histic Epipe Black Histic Hydrogen S | c ators:) don (A2) | | n, RM = Reduced | | | | | | | |
| fric Soil Indi Histosol (A1 Histic Epipe Black Histic Hydrogen S | c ators:) don (A2) | | n, RM = Reduced | | | | | | | |
| fric Soil Indi Histosol (A1 Histic Epipe Black Histic Hydrogen S | c ators:) don (A2) | | n, RM = Reduced | | | | | | | |
| fric Soil Indi Histosol (A1 Histic Epipe Black Histic Hydrogen S | c ators:) don (A2) | | n, RM = Reduced | | | | | | | |
| fric Soil Indi Histosol (A1 Histic Epipe Black Histic Hydrogen S | c ators:) don (A2) | Depletion | n, RM = Reduced | | | | | | | |
| Iric Soil Indi Histosol (A1 Histic Epipe Black Histic Hydrogen S | c ators:) don (A2) | | n, RM = Reduced | | | | | | | |
| lric Soil Indi Histosol (A1 Histic Epipe Black Histic Hydrogen S | c ators:) don (A2) | Depletion | n, RM = Reduced | | | | | | | |
| lric Soil Indi Histosol (A1 Histic Epipe Black Histic Hydrogen S | c ators:) don (A2) | Depletion | n, RM = Reduced | _ | | | | | | |
| lric Soil Indi Histosol (A1 Histic Epipe Black Histic Hydrogen S | c ators:) don (A2) | Depletion | n, RM = Reduced | | | | | | | |
| l ric Soil Indi Histosol (A1 Histic Epipe Black Histic Hydrogen S | c ators:) don (A2) | Depletion | n, RM = Reduced | | | | | | | |
| l ric Soil Indi Histosol (A1 Histic Epipe Black Histic Hydrogen S | c ators:) don (A2) | Depletion | n, RM = Reduced | | | | | | | |
| r ic Soil Indi Histosol (A1 Histic Epipe Black Histic Hydrogen S | c ators:) don (A2) | • | | Mati | rix, MS = | Masked Sand | Grains. ² Locat | tion: PL = Pore l | Lining, M | 1 = Matrix. |
| Histosol (A1 Histic Epipe Black Histic Hydrogen S |) don (A2) | | | | | | | dicators for Pro | | |
| Histic Epipe Black Histic Hydrogen S | don (A2) | | Polyvalue Bel | ow S | urface (S | 8) (LRR R. MI | | | | - |
| Black Histic Hydrogen S | | | Thin Dark Sur | | | | | | | K, L, MLRA 149B) |
| Hydrogen S | (A3) | - | Loamy Mucky | | | | | | | A16) (LRR K, L, R) |
| | | | Loamy Gleyed | | | . , , | | | | eat (S3) (LRR K, L, R) |
| | | | Depleted Mat | | | | | _ Dark Surface | | |
| Depleted Be | low Dark Surfa | | Redox Dark S | | | | | | | ace (S8) (LRR K, L) |
| Thick Dark S | Surface (A12) | | Depleted Dar | k Sui | rface (F7) | | | _ Thin Dark Sur | | |
| Sandy Muck | y Mineral (S1) | | Redox Depre | ssior | ns (F8) | | | - | | ses (F12) (LRR K, L, R |
| Sandy Gley | ed Matrix (S4) | | | | | | | | • | Soils (F19) (MLRA 14 |
| Sandy Redo | x (S5) | | | | | | | | | ILRA 144A, 145, 149E |
| Stripped Ma | | | | | | | | _ Red Parent M | | |
| | e (S7) (LRR R, M | LRA 149 | B) | | | | | _ Very Shallow | | |
| | | | | | | | _ | _ Other (Explain | n in Rem | iarks) |
| licators of h | ydrophytic vege | etation a | ind wetland hydr | ology | y must be | e present, un | ess disturbed o | r problematic. | | |
| trictive Laye | r (if observed): | | | | | | | | | |
| Тур | e: | | None | | | Hydric Soil | Present? | | Yes | No 🟒 |
| Der | oth (inches): | | | | | | | | | |
| arks: | | | | | | | | | | |
| unto. | | | | | | | | | | |
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Soil Photos



Photo of Sample Plot



| Project/Site: Garnet | | City/Cou | unty: Cato, Cayug | a County | | Sampling Date: | 2020-Nov-04 |
|------------------------------------|---------------------|---|-------------------|-------------------|--------------|---------------------------------------|--------------------|
| Applicant/Owner: N | lextEra | | | State: N | ew York | Sampling Point: | W-JJB-06; UPL-3 |
| Investigator(s): Bria | n Stoos, Ryan S | Snow, Jacob brillo | | Section, Townshi | p, Range: | | |
| Landform (hillslope, te | rrace, etc.): | Toe slope | Local re | lief (concave, co | nvex, none): | Undulating | Slope (%): 1-10 |
| Subregion (LRR or MLF | RA): LRR I | 2 | l | at: 43.1460517 | Long: | -76.604847 | Datum: WGS84 |
| Soil Map Unit Name: | Ontario fine OfB | sandy loam, 3 to 8 perce | ent slopes, | | | NWI classific | ation: |
| Are climatic/hydrologi | c conditions or | the site typical for this | time of year? | Yes 🟒 N | lo (If no | o, explain in Rema | rks.) |
| Are Vegetation, Are Vegetation, | | or Hydrology signi or Hydrology natu | • | | | tances" present? ly answers in Rem | Yes 🟒 No arks.) |

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

| Hydrophytic Vegetation Present? | Yes No 🟒 | | | | | | | | |
|--|---|---------------------------------------|----------|--|--|--|--|--|--|
| Hydric Soil Present? | Yes No 🟒 | Is the Sampled Area within a Wetland? | Yes No 🟒 | | | | | | |
| Wetland Hydrology Present? | tland Hydrology Present? Yes _ No If yes, optional Wetland Site ID: | | | | | | | | |
| Remarks: (Explain alternative procedures her | e or in a separate report |) | | | | | | | |
| TRC covertype is UPL. Circumstances are not | normal due to agricultur | al activities | | | | | | | |

| Wetland Hydrology Indicators: | | |
|--|--|--|
| Primary Indicators (minimum of or | ne is required; check all that apply) | Secondary Indicators (minimum of two required) |
| 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 Im- Sparsely Vegetated Concave Su | | 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? Water Table Present? Saturation Present? (includes capillary fringe) | Yes No Depth (inches): Yes No Depth (inches): Yes No Depth (inches): | |
| Describe Recorded Data (stream g | auge, monitoring well, aerial photos, previous inspections), | if available: |

Sampling Point: W-JJB-06; UPL-3

| Absolute | Dominant | Indicator | Dominance Test worksheet: | | |
|----------|--------------------------|-----------|---|---|---|
| % Cover | Species? | Status | Number of Dominant Species That Are OBL, FACW, or FAC: | 0 | (A) |
| | · | | | 3 | (B) |
| | | | Percent of Dominant Species That | 0 | (A/B) |
| | | | | - | |
| | | | | | D. # |
| | | | | | <u>ву:</u> 0 |
| 0 | = Total Cov | er | · · · · · · · · · · · · · · · · · · · | - | 0 |
| | _ | | · · · · · · · · · · · · · · · · · · · | - | |
| | | | · · · · · · · · · · · · · · · · · · · | - | 0 |
| | | | | - | 140 |
| | | | · · · · · · · · · · · · · · · · · · · | x 5 = _ | 0 |
| | | | - Column Totals 35 | (A) | 140 (B) |
| | · | | Prevalence Index = B/A = | 4 | |
| | · | | Hydrophytic Vegetation Indicators: | | |
| | | | | Vegetation | |
| | = Total Cov | er | | | |
| | - | | | | |
| 25 | Yes | FACU | | | supportin |
| | | | | | |
| | | | , , , , , , , , , , , , , , , , , | - | |
| 10 | 163 | INI | , | | gy must b |
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| | <u> </u> | | _ | | |
| | · | | | | diameter a |
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| | | | | | gardless o |
| | | | | | |
| | | | | iter than 3 | .28 ft in |
| 45 | = Total Cov | er | | | |
| | - | | Hydrophytic Vegetation Present? | Yes N | lo _⁄_ |
| | | | | | |
| | | | - | | |
| | | | - | | |
| | | | | | |
| | | | - | | |
| | | | | Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: India & Cover of: O 0 = Total Cover FACW species 0 = Total Cover FAC species 0 = Total Cover FACU species 0 = Total Cover FACU species 0 = Total Cover | Are OBL, FACW, or FAC: 0 Total Number of Dominant Species 3 Are OBL, FACW, or FAC: 0 Percent of Dominant Species That 0 Are OBL, FACW, or FAC: 0 Prevalence Index worksheet: 0 O = Total Cover FACW species 0 x1 = FACW species 0 x3 = FACW species 0 x3 = FACU species 0 x5 = Column Totals 35 x4 = UPL species 0 x5 = Column Totals 35 (A) Prevalence Index is ≤ 3.01 - - 0 = Total Cover - - 0 = Total Cover - - 0 = Total Cover - - 25 Yes FACU - - 10 Yes FACU - |

| 0 - 8 10YR 4/3 98 10YR 5/4 2 C M Silty Clay | Depth | Matrix | | Redox | Feat | ures | | | | |
|--|---|---|------------|-------------------|--------|-------------------|------------------|-----------------------------|--|---|
| 3-20 10YR 4/4 90 10YR 5/8 10 C M Silty Clay Silty Clay | inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | | Remarks |
| pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matrix. dric Soil Indicators: Indicators for Problematic Hydric Soils ² : Histos (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Fipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Redox Dark Surface (F7) Thick Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stratified Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149B) Stratige Matrix (S4) Red Parent Material (F21) Sandy Meday (S5) Shipped Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149B) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Sandy Redox (S5) Other (Explain in Remarks) Stripped Matrix (S4) Other (Explain in Remarks) <tr< td=""><td>0 - 8</td><td>10YR 4/3</td><td>98</td><td>10YR 5/4</td><td>2</td><td>С</td><td>Μ</td><td>Silty Clay</td><td></td><td></td></tr<> | 0 - 8 | 10YR 4/3 | 98 | 10YR 5/4 | 2 | С | Μ | Silty Clay | | |
| dric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) — Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histoc Epipedon (A2) — Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) — Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) — Loamy Gleyed Matrix (F2) Stratified Layers (A5) — Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) — Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) — Redox Depressions (F8) Sandy Redox (S5) — Piedmont Floodplain Soils (F12) (LRR K, L, R) Stripped Matrix (S6) — Polyvalue Below Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) — Red Parent Material (F21) Other (Explain in Remarks) — Very Shallow Dark Surface (TF12) Other (Explain in Remarks) — Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Yes No Type: None Hydric Soil Present? Yes No | 8 - 20 | 10YR 4/4 | 90 | 10YR 5/8 | 10 | C | Μ | Silty Clay | | |
| dric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) — Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histoc Epipedon (A2) — Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) — Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) — Loamy Gleyed Matrix (F2) Stratified Layers (A5) — Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) — Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) — Redox Depressions (F8) Sandy Redox (S5) — Piedmont Floodplain Soils (F12) (LRR K, L, R) Stripped Matrix (S6) — Polyvalue Below Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) — Red Parent Material (F21) Other (Explain in Remarks) — Very Shallow Dark Surface (TF12) Other (Explain in Remarks) — Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Yes No Type: None Hydric Soil Present? Yes No | | | | | | | | | | |
| dric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) — Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histoc Epipedon (A2) — Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) — Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) — Loamy Gleyed Matrix (F2) Stratified Layers (A5) — Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) — Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) — Redox Depressions (F8) Sandy Redox (S5) — Piedmont Floodplain Soils (F12) (LRR K, L, R) Stripped Matrix (S6) — Polyvalue Below Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) — Red Parent Material (F21) Other (Explain in Remarks) — Very Shallow Dark Surface (TF12) Other (Explain in Remarks) — Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Yes No Type: None Hydric Soil Present? Yes No | | | | | · | | <u> </u> | | | |
| dric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) — Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histoc Epipedon (A2) — Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) — Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) — Loamy Gleyed Matrix (F2) Stratified Layers (A5) — Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) — Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) — Redox Depressions (F8) Sandy Redox (S5) — Piedmont Floodplain Soils (F12) (LRR K, L, R) Stripped Matrix (S6) — Polyvalue Below Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) — Red Parent Material (F21) Other (Explain in Remarks) — Very Shallow Dark Surface (TF12) Other (Explain in Remarks) — Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Yes No Type: None Hydric Soil Present? Yes No | | | | | | | <u> </u> | | | |
| dric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) — Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histoc Epipedon (A2) — Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) — Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) — Loamy Gleyed Matrix (F2) Stratified Layers (A5) — Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) — Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) — Redox Depressions (F8) Sandy Redox (S5) — Piedmont Floodplain Soils (F12) (LRR K, L, R) Stripped Matrix (S6) — Polyvalue Below Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) — Red Parent Material (F21) Other (Explain in Remarks) — Very Shallow Dark Surface (TF12) Other (Explain in Remarks) — Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Yes No Type: None Hydric Soil Present? Yes No | | | | | | | | | | |
| dric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) — Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histoc Epipedon (A2) — Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) — Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) — Loamy Gleyed Matrix (F2) Stratified Layers (A5) — Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) — Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) — Redox Depressions (F8) Sandy Redox (S5) — Piedmont Floodplain Soils (F12) (LRR K, L, R) Stripped Matrix (S6) — Polyvalue Below Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) — Red Parent Material (F21) Other (Explain in Remarks) — Very Shallow Dark Surface (TF12) Other (Explain in Remarks) — Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Yes No Type: None Hydric Soil Present? Yes No | | | | | _ | | | | | |
| dric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) — Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histoc Epipedon (A2) — Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) — Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) — Loamy Gleyed Matrix (F2) Stratified Layers (A5) — Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) — Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) — Redox Depressions (F8) Sandy Redox (S5) — Piedmont Floodplain Soils (F12) (LRR K, L, R) Stripped Matrix (S6) — Polyvalue Below Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) — Red Parent Material (F21) Other (Explain in Remarks) — Very Shallow Dark Surface (TF12) Other (Explain in Remarks) — Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Yes No Type: None Hydric Soil Present? Yes No | | | | | | | | | | |
| dric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) — Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histoc Epipedon (A2) — Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) — Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) — Loamy Gleyed Matrix (F2) Stratified Layers (A5) — Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) — Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) — Redox Depressions (F8) Sandy Redox (S5) — Piedmont Floodplain Soils (F12) (LRR K, L, R) Stripped Matrix (S6) — Polyvalue Below Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) — Red Parent Material (F21) Other (Explain in Remarks) — Very Shallow Dark Surface (TF12) Other (Explain in Remarks) — Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Yes No Type: None Hydric Soil Present? Yes No | | | | | | | <u> </u> | | | |
| dric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) — Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histoc Epipedon (A2) — Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) — Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) — Loamy Gleyed Matrix (F2) Stratified Layers (A5) — Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) — Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) — Redox Depressions (F8) Sandy Redox (S5) — Piedmont Floodplain Soils (F12) (LRR K, L, R) Stripped Matrix (S6) — Polyvalue Below Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) — Red Parent Material (F21) Other (Explain in Remarks) — Very Shallow Dark Surface (TF12) Other (Explain in Remarks) — Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Yes No Type: None Hydric Soil Present? Yes No | | | | | | | | | | |
| Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) | /pe: C = (| Concentration, D = | Deplet | ion, RM = Reduce | d Mat | rix, MS = | Masked | Sand Grains. ² L | ocation: PL = Po | re Lining, M = Matrix. |
| Histic Epipedon (A2) | | | | - | | | | | | * |
| Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) S cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) S cm Mucky Peat or Peat (S3) (LRR K, L, R) Stratified Layers (A5) Depleted Matrix (F3) Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Redox Depressions (F8) Nesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Nesic Spodic (TA6) (MLRA 144A, 145, 149B) | - | | | • | | | | | 2 cm Muck | (A10) (LRR K, L, MLRA 149B) |
| Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) S thin Mucky Peat OF Peat (S5) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) | | | | | | | | | Coast Prai | ie Redox (A16) (LRR K, L, R) |
| Stratified Layers (A5) | _ | | | , | - | | (LRR K, L | .) | | - |
| Depleted Below Dark Surface (A11) Redox Dark Surface (F6) | | | | , , | | | | | Dark Surfa | ce (S7) (LRR K, L) |
| Thick Dark Surface (A12) | | - | ace (A1 | | | | | | | |
| Sandy Mucky Mineral (S1) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. | | | | | | |) | | Thin Dark | Surface (S9) (LRR K, L) |
| Sandy Gleyed Matrix (S4) | | | | | | |) | | - | |
| Sandy Redox (S5) Mesic Spodic (1A6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: None Hydric Soil Present? YesNo | | , | | | 000101 | 13 (10) | | | Piedmont | Floodplain Soils (F19) (MLRA 149B) |
| Stripped Matrix (S6) | Sandy G | -leved Matrix (S4) | | | | | | | | |
| Dark Surface (S7) (LRR R, MLRA 149B) | - | • | | | | | | | Mesic Spo | dic (TA6) (MLRA 144A, 145, 149B) |
| dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: None Hydric Soil Present? YesNo | _ Sandy R | Redox (S5) | | | | | | | Red Paren | t Material (F21) |
| Strictive Layer (if observed): Hydric Soil Present? Yes No | _ Sandy R _ Stripped | Redox (S5) d Matrix (S6) | | 408) | | | | | Red Paren Very Shallo | t Material (F21) w Dark Surface (TF12) |
| Type: None Hydric Soil Present? Yes No 🖌 | _ Sandy R _ Stripped | Redox (S5) d Matrix (S6) | ILRA 14 | 49B) | | | | | Red Paren Very Shallo | t Material (F21) w Dark Surface (TF12) |
| | _ Sandy R _ Stripped _ Dark Su dicators | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg | etatior | | Irolog | y must b | e presen | t, unless disturbe | Red Paren Very Shallo Other (Exp | : Material (F21) w Dark Surface (TF12) lain in Remarks) |
| Depth (inches): | _ Sandy R _ Stripped _ Dark Su dicators | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed) : | etatior | n and wetland hyc | Irolog | y must b | | | Red Paren Very Shallo Other (Exp ed or problemati | : Material (F21) w Dark Surface (TF12) lain in Remarks) c. |
| | _ Sandy R _ Stripped _ Dark Su dicators | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyc | Irolog | y must b | | | Red Paren Very Shallo Other (Exp ed or problemati | : Material (F21) w Dark Surface (TF12) lain in Remarks) c. |
| | Sandy R Stripped Dark Su dicators | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyc | Irolog | y must b | | | Red Paren Very Shallo Other (Exp ed or problemati | : Material (F21) w Dark Surface (TF12) lain in Remarks) c. |
| | Sandy R Stripped Dark Su dicators | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyc | Irolog | y must b | | | Red Paren Very Shallo Other (Exp ed or problemati | : Material (F21) w Dark Surface (TF12) lain in Remarks) c. |
| | Sandy R Stripped Dark Su dicators | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyc | Irolog | y must b | | | Red Paren Very Shallo Other (Exp ed or problemati | : Material (F21) w Dark Surface (TF12) lain in Remarks) c. |
| | Sandy R Stripped Dark Su dicators | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyc | Irolog | y must b | | | Red Paren Very Shallo Other (Exp ed or problemati | : Material (F21) w Dark Surface (TF12) lain in Remarks) c. |
| | Sandy R Stripped Dark Su dicators | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyc | Irolog | y must b | | | Red Paren Very Shallo Other (Exp ed or problemati | : Material (F21) w Dark Surface (TF12) lain in Remarks) c. |
| | Sandy R Stripped Dark Su dicators | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyc | Irolog | y must b | | | Red Paren Very Shallo Other (Exp ed or problemati | : Material (F21) w Dark Surface (TF12) lain in Remarks) c. |
| | Sandy R Stripped Dark Su dicators | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyc | Irolog | y must b | | | Red Paren Very Shallo Other (Exp ed or problemati | : Material (F21) w Dark Surface (TF12) lain in Remarks) c. |
| | Sandy R Stripped Dark Su dicators | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyc | Irolog | y must b | | | Red Paren Very Shallo Other (Exp ed or problemati | : Material (F21) w Dark Surface (TF12) lain in Remarks) c. |
| | Sandy R Stripped Dark Su dicators strictive I | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyc | Irolog | y must b | | | Red Paren Very Shallo Other (Exp ed or problemati | : Material (F21) w Dark Surface (TF12) lain in Remarks) c. |
| | _ Sandy R _ Stripped _ Dark Su dicators strictive I | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyc | Irolog | y must b | | | Red Paren Very Shallo Other (Exp ed or problemati | : Material (F21) w Dark Surface (TF12) lain in Remarks) c. |
| | _ Sandy R _ Stripped _ Dark Su ndicators | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyc | Irolog | y must b | | | Red Paren Very Shallo Other (Exp ed or problemati | : Material (F21) w Dark Surface (TF12) lain in Remarks) c. |
| | _ Sandy R _ Stripped _ Dark Su ndicators sstrictive I | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyc | Irolog | y must b | | | Red Paren Very Shallo Other (Exp ed or problemati | : Material (F21) w Dark Surface (TF12) lain in Remarks) c. |
| | _ Sandy R _ Stripped _ Dark Su dicators strictive I | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyc | lrolog | y must b | | | Red Paren Very Shallo Other (Exp ed or problemati | : Material (F21) w Dark Surface (TF12) lain in Remarks) c. |
| | _ Sandy R _ Stripped _ Dark Su dicators strictive I | Redox (S5) d Matrix (S6) Irface (S7) (LRR R, M of hydrophytic veg Layer (if observed): Type: | etatior | n and wetland hyc | Irolog | y must b | | | Red Paren Very Shallo Other (Exp ed or problemati | : Material (F21) w Dark Surface (TF12) lain in Remarks) c. |

Vegetation Photos



Soil Photos

Photo of Sample Plot



| Project/Site: Garnet | | | City/County: | Port Byron, | Сауι | uga County | | Sampling Date: | 2020-Nov-06 |
|---------------------------------|-----------------|------------------------------|-----------------|-------------|-------|---------------|--------------|---------------------------------------|--------------------|
| Applicant/Owner: N | extEra | | | | | State: N | ew York | Sampling Point: | W-JJB-07; PFO-1 |
| Investigator(s): Brian | n Stoos, Ryan S | now, Jacob brillo |) | | Sect | ion, Townshi | p, Range: | | |
| Landform (hillslope, te | rrace, etc.): | Depression | | Local r | elief | (concave, coi | nvex, none): | Concave | Slope (%): 2-5 |
| Subregion (LRR or MLF | RA): LRR F | 8 | | | Lat: | 43.0992672 | Long: | -76.6173173 | Datum: WGS84 |
| Soil Map Unit Name: | Niagara and | canandaigua silt | loams, Nc | | | | | NWI classifie | ation: None |
| Are climatic/hydrologic | conditions or | the site typical | for this time o | of year? | | Yes 🟒 N | lo (If no | o, explain in Rema | rks.) |
| Are Vegetation, Are Vegetation, | | or Hydrology or Hydrology | _ 0 | , | | | | tances" present? ly answers in Rem | Yes 🟒 No arks.) |

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

| Hydrophytic Vegetation Present? | Yes 🟒 No | | |
|---|----------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes 🟒 No | Is the Sampled Area within a Wetland? | Yes 🟒 No |
| Wetland Hydrology Present? | Yes 🟒 No | lf yes, optional Wetland Site ID: | W-JJB-07 |
| Remarks: (Explain alternative procedures he | re or in a separate report |) | |
| | | | |
| | | | |
| TRC covertype is PFO. | | | |
| The covertype is 110. | | | |
| | | | |
| | | | |

| Wetland Hydrology Indicators | : | | | |
|--|---|--|-----------|--|
| Primary Indicators (minimum | of one is required; check all | that apply) | | Secondary Indicators (minimum of two required) |
| 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 Aeria Sparsely Vegetated Concav | Aquai Marl I Hydro Oxidi: Prese Recer Thin I al Imagery (B7) Other | r-Stained Leaves (B9) tic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) zed Rhizospheres on Living Roots ence of Reduced Iron (C4) nt Iron Reduction in Tilled Soils (C Muck Surface (C7) • (Explain in Remarks) | | 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 | Depth (inches): | 6 | Wetland Hydrology Present? Yes No |
| Saturation Present? | Yes 🟒 No | Depth (inches): | 0 | |
| (includes capillary fringe) | | | | |
| Remarks: | am gauge, monitoring well, | aerial photos, previous inspectio | ns), if a | available: |

Sampling Point: W-JJB-07; PFO-1

| | | Dominant Species? | Indicator Status | Dominance Test worksheet: Number of Dominant Species That | 6 | (A) |
|--|----|----------------------|---------------------|---|--------------------------|------------------|
| Fraxinus pennsylvanica | 35 | Yes | FACW | Are OBL, FACW, or FAC: | 0 | (A) |
| Acer rubrum | 20 | Yes | FAC | Total Number of Dominant Species | 8 | (B) |
| Fraxinus americana | 15 | Yes | FACU | Across All Strata: | | |
| | | | | Percent of Dominant Species That | 75 | (A/B |
| | | | | Are OBL, FACW, or FAC: | | |
| | | | | - Prevalence Index worksheet: | N 4 Ini | D: a |
| | | | | - <u>Total % Cover of:</u> - OBL species 10 | <u>Multiply</u> x 1 = | <u>ву:</u> 10 |
| | 70 | = Total Cov | er | FACW species 127 | x 2 = | 254 |
| apling/Shrub Stratum (Plot size: <u>15 ft</u>) | | | | FACW species 127 | x 3 = | 135 |
| . Rhamnus cathartica | 25 | Yes | FAC | - FACU species 45 | x 4 = | |
| . Rosa multiflora | 15 | Yes | FACU | - UPL species 0 | | 120 0 |
| . Fraxinus pennsylvanica | 15 | Yes | FACW | · · · · · · · · · · · · · · · · · · · | x 5 = | |
| | | | | - Column Totals 212 - Prevalence Index = B/A = | (A) 2.4 | 519 (E |
| | | | | | | |
| | | | | Hydrophytic Vegetation Indicators: | | |
| | | | | - 1- Rapid Test for Hydrophytic | Vegetatior | 1 |
| | 55 | = Total Cov | er | 2 - Dominance Test is >50% | | |
| l <u>erb Stratum</u> (Plot size: <u>5 ft</u>) | | | | \checkmark 3 - Prevalence Index is ≤ 3.0 ¹ | | |
| . Phalaris arundinacea | 50 | Yes | FACW | 4 - Morphological Adaptations data in Remarks or on a separate s | | supportir |
| . Solidago gigantea | 20 | Yes | FACW | data in Remarks of on a separate s Problematic Hydrophytic Vege | | (nlain) |
| . Leersia oryzoides | 10 | No | OBL | Indicators of hydric soil and wetlar | | |
| . Onoclea sensibilis | 7 | No | FACW | present, unless disturbed or proble | | gymusti |
| | | | | Definitions of Vegetation Strata: | | |
| | | | | Tree – Woody plants 3 in. (7.6 cm) c | or more in | diameter |
| | | | | breast height (DBH), regardless of h | | alarrieter |
| | | | | Sapling/shrub – Woody plants less | - | OBH and |
| | | | | greater than or equal to 3.28 ft (1 n | n) tall. | |
| 0. | | | | Herb – All herbaceous (non-woody) |) plants, re | gardless o |
| 1. | | | | size, and woody plants less than 3. | | |
| 2. | | | | Woody vines – All woody vines grea | ater than 3 | .28 ft in |
| | | = Total Cov | er | height. | | |
| <u>Voody Vine Stratum</u> (Plot size: <u>30 ft</u>) | | | | Hydrophytic Vegetation Present? | Yes 🟒 N | lo |
| · | | | | | | |
| | | | | - | | |
| | | | | - | | |
| · | | | | - | | |
| | 0 | = Total Cov | er | - | | |
| | 0 | 10101 000 | CI | | | |

| | • | to the | • | | | indicato | r or confirm the al | bsence of indicators.) |
|--------------------------|------------------------------|----------|-------------------|--|-------------------|------------------|------------------------------|--|
| Depth | Matrix | | Redox | | | 12 | T | Demender |
| (inches) | Color (moist) | <u>%</u> | Color (moist) | <u>%</u> | Type ¹ | Loc ² | Texture | |
| 0 - 6 | 10YR 2/2 | 90 | 10YR 5/4 | 10 | <u> </u> | <u>M</u> | Clay Loar | m |
| 6 - 18 | 10YR 3/4 | 80 | 10YR 6/8 | 20 | C | M | Clay | |
| | | | | · | | | | |
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| | | | | | | | | |
| ¹ Type: C = 0 | Concentration, D = | Deplet | ion, RM = Reduce | d Mat | rix, MS = | Masked | Sand Grains. ² Lo | ocation: PL = Pore Lining, M = Matrix. |
| Hydric Soil | | | | | _ | | | Indicators for Problematic Hydric Soils ³ : |
| Histoso | l (A1) | | Polyvalue Be | elow S | Surface (S | 58) (LRR | R, MLRA 149B) | 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| Histic E | pipedon (A2) | | Thin Dark Si | urface | (S9) (LR | r R, MLR | A 149B) | Coast Prairie Redox (A16) (LRR K, L, R) |
| Black H | istic (A3) | | Loamy Mucl | <y mir<="" td=""><td>neral (F1)</td><td>(LRR K, I</td><td>_)</td><td> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)</td></y> | neral (F1) | (LRR K, I | _) | 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| | en Sulfide (A4) | | Loamy Gley | | | | | Dark Surface (S7) (LRR K, L) |
| | d Layers (A5) | | Depleted M | | | | | Polyvalue Below Surface (S8) (LRR K, L) |
| | d Below Dark Surfa | ace (A1 | | | | | | Thin Dark Surface (S9) (LRR K, L) |
| | ark Surface (A12) | | Depleted Da | | |) | | Iron-Manganese Masses (F12) (LRR K, L, R) |
| , | Aucky Mineral (S1) | | Redox Depr | essioi | ıs (F8) | | | Piedmont Floodplain Soils (F19) (MLRA 149B) |
| - | Gleyed Matrix (S4) | | | | | | | Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| - | Redox (S5) | | | | | | | Red Parent Material (F21) |
| | d Matrix (S6) | | | | | | | Very Shallow Dark Surface (TF12) |
| Dark Su | ırface (S7) (LRR R, N | ILRA 1 | 49B) | | | | | Other (Explain in Remarks) |
| ³ Indicators | of hydrophytic veg | etatior | n and wetland hyd | Irolog | y must b | e preser | ıt, unless disturbe | ed or problematic. |
| Restrictive | Layer (if observed): | | | | | | | |
| | Туре: | | None | | | Hydric | Soil Present? | Yes 🟒 No |
| | Depth (inches): | | | • | | | | |
| Remarks: | | | | | | | | |
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Hydrology Photos



Vegetation Photos

Soil Photos



Photo of Sample Plot

| Project/Site: Garnet | City/County: | Port Byron, Cay | uga County | Sampling Date: 2020-Nov-06 | | | | |
|---|----------------|--|--------------|---------------------------------|--------|---|------------------|--|
| Applicant/Owner: Nex | | State: New Yo | ork | Sampling Point: W-JJB-07; UPL-1 | | | | |
| Investigator(s): Brian S | Stoos, Ryan Sr | iow, Jacob brillo | Sec | Section, Township, Range: | | | | |
| Landform (hillslope, terra | ace, etc.): | Agricultural Field | Local relief | (concave, convex, | none): | Undulating | Slope (%): 5-10 | |
| Subregion (LRR or MLRA) | LRR R | | Lat: | 43.099101 | Long: | -76.6174277 | Datum: WGS84 | |
| Soil Map Unit Name: | Ontario loam, | 3 to 8 percent slopes. OnC | | | | NWI classificati | on: None | |
| Are climatic/hydrologic conditions on the site typical for this time of year? Yes 🧹 No (If no, explain in Remarks.) | | | | | | | | |
| e | | r Hydrology significant r Hydrology naturally | 5 | | | tances" present? y answers in Remark | Yes 🟒 No :s.) | |

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

| Hydrophytic Vegetation Present? | Yes No 🟒 | | | | | | | |
|---|----------|---------------------------------------|----------|--|--|--|--|--|
| Hydric Soil Present? | Yes 🟒 No | Is the Sampled Area within a Wetland? | Yes No 🟒 | | | | | |
| Wetland Hydrology Present? | Yes No _ | lf yes, optional Wetland Site ID: | | | | | | |
| Remarks: (Explain alternative procedures here or in a separate report) | | | | | | | | |
| | | | | | | | | |
| TRC covertype is UPL. Circumstances are not normal due to agricultural activities | | | | | | | | |
| 51 | Ū | | | | | | | |
| | | | | | | | | |

| Wetland Hydrology Indicators: | | | | | | | |
|---|--------------|---|---|-----------|--|--|--|
| Primary Indicators (minimum of or | ne is requii | Secondary Indicators (minimum of two required) | | | | | |
| 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 Image Sparsely Vegetated Concave Surface | | Aquati Marl D Hydrog Oxidizu Preser Recent Thin M | Stained Leaves (B9) c Fauna (B13) reposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living Roo ice of Reduced Iron (C4) t Iron Reduction in Tilled Soils (luck Surface (C7) (Explain in Remarks) | | 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 🟒 | Depth (inches): | | Wetland Hydrology Present? Yes No _ | | |
| Saturation Present? | Yes | No 🟒 | Depth (inches): | | - | | |
| (includes capillary fringe) | | | — | | - | | |
| Describe Recorded Data (stream g | auge, mon | itoring well, a | erial photos, previous inspecti | ions), if | available: | | |
| | | | | | | | |

Sampling Point: <u>W-JJB-07; UPL-1</u>

| | | Indicator Status | | | (A) |
|----|-------------|--------------------------|--|---|--|
| | | | | | |
| | | | Total Number of Dominant Species Across All Strata: | 5 2 | (B) |
| | | | Percent of Dominant Species That Are OBL, FACW, or FAC: | 0 | (A/B) |
| | | | Prevalence Index worksheet: | | |
| | | | - <u>Total % Cover of:</u> | Multiply | By: |
| | | | - OBL species 0 | x 1 = | 0 |
| 0 | = Total Cov | er | FACW species 0 | x 2 = | 0 |
| | | | FAC species 0 | x 3 = | 0 |
| | | | FACU species 40 | x 4 = | 160 |
| | | | · · · · · · · · · · · · · · · · · · · | | 0 |
| | | | · · · · · · · · · · · · · · · · · · · | | 160 (B) |
| | | | | | 100 (D) |
| | | | | | |
| | | | | | |
| | | | | Vegetation | ר |
| 0 | = Total Cov | er | | | |
| | - | | | | |
| 25 | Yes | FACU | | | supportin |
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| | | | | | ogy must be |
| | | | | ematic | |
| | | | • | | |
| | | | | | diameter a |
| | | | | - | DDU and |
| | | | | | DBH and |
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| | | | | | gardiess of |
| | | | | | 20 ft in |
| | | | | | .201111 |
| 40 | = Total Cov | er | | | |
| | | | Hydrophytic Vegetation Present? | Yes I | No 🟒 |
| | | | | | |
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| | | | - | | |
| | | | | | |
| | % Cover | % Cover Species? | | % Cover Species? Status % Cover Species? Status Mumber of Dominant Species Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species O Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: O O = Total Cover ACU species O FACU species O Column Totals 40 Prevalence Index = B/A = Hydrophytic Vegetation Indicators: O = Total Cover 25 Yes 15 Yes 15 Yes 26 Yes 27 Yes 28 Prevalence Index is ≤ 3.0° 29 Problematic Hydrophytic Vegetation Indicators: 29 | % Cover Species? Status % Cover Species? Status Are OBL, FACW, or FAC: 0 Total Number of Dominant Species That 0 Across All Strata: 2 Percent of Dominant Species That 0 Are OBL, FACW, or FAC: 0 Prevalence Index worksheet: 0 Total % Cover of: Multiply O = Total Cover FACU species 0 FACU species 0 Column Totals 40 WPrevalence Index = B/A = 4 Wydrophytic Vegetation Indicators: 1 15 Yes FACU Prevalence Index is ≤ 3.0' 25 Yes FACU Problematic Hydrophytic Vegetation '(E) 15 Yes FACU Problematic Hydrophytic Vegetation '(E) 'Indicators of hydric soil and wetland hydrold Problematic Hydrophytic Vegetation '(E) 'Indicators of hydric soil and wetland hydrold Problematic Hydrophytic Vegetation '(E) 'Indicators of hydric soil and wetland hydrold Problematic Hydrophytic Vegetation '(E) |

| Depth (inches) | Matrix | | Redox | Feat | ures | | absence of indicators.) |
|-------------------------|----------------------------------|----------|----------------------------|-----------|-------------------|----------------------------------|---|
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² Texture | Remarks |
| 0 - 8 | 10YR 3/1 | 98 | 10YR 4/6 | 2 | C | M Silt Loan | <u>ו</u> |
| 8 - 16 | 10YR 3/3 | 100 | | | | Silt Loan | 1 |
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| | | | | | | | |
| Type: C = C | Concentration, D = | Depletic | n, RM = Reduced | Mat | rix, MS = | Masked Sand Grains. ² | Location: PL = Pore Lining, M = Matrix. |
| Hydric Soil I | Indicators: | | | | | | Indicators for Problematic Hydric Soils ³ : |
| Histosol | | | | | | 8) (LRR R, MLRA 149B) | 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| | oipedon (A2) | | Thin Dark Su | | | | Coast Prairie Redox (A16) (LRR K, L, R) |
| Black Hi | | | Loamy Mucky | | | (LRR K, L) | 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| | en Sulfide (A4) d Layers (A5) | | Loamy Gleye Depleted Ma | | | | Dark Surface (S7) (LRR K, L) |
| | d Below Dark Surfa | | - | | | | Polyvalue Below Surface (S8) (LRR K, L) |
| | ark Surface (A12) | | Depleted Dar | | | | Thin Dark Surface (S9) (LRR K, L) |
| | lucky Mineral (S1) | | Redox Depre | | | | Iron-Manganese Masses (F12) (LRR K, L, R) |
| Sandy G | Gleyed Matrix (S4) | | | | | | Piedmont Floodplain Soils (F19) (MLRA 149B) |
| Sandy R | edox (S5) | | | | | | Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) |
| Strippec | d Matrix (S6) | | | | | | Very Shallow Dark Surface (TF12) |
| Dark Su | rface (S7) (LRR R, M | 1LRA 149 | 9B) | | | | Other (Explain in Remarks) |
| ³ Indicators | of hydrophytic yeg | etation | and wetland hvdr | olog | v must be | e present, unless disturb | |
| | Layer (if observed): | | j_ | 0. | , | | |
| | | | None | | | Hydric Soil Present? | Yes 🟒 No |
| | Type: | | | - | | , | |
| | Type: Depth (inches): | | | | | | |
| | Type: Depth (inches): | | | | | | |
| | | | | . <u></u> | | 1 | |
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Vegetation Photos



Soil Photos



| Project/Site: Garnet | City/County: Port Byron, | Cayuga | Sampling Date: 20 | 20-Nov-06 | | | | |
|---|--|-------------------------------|--|----------------|--|--|--|--|
| Applicant/Owner: NextEra | | State: NY | Sampling Point: W-JJE | 3-08; PEM-1 | | | | |
| Investigator(s): Jake Brillo, Ryan Snov | v, Jacob brillo | Section, Township, Range: | | | | | | |
| Landform (hillslope, terrace, etc.): | Marsh Local r | elief (concave, convex, none) | : Flat | Slope (%): 0-1 | | | | |
| Subregion (LRR or MLRA): | | Lat: 43.1044224306 Long | -76.6213835318 | Datum: WGS84 | | | | |
| Soil Map Unit Name: Hilton loam, 3 t | to 8 percent slopes, HiB | | NWI classificatio | n: PFO | | | | |
| Are climatic/hydrologic conditions on the site typical for this time of year? Yes 🖌 No (If no, explain in Remarks.) | | | | | | | | |
| • <u> </u> | Hydrology significantly disturbed Hydrology naturally problematic | | stances" present? ny answers in Remarks | Yes 🟒 No .) | | | | |

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

| Hydrophytic Vegetation Present? | Yes 🟒 No | | | | | | | | |
|---|--|---------------------------------------|----------|--|--|--|--|--|--|
| Hydric Soil Present? | Yes 🟒 No | Is the Sampled Area within a Wetland? | Yes 🟒 No | | | | | | |
| Wetland Hydrology Present? | Yes 🟒 No | If yes, optional Wetland Site ID: | W-JJB-08 | | | | | | |
| Remarks: (Explain alternative procedures he | Remarks: (Explain alternative procedures here or in a separate report) | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| TRC covertype is PEM. | | | | | | | | | |
| The covertype is PLIN. | | | | | | | | | |
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| Wetland Hydrology Indicators: | | | |
|--|--------------------------------|--|--|
| Primary Indicators (minimum o | f one is required; check all i | <u>that apply)</u> | Secondary Indicators (minimum of two required) |
| 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 Sparsely Vegetated Concave | 0, | 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 🟒 | Depth (inches): | Wetland Hydrology Present? Yes No |
| Saturation Present? | Yes 🟒 No | Depth (inches): 0 | |
| (includes capillary fringe) | | | |
| Describe Recorded Data (strear Remarks: | n gauge, monitoring well, a | erial photos, previous inspections), if | available: |

Sampling Point: W-JJB-08; PEM-1

| <u>Tree Stratum</u> (Plot size: <u>30 ft</u>) | | Dominant | Indicator | Dominance Test worksheet: | | |
|--|---------|-------------|-----------|--|------------|-----------|
| | % Cover | Species? | Status | Number of Dominant Species That Are OBL, FACW, or FAC: | 3 | (A) |
| · | | · · | | - Total Number of Dominant Species | 5 3 | (B) |
| · | | | | Percent of Dominant Species That | 100 | (A/B) |
| · · · · · · · · · · · · · · · · · · · | | | | - Are OBL, FACW, or FAC: | | (74 D) |
| | | | | Prevalence Index worksheet: | | |
| | | · · | | - <u>Total % Cover of:</u> | Multiply E | • |
| | | = Total Cov | er | - OBL species 0 | x 1 = | 0 |
| apling/Shrub Stratum (Plot size: <u>15 ft</u>) | | - | | FACW species 80 | x 2 = | 160 |
| | | | | FAC species 60 | x 3 = | 180 |
| | | | | FACU species 0 | x 4 = | 0 |
| | | <u> </u> | | - UPL species 0 | x 5 = | 0 |
| · | | | | - Column Totals 140 | (A) | 340 (B) |
| · | | <u> </u> | | Prevalence Index = B/A = | 2.4 | |
| | | · | | - Hydrophytic Vegetation Indicators | | |
| · | | | | 1- Rapid Test for Hydrophytic | Vegetation | |
| · | 0 | = Total Cov | er | ∠_ 2 - Dominance Test is >50% | | |
| l <u>erb Stratum</u> (Plot size: <u>5 ft</u>) | | - | | \checkmark 3 - Prevalence Index is ≤ 3.0 ¹ | | |
| . Phalaris arundinacea | 60 | Yes | FACW | 4 - Morphological Adaptation | | upportin |
| . Urtica dioica | 30 | Yes | FAC | - data in Remarks or on a separate s | | |
| . Euthamia graminifolia | 30 | Yes | FAC | Problematic Hydrophytic Veg | | - |
| . Bidens frondosa | 20 | No | FACW | Indicators of hydric soil and wetla | , 0 | y must b |
| | 20 | | T/ICW | present, unless disturbed or probl | ematic | |
| · | | · | | Definitions of Vegetation Strata: | | |
| 7. | | <u> </u> | | Tree – Woody plants 3 in. (7.6 cm) breast height (DBH), regardless of | | lameter a |
| | | | | Sapling/shrub – Woody plants less | - | PU and |
|). | | · | | greater than or equal to 3.28 ft (1 r | | Diranu |
| | | · | | Herb – All herbaceous (non-woody | | ardless o |
| 0 | | <u> </u> | | size, and woody plants less than 3. | | |
| 1 | | | | Woody vines – All woody vines gre | | 28 ft in |
| 2 | | | | - height. | | |
| | 140 | = Total Cov | er | Hydrophytic Vegetation Present? | Yes 🖌 No | n |
| <u>Noody Vine Stratum</u> (Plot size: <u>30 ft</u>) | | | | | | |
| | | · | | - | | |
| | | · | | - | | |
| | | · | | - | | |
| 1 | | | | - | | |
| | 0 | = Total Cov | er | | | |

| | Depth | cription: (Describe Matrix | | Redox | | | | | . sascine of | |
|---|-------------|-------------------------------|---------|-------------------|------------|-----------|------------------|-------------------|--------------|--|
| 0 - 6 10YR 3/2 98 7.5YR 4/6 2 C M Clay Loam 6 - 20 7.5YR 3/1 75 7.5YR 4/6 25 C M Clay Loam 6 - 20 7.5YR 3/1 75 7.5YR 4/6 25 C M Clay Loam 6 - 20 7.5YR 3/1 75 7.5YR 4/6 25 C M Clay Loam 6 - 20 7.5YR 3/1 75 7.5YR 4/6 25 C M Clay Loam 6 - 20 7.5YR 3/1 75 7.5YR 4/6 25 C M Clay Loam 6 - 20 7.5YR 3/1 7.5YR 4/6 2 C M Clay Loam 6 - 20 7.5YR 4/6 2 C M Clay Loam C 6 - 20 7.5YR 4/6 2 C M Clay Loam C 9 10< | (inches) | | % | | | | Loc ² | Textu | re | Remarks |
| 6 - 20 7.5YR 3/1 75 7.5YR 4/6 25 C M Clay Loam 6 - 20 7.5YR 3/1 75 7.5YR 4/6 25 C M Clay Loam 6 - 20 7.5YR 3/1 75 7.5YR 4/6 25 C M Clay Loam 6 - 20 7.5YR 3/1 75 7.5YR 4/6 25 C M Clay Loam 9 9 10 | 0 - 6 | 10YR 3/2 | 98 | 7.5YR 4/6 | 2 | C | М | Clay Lo | am | |
| rdric Soil Indicators: Indicators for Problematic Hydric Soils ³ : _ Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) _ Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) _ Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Startfied Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) //Redox Dark Surface (F6) | 6 - 20 | | 75 | 7.5YR 4/6 | 25 | С | М | Clay Lo | am | |
| rdric Soil Indicators: Indicators for Problematic Hydric Soils ³ : _ Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) _ Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) //Redox Dark Surface (F6) | | | | | | | | | | |
| dric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 1449B) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Matrix (S6) Wery Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Micrators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): None Type: None Depth (inches): Hydric Soil Present? | | | | | | | | | | |
| dric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 1449B) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Matrix (S6) Wery Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Micrators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): None Type: None Depth (inches): Hydric Soil Present? | | | | | · | | | | | |
| dric Soil Indicators: Indicators for Problematic Hydric Soils ³ : _ Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) _ Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) | | | | | · | | | | | |
| dric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 1449B) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Matrix (S6) Wery Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Micrators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): None Type: None Depth (inches): Hydric Soil Present? | | | | | · — | | | | | |
| dric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 1449B) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Matrix (S6) Wery Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Micrators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): None Type: None Depth (inches): Hydric Soil Present? | | | | | · | | | | | |
| rdric Soil Indicators: Indicators for Problematic Hydric Soils ³ : _ Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) _ Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) //Redox Dark Surface (F6) | | | | | | | | | | |
| rdric Soil Indicators: Indicators for Problematic Hydric Soils ³ : _ Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) _ Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) //Redox Dark Surface (F6) | | | | | | | | | | |
| dric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 1449B) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Matrix (S6) Wery Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Micrators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): None Type: None Depth (inches): Hydric Soil Present? | | | | | · <u> </u> | | | | | |
| Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Dolyvalue Below Surface (S8) (LRR K, L) Dark Surface (S7) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Nesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Ntrace (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Ntrace (TF12) Ntrace (TF12) Dark Surface (S7) (LRR R, MLRA 149B) | | | Deplet | ion, RM = Reduce | d Mat | rix, MS = | Masked | d Sand Grains. | | * |
| Histic Epipedon (A2) | | | | Polyzalue B | | urface (S | 58) /I DD | | | - |
| Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Coast Hunte Redox (A10) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) S cm Mucky Peat or Peat (S3) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Depleted Dark Surface (F7) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Redox (S5) Depleted Matrix (S6) Nesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) | - | | | • | | | | | | |
| Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Strintified Layers (A5) Depleted Matrix (F2) Dark Surface (S7) (LRR K, L) | | | | | | | | | | |
| _ Stratified Layers (A5) | - | . , | | | | | (, | _, | | |
| | | | | | | | | | | |
| _ Thick Dark Surface (A12) _ Depleted Dark Surface (F7) _ Inin Dark Surface (S9) (LRR K, L) _ Sandy Mucky Mineral (S1) _ Redox Depressions (F8) _ Iron-Manganese Masses (F12) (LRR K, L, R) _ Sandy Gleyed Matrix (S4) _ Piedmont Floodplain Soils (F19) (MLRA 149B) _ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) _ Sandy Redox (S5) _ Mesic Spodic (TA6) (MLRA 144B) _ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) _ Stripped Matrix (S6) _ Wery Shallow Dark Surface (TF12) _ Dark Surface (S7) (LRR R, MLRA 149B) _ Other (Explain in Remarks) _ dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. _ Other (Explain in Remarks) _ Type: None _ Hydric Soil Present? Yes _ No _ Depth (inches): _ None _ Hydric Soil Present? Yes _ No | | | ace (A1 | | | | | | - | |
| _ Sandy Mucky Mineral (S1) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR R, L, R) _ Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149B) _ Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) _ Stripped Matrix (S6) Red Parent Material (F21) _ Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Yes No Type: None Hydric Soil Present? Yes No | | | | | | |) | | | |
| _ Sandy Gleyed Matrix (S4) _ Sandy Redox (S5) _ Stripped Matrix (S6) _ Dark Surface (S7) (LRR R, MLRA 149B) _ Cark Surface (S7) (LRR R, MLRA 149B) _ Dark Surface (S7) (LRR R, MLRA 149B) _ Cark Surfac | | | | | | | , | | | 3 |
| _ Sandy Redox (S5) _ Stripped Matrix (S6) _ Dark Surface (S7) (LRR R, MLRA 149B) _ Dark Surface (S7) (LRR R, MLRA 149B) _ Derk further definition and wetland hydrology must be present, unless disturbed or problematic. _ Strictive Layer (if observed): _ Type:NoneHydric Soil Present? YesNo | | • | | | 000101 | 15 (10) | | | Piedr | mont Floodplain Soils (F19) (MLRA 149B) |
| | - | - | | | | | | | Mesi | c Spodic (TA6) (MLRA 144A, 145, 149B) |
| _ Dark Surface (S7) (LRR R, MLRA 149B) | - | | | | | | | | Red I | Parent Material (F21) |
| Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: None Depth (inches): | | | | | | | | | Very | Shallow Dark Surface (TF12) |
| Instrictive Layer (if observed): Type: None Hydric Soil Present? Yes _ ✓ No Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): | _ Dark Su | rface (S7) (LRR R, N | ILRA 1 | 49B) | | | | | Othe | er (Explain in Remarks) |
| Type: None Hydric Soil Present? Yes _ / No Depth (inches): | | | | n and wetland hyd | Irolog | y must b | e prese | nt, unless distur | bed or probl | ematic. |
| Depth (inches): | strictive l | - | | | | | | | | |
| | | | | None | | | Hydrid | : Soil Present? | | Yes 🟒 No |
| emarks: | | Depth (inches): | | | | | | | | |
| | marks: | | | | | | | | | |
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Soil Photos



| Project/Site: Garnet | City/County: Port Byron, Cayuga | Sampling Date: 2020-Nov-06 | | | | | | |
|---|---|--|--|--|--|--|--|--|
| Applicant/Owner: NextEra | State: NY | Sampling Point: W-JJB-08; PFO-1 | | | | | | |
| Investigator(s):Jake Brillo, Ryan Snow, Jacob brillo | Section, Township, Range: | | | | | | | |
| Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): | Concave Slope (%): 0-1 | | | | | | |
| Subregion (LRR or MLRA): LRR R | Lat: 43.1043453236 Long: | -76.620640882 Datum: WGS84 | | | | | | |
| Soil Map Unit Name: Ontario loam, 3 to 8 percen | t slopes, OnC | NWI classification: PFO | | | | | | |
| Are climatic/hydrologic conditions on the site typical for this time of year? Yes 🖌 No (If no, explain in Remarks.) | | | | | | | | |
| | significantly disturbed? Are "Normal Circums naturally problematic? (If needed, explain an | tances" present? Yes _✔ No y answers in Remarks.) | | | | | | |

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

| Hydrophytic Vegetation Present? | Yes 🟒 No | | | | | | | | | |
|--|--|---------------------------------------|----------|--|--|--|--|--|--|--|
| Hydric Soil Present? | Yes 🟒 No | Is the Sampled Area within a Wetland? | Yes 🧹 No | | | | | | | |
| Wetland Hydrology Present? | Yes 🟒 No | If yes, optional Wetland Site ID: | W-JJB-08 | | | | | | | |
| Remarks: (Explain alternative procedures h | Remarks: (Explain alternative procedures here or in a separate report) | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TPC coverture is PEO | | | | | | | | | | |
| TRC covertype is PFO. | | | | | | | | | | |
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| Wetland Hydrology Indicators: | | | |
|--|---------------------------------|--|--|
| Primary Indicators (minimum | of one is required; check all t | <u>that apply)</u> | Secondary Indicators (minimum of two required) |
| 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 Aeria Sparsely Vegetated Concav | 0,, | 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 🟒 | Depth (inches): | Wetland Hydrology Present? Yes No |
| Saturation Present? | Yes 🟒 No | Depth (inches): 1 | |
| (includes capillary fringe) | | | |
| Describe Recorded Data (strea | ım gauge, monitoring well, a | erial photos, previous inspections), if | available: |

Sampling Point: W-JJB-08; PFO-1

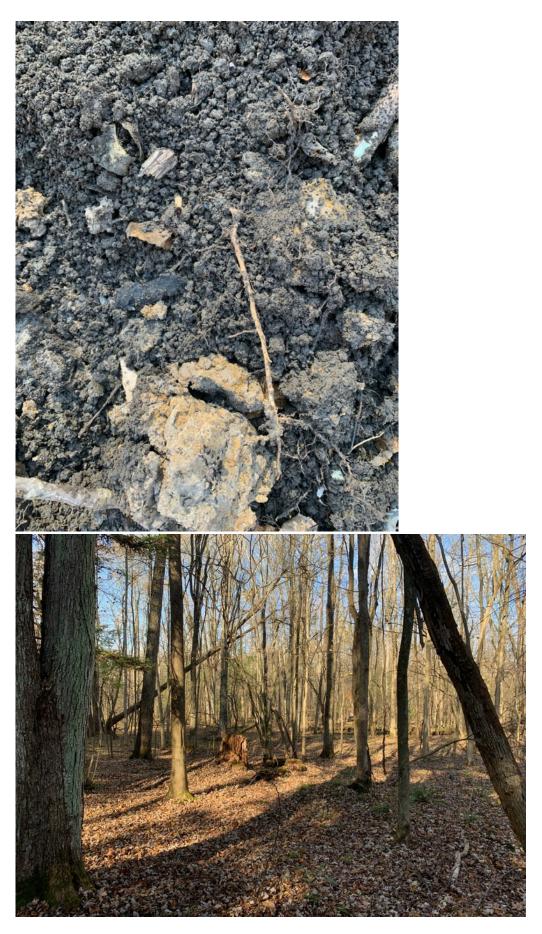
| Tree Stratum (Plot size: <u>30 ft</u>) | Absolute Dominant Indicator % Cover Species? Status | | | Dominance Test worksheet: Number of Dominant Species That | | |
|--|--|-------------|------|---|-------------------------|-------------|
| . Acer rubrum | 30 | Yes | FAC | Are OBL, FACW, or FAC: | 4 | (A) |
| 2. Fraxinus pennsylvanica | 20 | Yes | FACW | Total Number of Dominant Species | 5 | (5) |
| 3. Ulmus americana | 10 | No | FACW | Across All Strata: | | (B) |
| l. | | | TACW | Percent of Dominant Species That | 80 | (A/B) |
| ·· | | | | Are OBL, FACW, or FAC: | | (AD) |
| · · · · · · · · · · · · · · · · · · · | | | | Prevalence Index worksheet: | | |
| | | | | Total % Cover of: | <u>Multiply</u> | <u>By:</u> |
| · | 60 | = Total Cov | er | OBL species 0 | x 1 = | 0 |
| apling/Shrub Stratum (Plot size: <u>15 ft</u>) | | - | | FACW species 40 | x 2 = | 80 |
| . Carpinus caroliniana | 20 | Yes | FAC | FAC species 50 | x 3 = | 150 |
| | 20 | 105 | inc | FACU species 15 | x 4 = | 60 |
| | | | | UPL species 0 | x 5 = | 0 |
| · | | | | Column Totals 105 | (A) | 290 (B) |
| · | | | | Prevalence Index = B/A = | 2.8 | |
| · | | | | Hydrophytic Vegetation Indicators: | | |
| | | | | 1- Rapid Test for Hydrophytic | /egetation | |
| | | - Tatal Cau | | 2 - Dominance Test is >50% | | |
| | 20 | = Total Cov | er | \checkmark 3 - Prevalence Index is ≤ 3.0 ¹ | | |
| erb Stratum (Plot size: <u>5 ft</u>) | 15 | Vee | FACU | 4 - Morphological Adaptations | ¹ (Provide | supporting |
| . Polystichum acrostichoides | | Yes | FACU | - data in Remarks or on a separate sl | neet) | |
| . Carex bromoides | 10 | Yes | FACW | Problematic Hydrophytic Vege | tation ¹ (Ex | plain) |
| | | | | ¹ Indicators of hydric soil and wetlan | d hydrolog | gy must be |
| | | | | present, unless disturbed or proble | matic | |
| | | | | Definitions of Vegetation Strata: | | |
| | | | | Tree – Woody plants 3 in. (7.6 cm) o | | diameter a |
| · | | | | breast height (DBH), regardless of h | - | |
| 3 | | | | Sapling/shrub – Woody plants less t | | OBH and |
|) | | | | greater than or equal to 3.28 ft (1 m | | |
| 0 | | | | Herb – All herbaceous (non-woody) | | gardless of |
| 1 | | | | size, and woody plants less than 3.2 | | 20 6 |
| 2 | | | | Woody vines – All woody vines grea height. | ter than 3. | 28 IL IN |
| | 25 | = Total Cov | er | | | |
| <u>Noody Vine Stratum</u> (Plot size: <u>30 ft</u>) | | | | Hydrophytic Vegetation Present? | Yes 🟒 N | lo |
| | | | | _ | | |
| | | | | _ | | |
| 3 | | | | _ | | |
| l | | | | _ | | |
| | 0 | = Total Cov | er | | | |

| | cription: (Describe Matrix | to the d | Redo: Redo: | | | indicator | or confirm the a | bsence of indicators.) |
|-------------------|--|----------|---------------------------|----------|-------------------|------------------|-------------------------|--|
| Depth (inches) | Color (moist) | % | Color (moist) | <u>%</u> | Type ¹ | Loc ² | Texture | Remarks |
| 0 - 7 | 10YR 3/2 | 100 | | | Турс | | Loam | |
| 7 - 20 | 10YR 5/2 | 75 | 7.5YR 6/8 | 25 | С | M | Clay | |
| 7 20 | 1011(3)2 | | 7.511(0,0 | | | | city | |
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| [vpe: C = (| Concentration, D = | Depleti | on. RM = Reduce | d Mat | rix. MS = | Masked 9 | and Grains ² | ocation: PL = Pore Lining, M = Matrix. |
| | Indicators: | pietr | , | | , | | | Indicators for Problematic Hydric Soils ³ : |
| Histoso | | | Polyvalue Be | elow S | Surface (S | 58) (LRR R. | MLRA 149B) | 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| | pipedon (A2) | | Thin Dark Su | | | | | Coast Prairie Redox (A16) (LRR K, L, MLRA 1496) |
| Black H | istic (A3) | | Loamy Mucł | xy Mir | neral (F1) | | | 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| | en Sulfide (A4) | | Loamy Gleye | | | | | Dark Surface (S7) (LRR K, L) |
| | d Layers (A5) | | Depleted Ma | | | | | Polyvalue Below Surface (S8) (LRR K, L) |
| | d Below Dark Surf | ace (A11 | | | | , | | Thin Dark Surface (S9) (LRR K, L) |
| | ark Surface (A12) /lucky Mineral (S1) | | Depleted Da Redox Depr | | |) | | Iron-Manganese Masses (F12) (LRR K, L, R) |
| | Gleyed Matrix (S4) | | | 233101 | 13 (10) | | | Piedmont Floodplain Soils (F19) (MLRA 149B) |
| - | Redox (S5) | | | | | | | Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| - | d Matrix (S6) | | | | | | | Red Parent Material (F21) |
| | rface (S7) (LRR R, I | MLRA 14 | 9B) | | | | | Very Shallow Dark Surface (TF12) |
| | | | | rolog | v must h | o nrosont | unless disturbe | Other (Explain in Remarks) ed or problematic. |
| | Layer (if observed) | - | and wettand hye | 10105 | ymaseb | | | |
| | Type: | • | None | | | Hydric S | oil Present? | Yes 🟒 No |
| | Depth (inches): | | Hone | - | | i iyane s | on resent. | |
| emarks: | Deptil (illelies). | _ | | | | | | |
| ernarks. | | | | | | | | |
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Soil Photos



Photo of Sample Plot



| Project/Site: garnet | City/County: Conquest, Cayuga County | Sampling Date: 2020-Nov-06 | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|
| Applicant/Owner: NextEra | State: New York | Sampling Point: W-JJB-08; UPL-1 | | | | | | | |
| Investigator(s):Jake Brillo, Ryan Snow, Jacob brillo | Section, Township, Range: | | | | | | | | |
| Landform (hillslope, terrace, etc.): Low Hill | Local relief (concave, convex, none): | Convex Slope (%): 1-10 | | | | | | | |
| Subregion (LRR or MLRA): LRR R | Lat: 43.1042482 Long: | -76.6212693 Datum: WGS84 | | | | | | | |
| Soil Map Unit Name: HiB, Hilton loam, 3 to 8 perce | ent slopes | NWI classification: | | | | | | | |
| Are climatic/hydrologic conditions on the site typical for this time of year? Yes 🖌 No (If no, explain in Remarks.) | | | | | | | | | |
| | significantly disturbed? Are "Normal Circums naturally problematic? (If needed, explain ar | tances" present? Yes _✔ No y answers in Remarks.) | | | | | | | |

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

| Hydrophytic Vegetation Present? | Yes No 🟒 | | |
|---|-------------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes No 🟒 | Is the Sampled Area within a Wetland? | Yes No 🟒 |
| Wetland Hydrology Present? | Yes No 🟒 | If yes, optional Wetland Site ID: | |
| Remarks: (Explain alternative procedure | es here or in a separate repo | rt) | |
| | | | |
| | | | |
| TRC covertype is UPL. | | | |
| | | | |
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| | | | |

Sampling Point: <u>W-JJB-08; UPL-1</u>

| 60 25 | Yes | FACU | AND ODL FACIAL ON FAC | 0 | |
|----------|--------------------------|---|--|--|---|
| 25 | | FACU | Are OBL, FACW, or FAC: | | (A) |
| | Yes | FACU | Total Number of Dominant Species | 4 | (B) |
| 5 | No | FAC | Across All Strata: | | |
| | | | | 0 | (A/B) |
| | | | | | |
| | · | | | | _ |
| | · | | | | - |
| 90 | = Total Cov | er | · · · · · · · · · · · · · · · · · · · | | 0 |
| | - | | · · · · · · · · · · · · · · · · · · · | - | 0 |
| 25 | Yes | FACU | · · · | | 15 |
| | · | | · · · · · · · · · · · · · · · · · · · | - | 460 |
| | | | · · · · · · · · · · · · · · · · · · · | x 5 = _ | 0 |
| | · | | | (A) | 475 (B |
| | | | Prevalence Index = B/A = | 4 | |
| | | | Hydrophytic Vegetation Indicators: | | |
| | · | | 1- Rapid Test for Hydrophytic | Vegetation | |
| 25 | - Total Cov | or | 2 - Dominance Test is > 50% | | |
| 25 | | er | 3 - Prevalence Index is ≤ 3.0^1 | | |
| F | Vee | FACU | 4 - Morphological Adaptations | ¹ (Provide | supportir |
| 5 | Yes | FACU | - data in Remarks or on a separate s | neet) | |
| | · | | Problematic Hydrophytic Vege | etation ¹ (Ex | plain) |
| | | | ¹ Indicators of hydric soil and wetlar | nd hydrolo | gy must b |
| | · | | present, unless disturbed or proble | matic | |
| | | | Definitions of Vegetation Strata: | | |
| | | | Tree – Woody plants 3 in. (7.6 cm) o | r more in o | diameter a |
| | | | breast height (DBH), regardless of h | neight. | |
| | | | Sapling/shrub - Woody plants less | han 3 in. E |)BH and |
| | | | greater than or equal to 3.28 ft (1 m | n) tall. | |
| | | | | | gardless o |
| | | | | | |
| | | | | ter than 3 | 28 ft in |
| 5 | = Total Cov | er | height. | | |
| | _ | | Hydrophytic Vegetation Present? | Yes N | io 🟒 |
| | | | | | |
| | · | | - | | |
| | | | - | | |
| | <u> </u> | | - | | |
| | - Total Cov | or | - | | |
| | 90 25 25 5 5 | 90 = Total Cov 25 Yes 25 Yes 25 Total Cov 5 Yes 5 Yes 5 = Total Cov | 90 = Total Cover 25 Yes FACU 25 Yes FACU 25 = Total Cover 5 Yes FACU 5 Total Cover 5 5 = Total Cover | Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: India % Cover of: 90 90 = Total Cover ACW species 0 FACU FACU FACU species 0 1 1 1 1 1 1 1 1 1 1 1 1 1 25 Yes FACU 1 1 1 25 1 25 1 25 1 25 1 25 26 27 28 29 29 20 21 22 25 1 26 < | Percent of Dominant Species That 0 Are OBL, FACW, or FAC: |

| Depth | Matrix | | Redox | Feat | ures | | or confirm the a | | |
|---|--|-----------|---------------------------------|-------|-------------------|------------------|---------------------------------|---|---|
| inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | | Remarks |
| 0 - 6 | 10YR 3/4 | 100 | | _ | | | Silt Loam | 1 | |
| 6 - 15 | 10YR 4/4 | 100 | | | | | Silt Loam | <u>ו</u> | |
| | | | | _ | | | | | |
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| | | | | - | | | | | |
| <u></u> | Concentration, D = | <u> </u> | p DM - Doducod | Mat | | Mackad S | and Grains 21 | ocation: DI - | Pore Lining, M = Matrix. |
| | Indicators: | Depletio | n, RM – Reduced | wat | 11X, IVIS – I | iviaskeu s | anu GrainsL | | or Problematic Hydric Soils ³ : |
| _Histoso | | | Polyvalue Bel | ow S | urface (S | 8) (LRR R, | MLRA 149B) | | uck (A10) (LRR K, L, MLRA 149B) |
| _ Histic E | pipedon (A2) | | Thin Dark Su | rface | (S9) (LRR | R, MLRA | 149B) | | rairie Redox (A16) (LRR K, L, R) |
| _ | istic (A3) | | Loamy Mucky | | | (LRR K, L) | | | ucky Peat or Peat (S3) (LRR K, L, R) |
| | en Sulfide (A4) | | Loamy Gleye | | | | | | rface (S7) (LRR K, L) |
| | d Layers (A5) | | Depleted Ma | | | | | | ue Below Surface (S8) (LRR K, L) |
| | d Below Dark Surfa | ace (A11 | | | | | | - | rk Surface (S9) (LRR K, L) |
| | ark Surface (A12) | | Depleted Dar | | | | | | nganese Masses (F12) (LRR K, L, R) |
| Candy | | | | ccinr | is (F8) | | | | <u> </u> |
| | /lucky Mineral (S1) | | Redox Depre | 33101 | 13 (1 0) | | | Piedmo | nt Floodplain Soils (F19) (MLRA 149B) |
| _ Sandy (| Gleyed Matrix (S4) | | Redox Depre | 33101 | 15 (1 0) | | | | nt Floodplain Soils (F19) (MLRA 149B) podic (TA6) (MLRA 144A, 145, 149B) |
| _ Sandy (| • | | Redox Depre | 33101 | 13 (1 0) | | | Mesic S | podic (TA6) (MLRA 144A, 145, 149B) |
| Sandy (Sandy F | Gleyed Matrix (S4) | | Redox Depre | 33101 | 15 (1 C) | | | Mesic S Red Par | podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) |
| _ Sandy (_ Sandy F _ Strippe | Gleyed Matrix (S4) Redox (S5) | 1LRA 149 | | 33101 | | | | Mesic S Red Par Very Sh | podic (TA6) (MLRA 144A, 145, 149B) |
| _ Sandy (_ Sandy F _ Strippe _ Dark Su | Gleyed Matrix (S4) Redox (S5) d Matrix (S6) | | 98) | | | e present, | unless disturbe | Mesic S Red Par Very Sh Other (E | podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (TF12) Explain in Remarks) |
| _ Sandy (_ Sandy F _ Strippe _ Dark Su | Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N | etation a | 98) | | | e present, | unless disturbe | Mesic S Red Par Very Sh Other (E | podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (TF12) Explain in Remarks) |
| _ Sandy (_ Sandy F _ Strippe _ Dark Su | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg | etation a | 98) | | | | unless disturbe oil Present? | Mesic S Red Par Very Sh. Other (E ed or problem | podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (TF12) Explain in Remarks) |
| _ Sandy (_ Sandy F _ Strippe _ Dark Su | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed) : | etation a | 9 B) and wetland hydr | | | | | Mesic S Red Par Very Sh. Other (E ed or problem | podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (TF12) Explain in Remarks) aatic. |
| _ Sandy C _ Sandy F _ Strippe _ Dark Su ndicators | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed) : Type: | etation a | 9 B) and wetland hydr | | | | | Mesic S Red Par Very Sh. Other (E ed or problem | podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (TF12) Explain in Remarks) aatic. |
| _ Sandy C _ Sandy F _ Strippe _ Dark Su dicators strictive | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed) : Type: | etation a | 9 B) and wetland hydr | | | | | Mesic S Red Par Very Sh. Other (E ed or problem | podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (TF12) Explain in Remarks) aatic. |
| _ Sandy C _ Sandy F _ Strippe _ Dark Su dicators strictive | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed) : Type: | etation a | 9 B) and wetland hydr | | | | | Mesic S Red Par Very Sh. Other (E ed or problem | podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (TF12) Explain in Remarks) aatic. |
| _ Sandy C _ Sandy F _ Strippe _ Dark Su dicators strictive | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed) : Type: | etation a | 9 B) and wetland hydr | | | | | Mesic S Red Par Very Sh. Other (E ed or problem | podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (TF12) Explain in Remarks) atic. |
| _ Sandy C _ Sandy F _ Strippe _ Dark Su dicators strictive | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed) : Type: | etation a | 9 B) and wetland hydr | | | | | Mesic S Red Par Very Sh. Other (E ed or problem | podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (TF12) Explain in Remarks) aatic. |
| Sandy C Sandy F Strippe Dark Su dicators strictive | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed) : Type: | etation a | 9 B) and wetland hydr | | | | | Mesic S Red Par Very Sh. Other (E ed or problem | podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (TF12) Explain in Remarks) aatic. |
| Sandy C Sandy F Strippe Dark Su dicators strictive | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed) : Type: | etation a | 9 B) and wetland hydr | | | | | Mesic S Red Par Very Sh. Other (E ed or problem | podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (TF12) Explain in Remarks) aatic. |
| Sandy C Sandy F Strippe Dark Su dicators | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed) : Type: | etation a | 9 B) and wetland hydr | | | | | Mesic S Red Par Very Sh. Other (E ed or problem | podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (TF12) Explain in Remarks) aatic. |
| Sandy C Sandy F Strippe Dark Su dicators strictive | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed) : Type: | etation a | 9 B) and wetland hydr | | | | | Mesic S Red Par Very Sh. Other (E ed or problem | podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (TF12) Explain in Remarks) aatic. |
| Sandy C Sandy F Strippe Dark Su dicators | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed) : Type: | etation a | 9 B) and wetland hydr | | | | | Mesic S Red Par Very Sh. Other (E ed or problem | podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (TF12) Explain in Remarks) aatic. |
| _ Sandy C _ Sandy F _ Strippe _ Dark Su dicators strictive | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed) : Type: | etation a | 9 B) and wetland hydr | | | | | Mesic S Red Par Very Sh. Other (E ed or problem | podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (TF12) Explain in Remarks) aatic. |
| _ Sandy C _ Sandy F _ Strippe _ Dark Su ndicators | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed) : Type: | etation a | 9 B) and wetland hydr | | | | | Mesic S Red Par Very Sh. Other (E ed or problem | podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (TF12) Explain in Remarks) aatic. |
| _ Sandy C _ Sandy F _ Strippe _ Dark Su ndicators | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed) : Type: | etation a | 9 B) and wetland hydr | | | | | Mesic S Red Par Very Sh. Other (E ed or problem | podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (TF12) Explain in Remarks) atic. |
| _ Sandy C _ Sandy F _ Strippe _ Dark Su ndicators | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed) : Type: | etation a | 9 B) and wetland hydr | | | | | Mesic S Red Par Very Sh. Other (E ed or problem | podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (TF12) Explain in Remarks) aatic. |
| _ Sandy (_ Sandy F _ Strippe _ Dark Su ndicators | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed) : Type: | etation a | 9 B) and wetland hydr | | | | | Mesic S Red Par Very Sh. Other (E ed or problem | podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (TF12) Explain in Remarks) aatic. |
| _ Sandy C _ Sandy F _ Strippe _ Dark Su ndicators | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed) : Type: | etation a | 9 B) and wetland hydr | | | | | Mesic S Red Par Very Sh. Other (E ed or problem | podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (TF12) Explain in Remarks) aatic. |
| _ Sandy C _ Sandy F _ Strippe _ Dark Su dicators strictive | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed) : Type: | etation a | 9 B) and wetland hydr | | | | | Mesic S Red Par Very Sh. Other (E ed or problem | podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (TF12) Explain in Remarks) natic. |
| _ Sandy C _ Sandy F _ Strippe _ Dark Su dicators strictive | Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR R, N of hydrophytic veg Layer (if observed) : Type: | etation a | 9 B) and wetland hydr | | | | | Mesic S Red Par Very Sh. Other (E ed or problem | podic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (TF12) Explain in Remarks) atic. |

Vegetation Photos



Soil Photos

Photo of Sample Plot



| Project/Site: garnet | City/County: Port Byron, Cayuga County | Sampling Date: 2020-Nov-06 |
|--|---|---|
| Applicant/Owner: NextEra | State: New York | Sampling Point: W-JJB-08; UPL-2 |
| Investigator(s): Jake Brillo, Ryan Snow, Jacob brillo | Section, Township, Range: | |
| Landform (hillslope, terrace, etc.): Hillslope | Local relief (concave, convex, none) | Convex Slope (%): 2-5 |
| Subregion (LRR or MLRA): LRR R | Lat: 43.1043246 Long | -76.6208181 Datum: WGS84 |
| Soil Map Unit Name: HiB, Hilton loam, 3 to 8 perce | ent slopes | NWI classification: None |
| Are climatic/hydrologic conditions on the site typical | for this time of year? Yes _∠_ No (If r | o, explain in Remarks.) |
| | significantly disturbed? Are "Normal Circum naturally problematic? (If needed, explain a | stances" present? Yes 🟒 No ny answers in Remarks.) |

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

| Hydrophytic Vegetation Present? | Yes No 🟒 | | |
|---|------------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes No 🟒 | Is the Sampled Area within a Wetland? | Yes No 🟒 |
| Wetland Hydrology Present? | Yes No 🟒 | If yes, optional Wetland Site ID: | |
| Remarks: (Explain alternative procedure | s here or in a separate repo | rt) | |
| | | | |
| | | | |
| TRC covertype is UPL. | | | |
| | | | |
| | | | |
| | | | |

| Wetland Hydrology Indicators: | | | | |
|--|---------------------|---|---|--|
| Primary Indicators (minimum of on | <u>e is require</u> | d; check all tha | t apply) | Secondary Indicators (minimum of two required) |
| 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 Ima Sparsely Vegetated Concave Sur | 0,1,1,1 | Aquatic F. Marl Depr Hydrogen Oxidized Presence Recent Irco Thin Mucl | ined Leaves (B9) auna (B13) osits (B15) Sulfide Odor (C1) Rhizospheres on Living Roots (C of Reduced Iron (C4) on Reduction in Tilled Soils (C6) < Surface (C7) olain in Remarks) | 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 I | No 🟒 | Depth (inches): | |
| Water Table Present? | Yes I | No 🔽 | Depth (inches): | Wetland Hydrology Present? Yes No |
| Saturation Present? | Yes I | No 🟒 | Depth (inches): | |
| (includes capillary fringe) | | | | |
| Describe Recorded Data (stream ga | auge, monit | oring well, aeria | al photos, previous inspections) | if available: |
| | | | | |

Sampling Point: W-JJB-08; UPL-2

| <u>Tree Stratum</u> (Plot size: <u>30 ft</u>) | | Dominant Species? | Indicator Status | Dominance Test worksheet: Number of Dominant Species That | | |
|---|----|----------------------|---------------------|---|---------------------------|-----------|
| 1. Tsuga canadensis | 80 | Yes | FACU | Are OBL, FACW, or FAC: | 2 | (A) |
| 2. Acer rubrum | 10 | No | FAC | Total Number of Dominant Species | | |
| | | · | TAC | Across All Strata: | 6 | (B) |
| | · | | | Percent of Dominant Species That | 33.3 | (A/B) |
| | | | | Are OBL, FACW, or FAC: | | (AD) |
| | | | | Prevalence Index worksheet: | | |
| | | | | Total % Cover of: | <u>Multiply E</u> | <u>y:</u> |
| · | | = Total Cov | er | OBL species 0 | x 1 = | 0 |
| apling/Shrub Stratum (Plot size: <u>15 ft</u>) | | - | CI | FACW species 5 | x 2 = | 10 |
| . Acer rubrum | 10 | Yes | FAC | FAC species 20 | x 3 = | 60 |
| . Prunus serotina | 5 | Yes | FACU | FACU species 100 | x 4 = | 400 |
| | | 163 | FACO | UPL species 0 | x 5 = | 0 |
| | | | | Column Totals 125 | (A) | 470 (B) |
| · · · · · · · · · · · · · · · · · · · | | | | Prevalence Index = B/A = | 3.8 | |
| | | · | | Hydrophytic Vegetation Indicators: | | |
| • | | <u> </u> | | 1- Rapid Test for Hydrophytic | Vegetation | |
| · | | | | 2 - Dominance Test is > 50% | | |
| | 15 | = Total Cov | er | 3 - Prevalence Index is ≤ 3.0^1 | | |
| lerb Stratum (Plot size: <u>5 ft</u>) | 10 | | EA CL | 4 - Morphological Adaptations | ¹ (Provide s | upportin |
| . Polystichum acrostichoides | | Yes | FACU | data in Remarks or on a separate s | neet) | |
| . Dryopteris carthusiana | 5 | Yes | FACW | Problematic Hydrophytic Vege | etation ¹ (Exp | olain) |
| 8. Rosa multiflora | 5 | Yes | FACU | ¹ Indicators of hydric soil and wetlar | nd hydrolog | y must b |
| | | | | present, unless disturbed or proble | matic | |
| | | | | Definitions of Vegetation Strata: | | |
| | | | | Tree – Woody plants 3 in. (7.6 cm) o | | iameter a |
| · | | | | breast height (DBH), regardless of h | - | |
| B | | | | Sapling/shrub – Woody plants less | | 3H and |
|) | | | | greater than or equal to 3.28 ft (1 m | | |
| 0 | | | | Herb – All herbaceous (non-woody) | | ardless o |
| 1 | | | | size, and woody plants less than 3.2 | | 0.4.: |
| 2 | | | | Woody vines – All woody vines greater height. | ter triari 5.2 | 01111 |
| | 20 | = Total Cov | er | | | |
| <u> Noody Vine Stratum</u> (Plot size: <u>30 ft</u>) | | | | Hydrophytic Vegetation Present? | Yes No | >_∕_ |
| l | | | | _ | | |
| | | | | . | | |
| 3 | | | | _ | | |
| ł | | | | _ | | |
| | 0 | = Total Cov | er | | | |

| 0 - 10 0 - 18 10 0 - 18 10 0 - 18 10 10 10 10 10 10 10 10 10 10 | or (moist) 0YR 3/1 0YR 5/4 | 100 | lor (moist) | Feature % Ty 5 | <u>rpe1</u> Loc M | Sil | exture It Loam /elly Sand | Remarks |
|---|----------------------------------|-----------------|---------------------------------------|--|----------------------|-------------------|---------------------------------|--|
| 0 - 10 0 - 18 10 0 - 18 10 10 10 10 10 10 10 10 10 10 | 0YR 3/1 | 100 | | | · | Sil | lt Loam | |
| 0 - 18 10 0 - 18 10 0 - 18 10 10 10 10 10 10 10 10 10 10 | | | 10YR 3/1 | 5 | M | | | |
| pe: C = Concentr dric Soil Indicator Histosol (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfid Stratified Layers Depleted Below Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M Sandy Gleyed M Sandy Redox (St Stripped Matrix Dark Surface (St dicators of hydro strictive Layer (if Type: Depth (i | | | | | | | | |
| dric Soil Indicator Histosol (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfid Stratified Layers Depleted Below Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M Sandy Redox (S ² Stripped Matrix Dark Surface (S ² dicators of hydro strictive Layer (if Type: Depth (i | | | | | | | | |
| dric Soil Indicator Histosol (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfid Stratified Layers Depleted Below Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M Sandy Redox (S ² Stripped Matrix Dark Surface (S ² dicators of hydro strictive Layer (if Type: Depth (i | | | | | | _ | | |
| dric Soil Indicator Histosol (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfid Stratified Layers Depleted Below Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M Sandy Redox (S ² Stripped Matrix Dark Surface (S ² dicators of hydro strictive Layer (if Type: Depth (i | | | | | | | | |
| dric Soil Indicator Histosol (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfid Stratified Layers Depleted Below Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M Sandy Redox (S ² Stripped Matrix Dark Surface (S ² dicators of hydro strictive Layer (if Type: Depth (i | | | | | | | | |
| dric Soil Indicator Histosol (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfid Stratified Layers Depleted Below Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M Sandy Redox (S ² Stripped Matrix Dark Surface (S ² dicators of hydro strictive Layer (if Type: Depth (i | | | | | | | | |
| dric Soil Indicator Histosol (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfid Stratified Layers Depleted Below Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M Sandy Redox (S ² Stripped Matrix Dark Surface (S ² dicators of hydro strictive Layer (if Type: Depth (i | | | | | | | | |
| dric Soil Indicator Histosol (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfid Stratified Layers Depleted Below Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M Sandy Redox (S ² Stripped Matrix Dark Surface (S ² dicators of hydro strictive Layer (if Type: Depth (i | | | | | | | | |
| dric Soil Indicator Histosol (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfid Stratified Layers Depleted Below Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M Sandy Redox (S ² Stripped Matrix Dark Surface (S ² dicators of hydro strictive Layer (if Type: Depth (i | | | · · · · · · · · · · · · · · · · · · · | | | _ | | |
| Histosol (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfid Stratified Layers Depleted Below Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M Sandy Redox (S ¹ Stripped Matrix Dark Surface (S ² dicators of hydro strictive Layer (if Type: Depth (i | | · Depletion, RM | л = Reduced I | Matrix, l | MS = Mask | ed Sand Grains. | | e Lining, M = Matrix. |
| Histic Epipedon Black Histic (A3) Hydrogen Sulfid Stratified Layers Depleted Below Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M Sandy Redox (S ¹ Stripped Matrix Dark Surface (S ² dicators of hydro strictive Layer (if Type: Depth (i | ors: | - | Nelson Dela | C C | | | | Problematic Hydric Soils ³ : |
| Black Histic (A3) Hydrogen Sulfid Stratified Layers Depleted Below Thick Dark Surfa Sandy Mucky Mi Sandy Redox (S Stripped Matrix Dark Surface (S dicators of hydro strictive Layer (if Type: Depth (i | (10) | | 5 | | | R R, MLRA 149B) | | (A10) (LRR K, L, MLRA 149B) |
| Hydrogen Sulfid Stratified Layers Depleted Below Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M Sandy Redox (St Stripped Matrix Dark Surface (St dicators of hydro strictive Layer (if Type: Depth (i | | | hin Dark Sur | | | | | ie Redox (A16) (LRR K, L, R) |
| Stratified Layers Depleted Below Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M Sandy Redox (S Stripped Matrix Dark Surface (S dicators of hydro strictive Layer (if Type: Depth (i | | | .oamy Mucky .oamy Gleyed | | | ς, L) | | y Peat or Peat (S3) (LRR K, L, R) |
| Depleted Below Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M Sandy Redox (S Stripped Matrix Dark Surface (S dicators of hydro strictive Layer (if Type: Depth (i | | | | | (FZ) | | Dark Surfac | ce (S7) (LRR K, L) |
| Thick Dark Surfa Sandy Mucky Mi Sandy Gleyed M Sandy Redox (S Stripped Matrix Dark Surface (S dicators of hydro strictive Layer (if Type: Depth (i | | | Depleted Mati | | | | Polyvalue B | Below Surface (S8) (LRR K, L) |
| Sandy Mucky Mi Sandy Gleyed M Sandy Redox (S Stripped Matrix Dark Surface (S dicators of hydro strictive Layer (if Type: Depth (i | | | | | | | Thin Dark S | Surface (S9) (LRR K, L) |
| Sandy Gleyed M Sandy Redox (S Stripped Matrix Dark Surface (S dicators of hydro strictive Layer (if Type: Depth (i | | | Depleted Dark | | | | | anese Masses (F12) (LRR K, L, R) |
| Sandy Redox (S Stripped Matrix Dark Surface (S dicators of hydro strictive Layer (if Type: Depth (i | | | Redox Depres | ssions (F | 8) | | • | loodplain Soils (F19) (MLRA 149B) |
| Stripped Matrix Dark Surface (S dicators of hydro strictive Layer (if Type: Depth (i | | | | | | | | lic (TA6) (MLRA 144A, 145, 149B) |
| Dark Surface (S dicators of hydro strictive Layer (if Type: Depth (i | S5) | | | | | | Red Parent | |
| Dark Surface (S dicators of hydro strictive Layer (if Type: Depth (i | x (S6) | | | | | | | |
| strictive Layer (if Type: Depth (i | | MLRA 149B) | | | | | | w Dark Surface (TF12) ain in Remarks) |
| Type: Depth (i | rophytic vege | getation and v | vetland hydro | ology mi | ust be pres | ent, unless distu | irbed or problematic | |
| Depth (i | if observed): |): | | | | | | |
| | | No | one | | Hyd | ric Soil Present? | | Yes No⁄_ |
| marks: | (inches): | | | | | | | |
| | | | | | | | | |

Vegetation Photos



Soil Photos

Photo of Sample Plot



| Project/Site: Garnet | | | City/County: Weed | lsport, Cay | uga | | Sampling Date: | 2020-June-17 |
|---------------------------------|----------------|--------------------|--|--------------|-------------------|----------|--------------------------------------|--------------------|
| Applicant/Owner: N | lextEra | | | | State: NY | | Sampling Point: | W-NSD-01; PEM-2 |
| Investigator(s): Nick | DeJohn, Bridg | ette Rooney | | Sect | ion, Township, Ra | inge: | | |
| Landform (hillslope, te | rrace, etc.): | Depression | I | Local relief | (concave, convex | , none): | Concave | Slope (%): 0-1 |
| Subregion (LRR or MLF | RA): LRR | L | | Lat: | 43.117459165 | Long: | -76.6028170009 | Datum: WGS84 |
| Soil Map Unit Name: | Muck, deep | | | | | | NWI classific | ation: |
| Are climatic/hydrologic | c conditions o | n the site typical | for this time of yea | ır? | Yes 🟒 No 🔄 | (If no | o, explain in Rema | rks.) |
| Are Vegetation, Are Vegetation, | | , , , | significantly dist naturally proble | | | | tances" present? y answers in Rem | Yes 🟒 No arks.) |

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

| Hydrophytic Vegetation Present? | Yes 🟒 No | | |
|---|----------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes 🟒 No | Is the Sampled Area within a Wetland? | Yes 🯒 No |
| Wetland Hydrology Present? | Yes 🟒 No | If yes, optional Wetland Site ID: | W-NSD-01 |
| Remarks: (Explain alternative procedures he | re or in a separate report |) | |
| | | | |
| | | | |
| TRC covertype is PEM. | | | |
| | | | |
| | | | |
| | | | |

| Wetland Hydrology Indicators | : | | |
|--|-------------------------------|--|--|
| Primary Indicators (minimum | of one is required; check all | that apply) | Secondary Indicators (minimum of two required) |
| 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 Aeria Sparsely Vegetated Concav | 0, | ✓ Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) | |
| Field Observations: | | | |
| Surface Water Present? | Yes No 🟒 | Depth (inches): | |
| Water Table Present? | Yes 🖌 No | Depth (inches): | 4 Wetland Hydrology Present? Yes No |
| Saturation Present? | Yes 🟒 No | Depth (inches): | 0 |
| (includes capillary fringe) | | | |
| Remarks: | am gauge, monitoring well, . | aerial photos, previous inspection | ons), if available: |

Sampling Point: W-NSD-01; PEM-2

| <u>Tree Stratum</u> (Plot size: <u>30 ft</u>) | | Dominant | | Dominance Test worksheet: | | |
|--|---------|-------------|--------|---|--------------|------------|
| l. | % Cover | Species? | Status | Number of Dominant Species That Are OBL, FACW, or FAC: | 3 | (A) |
| · 2. | | | | Total Number of Dominant Species | 3 | (B) |
| | | | | Across All Strata: | | (8) |
| l | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: | 100 | (A/B) |
| | | | | - Prevalence Index worksheet: | | |
| | | | | - <u>Total % Cover of:</u> | Multiply B | v |
| · | | | | - OBL species 78 | x 1 = | 7 8 |
| | 0 | = Total Cov | er | FACW species 20 | x 2 = | 40 |
| Sapling/Shrub Stratum (Plot size: <u>15 ft</u>) | | | | FAC species 0 | x 3 = | 0 |
| | | | | - FACU species 0 | x 4 = | 0 |
| <u> </u> | | | | - UPL species 0 | x 5 = | 0 |
| 3 | | | | - Column Totals 98 | (A) | 118 (B) |
| | | | | Prevalence Index = B/A = | (A) 1.2 | 110 (D) |
| | | | | | | |
| | | | | Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Vegetation | Vegetation | |
| | | | | 2 - Dominance Test is >50% | vegetation | |
| | 0 | = Total Cov | er | \checkmark 3 - Prevalence Index is $\leq 3.0^{1}$ | | |
| <u>lerb Stratum</u> (Plot size: <u>5 ft</u>) | | | | 4 - Morphological Adaptations | 1 (Provide s | unnorting |
| . Carex lacustris | 45 | Yes | OBL | - data in Remarks or on a separate sl | | apporting |
| 2. Typha latifolia | 33 | Yes | OBL | Problematic Hydrophytic Vege | | lain) |
| 3. Impatiens capensis | 20 | Yes | FACW | ¹ Indicators of hydric soil and wetlar | | |
| ł | | | | present, unless disturbed or proble | | |
| 5 | | | | Definitions of Vegetation Strata: | | |
| 5 | | | | Tree – Woody plants 3 in. (7.6 cm) o | r more in di | ameter a |
| 7. | | | | breast height (DBH), regardless of h | | |
| 3. | | | | Sapling/shrub - Woody plants less t | | 3H and |
| Ð. | | | | greater than or equal to 3.28 ft (1 m | n) tall. | |
| 0. | | | | Herb – All herbaceous (non-woody) | plants, rega | ardless of |
| 11. | | | | size, and woody plants less than 3.2 | 28 ft tall. | |
| 12. | | | | Woody vines – All woody vines grea | ter than 3.2 | 8 ft in |
| | 98 | = Total Cov | er | height. | | |
| Woody Vine Stratum (Plot size: <u>30 ft</u>) | | | - | Hydrophytic Vegetation Present? | Yes 🟒 No |) |
| 1. | | | | | | |
| 2. | | | | - | | |
| 3. | | | | - | | |
| | | | | - | | |
| | | = Total Cov | or | - | | |
| 4 | 0 | = Total Cov | er | - | | |

| (inches) Color (moist) 0 - 20 10YR 2/1 10YR 2/1 10YR | % Color (moist) 100 | <u>%</u> <u>Type1</u> | Org ma | xture Remarks ttter Muck |
|--|---------------------------------------|-----------------------|------------------------------------|--|
| ype: C = Concentration, D = De vdric Soil Indicators: Histosol (A1) Histic Epipedon (A2) | | | | |
| y dric Soil Indicators: <u>′</u> Histosol (A1) _ Histic Epipedon (A2) | · | | | |
| y dric Soil Indicators: <u>/</u> Histosol (A1) _ Histic Epipedon (A2) | · | | | |
| d ric Soil Indicators: _ Histosol (A1) _ Histic Epipedon (A2) | · | | Masked Sand Grains. ² L | |
| d ric Soil Indicators: _ Histosol (A1) _ Histic Epipedon (A2) | · | | | |
| d ric Soil Indicators: Histosol (A1) Histic Epipedon (A2) | · | | Masked Sand Grains. ² L | |
| d ric Soil Indicators: _ Histosol (A1) _ Histic Epipedon (A2) | · | Matrix, MS = | Masked Sand Grains. ² L | |
| d ric Soil Indicators: Histosol (A1) Histic Epipedon (A2) | · | Matrix, MS = | Masked Sand Grains. ² L | |
| d ric Soil Indicators: _ Histosol (A1) _ Histic Epipedon (A2) | · | Matrix, MS = | Masked Sand Grains. ² L | |
| d ric Soil Indicators: _ Histosol (A1) _ Histic Epipedon (A2) | · | Matrix, MS = | Masked Sand Grains. ² L | |
| d ric Soil Indicators: _ Histosol (A1) _ Histic Epipedon (A2) | · | Matrix, MS = | Masked Sand Grains. ² L | |
| d ric Soil Indicators: _ Histosol (A1) _ Histic Epipedon (A2) | · | Matrix, MS = | Masked Sand Grains. ² L | |
| d ric Soil Indicators: Histosol (A1) Histic Epipedon (A2) | · | Matrix, MS = | Masked Sand Grains. 🕮 | easticut DI - Deve Lining M - Matrix |
| _ Histosol (A1) _ Histic Epipedon (A2) | Polyvalue Bel | | | , i i i i i i i i i i i i i i i i i i i |
| Histic Epipedon (A2) | Folyvalue Bel | ow Surface (S | | Indicators for Problematic Hydric Soils ³ : |
| | Thin Dark Su | | | 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| | Loamy Mucky | | | Coast Prairie Redox (A16) (LRR K, L, R) |
| _ Hydrogen Sulfide (A4) | Loamy Gleye | d Matrix (F2) | | 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) |
| _Stratified Layers (A5) | Depleted Mat | | | Polyvalue Below Surface (S8) (LRR K, L) |
| Depleted Below Dark Surface | | | | Thin Dark Surface (S9) (LRR K, L) |
| Thick Dark Surface (A12) | Depleted Dar | | | Iron-Manganese Masses (F12) (LRR K, L, R |
| Sandy Mucky Mineral (S1) | Redox Depre | SSIONS (F8) | | Piedmont Floodplain Soils (F19) (MLRA 14 |
| _ Sandy Gleyed Matrix (S4) _ Sandy Redox (S5) | | | | Mesic Spodic (TA6) (MLRA 144A, 145, 149 |
| _ Stripped Matrix (S6) | | | | Red Parent Material (F21) |
| _ Dark Surface (S7) (LRR R, ML I | RA 149B) | | | Very Shallow Dark Surface (TF12) Other (Explain in Remarks) |
| | | | | |
| dicators of hydrophytic veget | ation and wetland hydr | ology must be | e present, unless disturbe | ed or problematic. |
| strictive Layer (if observed): | Nama | | Libuduia Cail Duasanta | |
| Type: | None | - | Hydric Soil Present? | Yes 🟒 No |
| Depth (inches): | | | | |

Vegetation Photos

Soil Photos



Photo of Sample Plot





| Project/Site: Garnet | | | City/County: Weed | lsport, Cay | uga | | Sampling Date: | 2020-June-17 |
|---------------------------------|----------------|--------------------|--|-------------|-------------------|----------|---------------------------------------|--------------------|
| Applicant/Owner: N | lextEra | | | | State: NY | | Sampling Point: \ | W-NSD-01; PUB-1 |
| Investigator(s): Nick | DeJohn, Bridg | ette Rooney | | Sect | ion, Township, Ra | nge: | | |
| Landform (hillslope, te | rrace, etc.): | Depression | L | ocal relief | (concave, convex, | , none): | Concave | Slope (%): 0-1 |
| Subregion (LRR or MLF | RA): LRR | L | | Lat: | 43.1190033211 | Long: | -76.5999057145 | Datum: WGS84 |
| Soil Map Unit Name: | Muck, deep | | | | | | NWI classific | ation: |
| Are climatic/hydrologic | c conditions o | n the site typical | for this time of yea | r? | Yes 🟒 No 🔄 | (If no | o, explain in Remai | rks.) |
| Are Vegetation, Are Vegetation, | | , 0, _ | significantly dist naturally proble | | | | tances" present? y answers in Rema | Yes 🟒 No arks.) |

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

| Hydrophytic Vegetation Present? | Yes 🟒 No | | | | | | | |
|--|----------|---------------------------------------|----------|--|--|--|--|--|
| Hydric Soil Present? | Yes 🟒 No | Is the Sampled Area within a Wetland? | Yes 🧹 No | | | | | |
| Wetland Hydrology Present? | Yes 🟒 No | If yes, optional Wetland Site ID: | W-NSD-01 | | | | | |
| Remarks: (Explain alternative procedures here or in a separate report) | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| TRC covertype is PUB. | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| Wetland Hydrology Indicators: | | | | |
|--|-----------------------------|---------------------------------|---------------|--|
| Primary Indicators (minimum | of one is required; check a | <u>ll that apply)</u> | | Secondary Indicators (minimum of two required) |
| ✓ Surface Water (A1) Water-Stained Leaves (B9) ✓ High Water Table (A2) ✓ Aquatic Fauna (B13) ✓ Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) | | | | 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): | 36 | _ |
| Water Table Present? | Yes 🖌 No | Depth (inches): | 0 | Wetland Hydrology Present? Yes No |
| Saturation Present? | Yes 🟒 No | Depth (inches): | 0 | |
| (includes capillary fringe) | | | | |
| Describe Recorded Data (strea | im gauge, monitoring weil, | , aeriai priotos, previous insp | Jections), II | |
| | | | | |

Sampling Point: <u>W-NSD-01; PUB-1</u>

| Tree Stratum (Plot size: <u>30 ft</u>) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test workshe Number of Dominant Sp | | 2 | (A) |
|--|---------------------|---------------------------------|---------------------|---|------------|-----------------|-------------|
| 1. Acer rubrum | 10 | Yes | FAC | Are OBL, FACW, or FAC: | | Z | (A) |
| | | Percent cover cannot be greater | | Total Number of Domina Across All Strata: | | 2 | (B) |
| 2. Lemna minor | 60 | than a previous species | OBL | Percent of Dominant Spe Are OBL, FACW, or FAC: | ecies That | 100 | (A/B) |
| . Typha angustifolia | 10 | No | OBL | Prevalence Index worksh | eet: | | |
| | | | | Total % Cover of | <u>f:</u> | <u>Multiply</u> | By: |
| | | | | OBL species | 155 | x 1 = | 155 |
| | | | | FACW species | 0 | x 2 = | 0 |
| | | | | FAC species | 10 | x 3 = | 30 |
| | 80 | = Total Cover | | FACU species | 0 | x 4 = | 0 |
| apling/Shrub Stratum (Plot size:15 ft | | | | UPL species | 0 | x 5 = | 0 |
| | | | | Column Totals | 165 | (A) | 185 (B) |
| | | | | Prevalence Ind | ex = B/A = | 1.1 | |
| | | | | Hydrophytic Vegetation I | ndicators | | |
| | | | | 1- Rapid Test for Hy | | agetation | , |
| · | | | | 1 - Kapid Test for Hy 2 - Dominance Test | 1 2 | egetation | 1 |
| | | | | 2 - Dominance rest | | | |
| | · | | | 4 - Morphological A | | (Drovido | supportin |
| · | | | | data in Remarks or on a | | | supporting |
| | 0 | = Total Cover | | Problematic Hydro | - | | volain) |
| <u>lerb Stratum</u> (Plot size: <u>5 ft</u>) | | | | ¹ Indicators of hydric soil | | | |
| . Lemna minor | 80 | Yes | OBL | present, unless disturbed | | - | gy must be |
| . Typha angustifolia | 5 | No | OBL | Definitions of Vegetation | | | |
| l | | | | Tree – Woody plants 3 in | | more in | diameter a |
| l | | | | breast height (DBH), rega | | | |
| | | | | Sapling/shrub – Woody p | | | DBH and |
| | | | | greater than or equal to | | | |
| | | | | Herb – All herbaceous (n | | | gardless of |
| 3. | | | | size, and woody plants le | | | 0 |
|). | | | | Woody vines – All woody | | | .28 ft in |
| 0 | | | | height. | - | | |
| 1 | | | | Hydrophytic Vegetation | Present? Y | ′es 🖌 🛚 | No |
| 2. | | | | , | | · · · | |
| | | = Total Cover | | | | | |
| <u>Voody Vine Stratum</u> (Plot size: <u>30 ft</u>) | | - | | | | | |
| | | | | | | | |
| · | | | | | | | |
| | | | | · | | | |
| 3 | | , | | | | | |
| 1 | | - Tatal Cause | | | | | |
| | 0 | = Total Cover | | | | | |

| - | nches) | Color (moist) | <u>%</u> Color (mois | t) <u>%</u> 1 | Type ¹ Loc ² | Texture | e Remarks |
|---|------------|-------------------------------|----------------------|---------------|------------------------------------|-------------------|---|
| ric Soil Indicators: Histosol (A1)Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2)Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11)Redox Dark Surface (F6) Thick Dark Surface (A12)Depleted Dark Surface (F7) Hick Dark Surface (A12)Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type:None Depth (inches):None Depth (inches):None Hydric Soil Present? Yes No | | | · | | | | |
| ric Soil Indicators: Histosol (A1)Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2)Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11)Redox Dark Surface (F6) Thick Dark Surface (A12)Depleted Dark Surface (F7) Hick Dark Surface (A12)Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type:None Depth (inches):None Depth (inches):None Hydric Soil Present? Yes No | | | | | | | |
| ric Soil Indicators: Histosol (A1)Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2)Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11)Redox Dark Surface (F6) Thick Dark Surface (A12)Depleted Dark Surface (F7) Hick Dark Surface (A12)Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type:None Depth (inches):None Depth (inches):None Hydric Soil Present? Yes No | | | | | | | |
| ric Soil Indicators: Histosol (A1)Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2)Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11)Redox Dark Surface (F6) Thick Dark Surface (A12)Depleted Dark Surface (F7) Hick Dark Surface (A12)Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type:None Depth (inches):None Depth (inches):None Hydric Soil Present? Yes No | | | | | | | |
| ric Soil Indicators: Histosol (A1)Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2)Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11)Redox Dark Surface (F6) Thick Dark Surface (A12)Depleted Dark Surface (F7) Hick Dark Surface (A12)Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type:None Depth (inches):None Depth (inches):None Hydric Soil Present? Yes No | | | | | | | |
| ric Soil Indicators: Indicators: Histosol (A1) | | | | | | · | |
| ric Soil Indicators: Histosol (A1)Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2)Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11)Redox Dark Surface (F6) Thick Dark Surface (A12)Depleted Dark Surface (F7) Hick Dark Surface (A12)Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type:None Depth (inches):None Depth (inches):None Hydric Soil Present? Yes No | | | <u> </u> | | | | |
| ric Soil Indicators: Histosol (A1)Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2)Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11)Redox Dark Surface (F6) Thick Dark Surface (A12)Depleted Dark Surface (F7) Hick Dark Surface (A12)Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type:None Depth (inches):None Depth (inches):None Hydric Soil Present? Yes No | | | <u> </u> | | | · | |
| ric Soil Indicators: Indicators: Histosol (A1) | | | | | | | |
| ric Soil Indicators: Histosol (A1)Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2)Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11)Redox Dark Surface (F6) Thick Dark Surface (A12)Depleted Dark Surface (F7) Hick Dark Surface (A12)Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type:None Depth (inches):None Depth (inches):None Hydric Soil Present? Yes No | | | | | | | |
| Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) | | | epletion, RM = Redu | uced Matrix | k, MS = Maske | d Sand Grains. | |
| Histic Epipedon (A2) | | | Dehaushu | Delevis | feee (CO) (I DE | | 2 |
| Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Chick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Oark Surface (S7) (LRR R, MLRA 149B) ✓ Other (Explain in Remarks) icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type: None Depth (inches): Hydric Soil Present? | | . , | • | | | | |
| Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) S thi Mucky Peat OF Peat (S3) (LRK K, E, K) Stratified Layers (A5) Depleted Matrix (F3) Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Redox (S5) Red Parent Material (F21) Neric Soil (TA6) (MLRA 144A, 145, 149B) Sarripped Matrix (S6) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) | | • | | | | | |
| Stratified Layers (A5) | | | | | | -, | |
| Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Chick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Gandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. rictive Layer (if observed): None Type: None Depth (inches): Yes No | | | | | | | |
| Inick Dark Surface (A12) | Depleted | d Below Dark Surfac | ce (A11) Redox Da | ark Surface | (F6) | | - |
| Analy Mucky Mineral (S1) | Thick Da | ark Surface (A12) | Depleted | Dark Surfa | ace (F7) | | |
| Sandy Gleyed Matrix (S4)Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5)Red Parent Material (F21) Stripped Matrix (S6)Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B)Other (Explain in Remarks) icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. rictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No | Sandy M | lucky Mineral (S1) | Redox D | epressions | (F8) | | <u> </u> |
| Sandy Redox (S5) | Sandy G | ileyed Matrix (S4) | | | | | • • • • • • • • |
| Stripped Matrix (S6) | Sandy R | edox (S5) | | | | | • |
| Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. rictive Layer (if observed): None Type: None Depth (inches): None | Stripped | l Matrix (S6) | | | | | |
| icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. rictive Layer (if observed): Type:NoneHydric Soil Present? Yes _✓_ No Depth (inches): | Dark Sur | rface (S7) (LRR R, M I | _RA 149B) | | | | - |
| rictive Layer (if observed): Type:NoneHydric Soil Present? Yes No Depth (inches): | dicators (| of hydrophytic vege | tation and wetland | hydrology i | must be prese | ent, unless distu | |
| Depth (inches): | trictive L | ayer (if observed): | | | | | · |
| | | Туре: | None | | Hydri | c Soil Present? | Yes 🟒 No |
| narks: | | Depth (inches): | | | | | |
| | narks: | | | | | | |
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| to inundation a clear soil profile was unobtainable. Soils are assumed to be hydric. | to inun | dation a clear soil p | rofile was unobtain | able. Soils a | are assumed t | o be hydric. | |
| to inundation a clear soil profile was unobtainable. Soils are assumed to be hydric. | e to inun | dation a clear soil p | rofile was unobtain | able. Soils a | are assumed t | o be hydric. | |
| to inundation a clear soil profile was unobtainable. Soils are assumed to be hydric. | e to inun | dation a clear soil p | rofile was unobtain | able. Soils a | are assumed t | o be hydric. | |
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| to inundation a clear soil profile was unobtainable. Soils are assumed to be hydric. | e to inun | dation a clear soil p | rofile was unobtain | able. Soils a | are assumed t | o be hydric. | |
| to inundation a clear soil profile was unobtainable. Soils are assumed to be hydric. | e to inun | dation a clear soil p | rofile was unobtain | able. Soils a | are assumed t | o be hydric. | |
| to inundation a clear soil profile was unobtainable. Soils are assumed to be hydric. | to inun | dation a clear soil p | rofile was unobtain | able. Soils a | are assumed t | o be hydric. | |

Hydrology Photos



Vegetation Photos

Soil Photos



Photo of Sample Plot





| Project/Site: Garnet | | c | i ty/County: Weedspo | rt, Cay | uga | | Sampling Date: | 2020-June-17 | |
|--------------------------|----------------|--------------------|-----------------------------|----------|-------------------|----------|--------------------|-----------------|-----|
| Applicant/Owner: Ne | extEra | | | | State: NY | | Sampling Point: | W-NSD-01; UPL-1 | |
| Investigator(s): Nick | DeJohn, Bridge | ette Rooney | | Sect | ion, Township, Ra | nge: | | | |
| Landform (hillslope, ter | rrace, etc.): | Тое | Loca | l relief | (concave, convex, | , none): | Convex | Slope (%): 1 | -10 |
| Subregion (LRR or MLR | A): LRR L | | | Lat: | 43.1189687876 | Long: | -76.5999589395 | Datum: WGS | 584 |
| Soil Map Unit Name: | Ontario fine s | sandy loam, 8 to | 15 percent slopes | | | | NWI classific | cation: | |
| Are climatic/hydrologic | conditions on | the site typical f | or this time of year? | | Yes 🟒 No 🔄 | (lf n | o, explain in Rema | irks.) | |
| Are Vegetation, | Soil, | or Hydrology | _ significantly disturb | ed? | Are "Normal (| Circums | tances" present? | Yes 🟒 No 🔄 | |
| Are Vegetation, | Soil, | or Hydrology | _ naturally problemat | ic? | (If needed, ex | plain ar | ny answers in Rem | arks.) | |

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

| Hydrophytic Vegetation Present? | Yes No 🟒 | | |
|---|-------------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes No 🟒 | Is the Sampled Area within a Wetland? | Yes No 🟒 |
| Wetland Hydrology Present? | Yes No 🟒 | If yes, optional Wetland Site ID: | |
| Remarks: (Explain alternative procedure | es here or in a separate repo | rt) | |
| | | | |
| | | | |
| TRC covertype is UPL. | | | |
| | | | |
| | | | |
| | | | |

| Wetland Hydrology Indicators: | | | | | |
|---|--------------|--|---------------------------------|-----------|--|
| Primary Indicators (minimum of or | ie is requii | red; check all | <u>that apply)</u> | | Secondary Indicators (minimum of two required) |
| 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 Ima Sparsely Vegetated Concave Su | 0,,,,, | 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) | | | 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 🖌 | Depth (inches): | | Wetland Hydrology Present? Yes No |
| Saturation Present? | Yes | No 🖌 | Depth (inches): | | - |
| (includes capillary fringe) | | | - | | - |
| Describe Recorded Data (stream g | auge, mon | litoring well, a | aerial photos, previous inspect | ions), if | available: |
| | | | | | |

Sampling Point: W-NSD-01; UPL-1

| Absolute | Dominant | Indicator | Dominance Test worksheet: | | |
|----------|-------------|--------------------------|--|--|---|
| | <u> </u> | Status | - | 0 | (A) |
| | | | | 3 | (B) |
| | | | Percent of Dominant Species That | 0 | (A / P) |
| | | | Are OBL, FACW, or FAC: | | (A/B) |
| | · · | | | | |
| | · · | | | | • |
| | = Total Cov | er | · · · · · · · · · · · · · · · · · · · | | 0 |
| | - | | · · · · · · · · · · · · · · · · · · · | x 2 = | 0 |
| 10 | Voc | FACU | FAC species 5 | x 3 = | 15 |
| | 163 | FACU | FACU species 10 | x 4 = | 40 |
| | · | | UPL species 45 | x 5 = | 225 |
| | | | - Column Totals 60 | (A) | 280 (B) |
| | · | | Prevalence Index = B/A = | 4.7 | |
| | | | Hydrophytic Vegetation Indicators: | | |
| | | | 1- Rapid Test for Hydrophytic | Vegetation | n |
| 10 | - Total Cov | or | 2 - Dominance Test is > 50% | | |
| 10 | _ TOLAI COV | er | 3 - Prevalence Index is $\leq 3.0^1$ | | |
| 25 | Vac | וחו | 4 - Morphological Adaptation: | s¹ (Provide | supporting |
| | | | - data in Remarks or on a separate s | heet) | |
| | | | Problematic Hydrophytic Veg | etation ¹ (E> | kplain) |
| 5 | No | FAC | - ¹ Indicators of hydric soil and wetla | nd hydrolo | gy must be |
| | | | _ present, unless disturbed or proble | ematic | |
| | | | Definitions of Vegetation Strata: | | |
| | | | Tree – Woody plants 3 in. (7.6 cm) o | or more in | diameter a |
| | | | breast height (DBH), regardless of | neight. | |
| | | | Sapling/shrub – Woody plants less | than 3 in. [| OBH and |
| | | | _ | | |
| | | | - | | gardless of |
| | | | | | |
| | | | | ater than 3 | .28 ft in |
| 50 | = Total Cov | er | · · · | | |
| | - | | Hydrophytic Vegetation Present? | Yes N | No 🖌 |
| | | | | | |
| | | | - | | |
| | · | | - | | |
| | | | - | | |
| 0 | = Total Cov | er | - | | |
| | % Cover | % Cover Species? | % Cover Species? Status | % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: 0 0 = Total Cover ACU Species 0 = Total Cover ACU Species 0 = Total Cover ACU Species ACU Species ACU Species ACU Species D Yes FACU FACU Species ACU Species ACU Species ACU Species Total Cover ACU Species AS Yes UPL Species AS Prevalence Index is ≤ 3.0' A - Morphological Adaptations: data in Remarks or on a separate s Problematic Hydrophytic Veg S No FAC Indicators of hydric soil and wetlat present, unless disturbed or proble Defin | % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: 0 Image: Status Total Number of Dominant Species 3 Image: Status Percent of Dominant Species That Are OBL, FACW, or FAC: 0 Image: Status Percent of Dominant Species That Are OBL, FACW, or FAC: 0 Image: Status Percent of Dominant Species That Are OBL, FACW, or FAC: 0 Image: Status Percent of Dominant Species That Are OBL, FACW, or FAC: 0 Image: Status Percent of Dominant Species That Are OBL, FACW, or FAC: 0 Image: Status Percent of Dominant Species That Are OBL, FACW, or FAC: 0 Image: Status Percent of Dominant Species That Are OBL, FACW, or FAC: 0 Image: Status Image: Status 0 x1 = Image: Status FACU FACU Status 0 x1 = Image: Status Image: Status Image: Status 0 x2 = 10 x4 = Image: Status Image: Status Image: Status 10 X4 = 10 10 10 10 10 10 10 10 10 10 |

| 0 - 18 7.5YR 4/4 100 Silt Loam 0 - 18 7.5YR 4/4 100 Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam | Silt Loam |
|--|--|
| ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. ² Location: PL = Pore Lining, M = Matri ydric Soil Indicators: Indicators for Problematic Hydric Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, ML Histosol (A1) Loamy Mucky Mineral (F1) (LRR K, L) 2 cm Muck (A10) (LRR K, L, ML Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, ML Black Histic (A3) Loamy Gleyed Matrix (F2) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Dork Surface (S7) (LRR K, L) Stratified Layers (A5) Depleted Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Depleted Dark Surface (F7) Thin Dark Surface (S9) (LRR K, L) Strady Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F12) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144 Red Parent Material (F21) Stripped Matrix (S6) Other (Explain in Remarks) Other (Explain in Remarks) Dark Surface (S7) Hurr R, MLRA 149B) Other (Explain in Remarks) | rains. ² Location: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils ³ : 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) 0 coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 0 Dark Surface (S7) (LRR K, L) 1 ron-Manganese Masses (F12) (LRR K, L, R) 1 rino-Manganese Masses (F12) (LRR K, L, R) 1 redmont Floodplain Soils (F19) (MLRA 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) |
| dric Soil Indicators:Indicators for Problematic HydricHistosol (A1)Polyvalue Below Surface (S8) (LRR R, MLRA 149B)2 cm Muck (A10) (LRR K, L, MLLHistic Epipedon (A2)Thin Dark Surface (S9) (LRR R, MLRA 149B)2 cm Muck (A10) (LRR K, L, MLLBlack Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L)5 cm Mucky Peat or Peat (S3) (Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2)Depleted Matrix (F3)Stratified Layers (A5)Depleted Matrix (F3)Depleted Below Dark Surface (A11)Depleted Below Dark Surface (A11)Redox Dark Surface (F6)Thin Dark Surface (S9) (LRR K, L)Sandy Mucky Mineral (S1)Redox Depressions (F8)Piedmont Floodplain Soils (F12)Sandy Redox (S5)Stripped Matrix (S6)Mesic Spodic (TA6) (MLRA 144B)Dark Surface (S7) (LRR R, MLRA 149B)Other (Explain in Remarks)dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. | Indicators for Problematic Hydric Soils ³ : 149B)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) 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) Nesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) |
| dric Soil Indicators:Indicators for Problematic HydricHistosol (A1)Polyvalue Below Surface (S8) (LRR R, MLRA 149B)2 cm Muck (A10) (LRR K, L, MLLHistic Epipedon (A2)Thin Dark Surface (S9) (LRR R, MLRA 149B)2 cm Muck (A10) (LRR K, L, MLLBlack Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L)5 cm Mucky Peat or Peat (S3) (Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2)5 cm Mucky Peat or Peat (S3) (Stratified Layers (A5)Depleted Matrix (F3)Polyvalue Below Surface (S7) (LRR K, L)Depleted Below Dark Surface (A11)Redox Dark Surface (F6)Inin Dark Surface (S9) (LRR K, L)Thick Dark Surface (A12)Depleted Dark Surface (F7)Ino-Manganese Masses (F12)Sandy Mucky Mineral (S1)Redox Depressions (F8)Piedmont Floodplain Soils (F12)Sandy Redox (S5)Dark Surface (S7) (LRR R, MLRA 149B)New Surface (TFDark Surface (S7) (LRR R, MLRA 149B)Other (Explain in Remarks) | Indicators for Problematic Hydric Soils ³ : 149B)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) 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) Nesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) |
| dric Soil Indicators:Indicators for Problematic HydricHistosol (A1)Polyvalue Below Surface (S8) (LRR R, MLRA 149B)2 cm Muck (A10) (LRR K, L, MLLHistic Epipedon (A2)Thin Dark Surface (S9) (LRR R, MLRA 149B)2 cm Muck (A10) (LRR K, L, MLLBlack Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L)5 cm Mucky Peat or Peat (S3) (Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2)5 cm Mucky Peat or Peat (S3) (Stratified Layers (A5)Depleted Matrix (F3)Polyvalue Below Surface (S7) (LRR K, L)Depleted Below Dark Surface (A11)Redox Dark Surface (F6)Nin Dark Surface (S9) (LRR K, L)Think Dark Surface (A12)Depleted Dark Surface (F7)Iron-Manganese Masses (F12)Sandy Mucky Mineral (S1)Redox Depressions (F8)Nesic Spodic (TA6) (MLRA 1448)Sandy Redox (S5)Ntraterial (F21)Very Shallow Dark Surface (TFDark Surface (S7) (LRR R, MLRA 149B)Other (Explain in Remarks)dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic | Indicators for Problematic Hydric Soils ³ : 149B)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) 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) Nesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) |
| dric Soil Indicators:Indicators for Problematic HydricHistosol (A1)Polyvalue Below Surface (S8) (LRR R, MLRA 149B)2 cm Muck (A10) (LRR K, L, MLLHistic Epipedon (A2)Thin Dark Surface (S9) (LRR R, MLRA 149B)2 cm Muck (A10) (LRR K, L, MLLBlack Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L)5 cm Mucky Peat or Peat (S3) (Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2)5 cm Mucky Peat or Peat (S3) (Stratified Layers (A5)Depleted Matrix (F3)Polyvalue Below Surface (S7) (LRR K, L)Depleted Below Dark Surface (A11)Redox Dark Surface (F6)Nin Dark Surface (S9) (LRR K, L)Thick Dark Surface (A12)Depleted Dark Surface (F7)Iron-Manganese Masses (F12)Sandy Mucky Mineral (S1)Redox Depressions (F8)Nesic Spodic (TA6) (MLRA 144, Mesic Spodic (TA6) (MLRA 144, Red Parent Material (F21)Sandy Redox (S5)Ntrafece (S7) (LRR R, MLRA 149B)Other (Explain in Remarks)Jicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.Other (Explain in Remarks) | Indicators for Problematic Hydric Soils ³ : 149B)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) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Nesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) |
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| ric Soil Indicators: Indicators for Problematic Hydric Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Fhick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144B) Stripped Matrix (S6) Wery Shallow Dark Surface (TF) Dark Surface (S7) (LRR R, MLRA 149B) Wery Shallow Dark Surface (TF) Stripped Matrix (S6) Other (Explain in Remarks) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) | 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) 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) |
| ric Soil Indicators: Indicators for Problematic Hydric Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Fhick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144B) Stripped Matrix (S6) Wery Shallow Dark Surface (TF) Dark Surface (S7) (LRR R, MLRA 149B) Wery Shallow Dark Surface (TF) Stripped Matrix (S6) Other (Explain in Remarks) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) | 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) 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) |
| ric Soil Indicators: Indicators for Problematic Hydric Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Fhick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144B) Stripped Matrix (S6) Wery Shallow Dark Surface (TF) Dark Surface (S7) (LRR R, MLRA 149B) Wery Shallow Dark Surface (TF) Stripped Matrix (S6) Other (Explain in Remarks) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) | 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) 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) |
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| ric Soil Indicators: Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144B) Stripped Matrix (S6) Wery Shallow Dark Surface (TF) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. | 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) 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) |
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| Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) | Dark Surface (S7) (LRR K, L) 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) |
| Stratified Layers (A5) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Polyvalue Below Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F12) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 1444, Red Parent Material (F21)) Stripped Matrix (S6) Very Shallow Dark Surface (TF Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Polyvalue Below Surface (TF | 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) |
| Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Polyvalue Below Surface (S6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Polyvalue Below Surface (S7) Sandy Redox (S5) Polyvalue Below Surface (F7) Stripped Matrix (S6) Nesic Spodic (TA6) (MLRA 144, Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) licators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. | 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) |
| Thick Dark Surface (A12) | 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) |
| Sandy Mucky Mineral (S1) | 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) |
| Sandy Gleyed Matrix (S4) | Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) |
| Sandy Redox (S5) | Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) |
| Stripped Matrix (S6) Red Parent Material (P21) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. | Very Shallow Dark Surface (TF12) Other (Explain in Remarks) |
| Dark Surface (S7) (LRR R, MLRA 149B) | Other (Explain in Remarks) |
| dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. | • |
| | disturbed or problematic. |
| trictive Laver (if obcorved): | |
| | |
| Type:None Hydric Soil Present? YesNo _∠ | sent? Yes No 🖌 |
| Depth (inches): | |

Vegetation Photos



Soil Photos





| Project/Site: Garnet | City/County: | Weedsport, Cayuga | Sampling Date | 2020-June-17 | | | | | |
|---|-------------------------|----------------------------------|-------------------------|-----------------|--|--|--|--|--|
| Applicant/Owner: NextEra | | State: NY | Sampling Point: | W-NSD-01; UPL-2 | | | | | |
| Investigator(s): Nick DeJohn, | ge: | | | | | | | | |
| Landform (hillslope, terrace, etc | .): Hillslope | Local relief (concave, convex, ı | none): Convex | Slope (%): 1-10 | | | | | |
| Subregion (LRR or MLRA): | LRR L | Lat: 43.1175674592 | Long: -76.602415843 | Datum: WGS84 | | | | | |
| Soil Map Unit Name: Ontario Honeoye, and Lansing soils, 20 to 35 percent slopes NWI classification: | | | | | | | | | |
| Are climatic/hydrologic conditions on the site typical for this time of year? Yes 🗸 No (If no, explain in Remarks.) | | | | | | | | | |
| Are Vegetation, Soil | or Hydrology significan | tly disturbed? Are "Normal Ci | rcumstances" present? | Yes 🟒 No | | | | | |
| Are Vegetation, Soil | or Hydrology naturally | problematic? (If needed, exp | lain any answers in Rem | narks.) | | | | | |

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

| Hydrophytic Vegetation Present? | Yes No 🟒 | | |
|---|-------------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes No 🟒 | Is the Sampled Area within a Wetland? | Yes No 🟒 |
| Wetland Hydrology Present? | Yes No _ | If yes, optional Wetland Site ID: | |
| Remarks: (Explain alternative procedure | es here or in a separate repo | rt) | |
| | | | |
| | | | |
| TRC covertype is UPL. | | | |
| | | | |
| | | | |
| | | | |

| Wetland Hydrology Indicators: | | | | | |
|---|------------|-----------------------------------|-------------------------------|--|--|
| Primary Indicators (minimum of or | e is requi | red; check all | <u>l that apply)</u> | | Secondary Indicators (minimum of two required) |
| 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 Ima Sparsely Vegetated Concave Su | 0,,,, | Prese Recer Thin I Other | oots (C3) ls (C6) | 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 🟒 | Depth (inches): | | Wetland Hydrology Present? Yes No _ |
| Saturation Present? | Yes | No 🖌 | Depth (inches): | | - |
| (includes capillary fringe) | | | | | - |
| Describe Recorded Data (stream g | auge, mon | litoring well, | aerial photos, previous inspe | ctions), if | available: |
| | | | | | |

Sampling Point: W-NSD-01; UPL-2

| ree Stratum (Plot size: <u>30 ft</u>) | | Dominant Species? | Indicator Status | Dominance Test worksheet: Number of Dominant Species That | t O | (A) |
|---|----|----------------------|---------------------|--|---------------|------------|
| Acer saccharum | 75 | Yes | FACU | Are OBL, FACW, or FAC: | | (~) |
| Prunus serotina | 20 | Yes | FACU | Total Number of Dominant Specie Across All Strata: | s 4 | (B) |
| | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: | 0 | (A/B) |
| | | | | Prevalence Index worksheet: | | |
| i | | | | - Total % Cover of: | Multiply | Bv: |
| | | | | - OBL species 0 | x 1 = | 0 |
| | 95 | = Total Cov | er | FACW species 0 | x 2 = | 0 |
| apling/Shrub Stratum (Plot size: <u>15 ft</u>) | | | | FAC species 15 | x 3 = | 45 |
| | | | | - FACU species 168 | x 4 = | 672 |
| | | | | - UPL species 8 | - x 5 = | 40 |
| | | | | - Column Totals 191 | (A) | 757 (B) |
| · | | | | Prevalence Index = B/A = | | 757 (D |
| | | | | Hydrophytic Vegetation Indicators | | |
| | | | | - 1- Rapid Test for Hydrophytic | | h |
| · | | | | 2 - Dominance Test is > 50% | | |
| | 0 | = Total Cov | er | $3 - Prevalence Index is \le 3.0^{10}$ | | |
| l <u>erb Stratum</u> (Plot size: <u>5 ft</u>) | | | | 4 - Morphological Adaptation | | sunnortin |
| . Rubus allegheniensis | 40 | Yes | FACU | - data in Remarks or on a separate | | supportin |
| . Parthenocissus quinquefolia | 33 | Yes | FACU | Problematic Hydrophytic Veg | | xplain) |
| . Toxicodendron radicans | 15 | No | FAC | - ¹ Indicators of hydric soil and wetla | | |
| . Fragaria vesca | 8 | No | UPL | present, unless disturbed or probl | 5 | .8) |
| | | | | Definitions of Vegetation Strata: | | |
| | | | | Tree – Woody plants 3 in. (7.6 cm) | or more in | diameter a |
| | | | | breast height (DBH), regardless of | height. | |
| 3. | | | | Sapling/shrub – Woody plants less | than 3 in. | DBH and |
| | | | | greater than or equal to 3.28 ft (1 | m) tall. | |
| 0 | | | | Herb – All herbaceous (non-woody | /) plants, re | gardless o |
| 1 | | | | size, and woody plants less than 3 | | |
| 2. | | | | Woody vines – All woody vines gre | ater than 3 | 8.28 ft in |
| | | = Total Cov | er | height. | | |
| <u>Voody Vine Stratum (</u> Plot size: <u>30 ft</u>) | | - | | Hydrophytic Vegetation Present? | Yes I | No 🟒 |
| | | | | | | |
| | | | | - | | |
| | · | | | - | | |
| · | | <u> </u> | | - | | |
| ·· | 0 | = Total Cov | er | - | | |
| | | - | | | | |

|) - 8 | 10YR 4/3 | <u>100</u> | | <u>%</u> | <u>Type</u> 1 | | Silt Loam | |
|---|---------------------------|------------|--------------------------------|--------------|---------------|--------------|---------------------------|--|
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| <u> </u> | | | | — | | | | |
| pe: C = Co | ncentration, D = [| Depletion | , RM = Reduced | Matr | ix, MS = | Masked Sar | d Grains. ² Lo | ocation: PL = Pore Lining, M = Matrix. |
| lric Soil In | dicators: | | | | | | | Indicators for Problematic Hydric Soils ³ : |
| Histosol (Histic Eni | A1) pedon (A2) | - | Polyvalue Bel Thin Dark Sur | | | | | 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| Black His | | - | Loamy Mucky | | | | 50) | Coast Prairie Redox (A16) (LRR K, L, R) |
| | n Sulfide (A4) | | Loamy Gleyed | | | | | 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| | Layers (A5) | | Depleted Mat | | | | | Dark Surface (S7) (LRR K, L) |
| | Below Dark Surfa | | | | | | | Polyvalue Below Surface (S8) (LRR K, L) |
| Thick Dar | k Surface (A12) | | Depleted Dar | k Sur | face (F7) | | | Thin Dark Surface (S9) (LRR K, L) |
| Sandy Mu | ucky Mineral (S1) | | Redox Depres | | | | | Iron-Manganese Masses (F12) (LRR K, L, R) |
| - | eyed Matrix (S4) | - | _ ' | | | | | Piedmont Floodplain Soils (F19) (MLRA 149B) |
| Sandy Re | - | | | | | | | Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| - | Matrix (S6) | | | | | | | Red Parent Material (F21) |
| | ace (S7) (LRR R, M | LRA 149 | 3) | | | | | Very Shallow Dark Surface (TF12) Other (Explain in Remarks) |
| licators o | f hydrophytic vege | etation a | nd wetland hydr | ology | / must be | e present, u | nless disturbed | • |
| trictive La | yer (if observed): | | | | | | | |
| Т | ype: | | None | | | Hydric Soil | Present? | Yes No⁄_ |
| C | epth (inches): | | | | | | | |
| narks: able to dig | g past 8 inches due | e to root: | s on steep slope | | | | | |

Vegetation Photos

Soil Photos







| Project/Site: Garnet | | | City/County: Weedsp | ort, Cay | uga | | Sampling Date: | 2020-June-17 |
|-------------------------|---------------|----------------------|---|-----------|-------------------|----------|---------------------------------------|--------------------|
| Applicant/Owner: N | extEra | | | | State: NY | | Sampling Point: | W-NSD-02; PEM-2 |
| Investigator(s): Nick | DeJohn, Bridg | ette Rooney | | Sect | ion, Township, Ra | ange: | | |
| Landform (hillslope, te | rrace, etc.): | Тое | Loc | al relief | (concave, convex | , none): | Concave | Slope (%): 2-5 |
| Subregion (LRR or MLR | A): LRR I | - | | Lat: | 43.117937604 | Long: | -76.603093939 | Datum: WGS84 |
| Soil Map Unit Name: | Hilton loam, | 3 to 8 percent slo | opes | | | | NWI classifi | cation: |
| Are climatic/hydrologic | conditions or | n the site typical f | for this time of year? | | Yes 🟒 No 🔄 | (If no | o, explain in Rema | irks.) |
| 0 | | , 0, | significantly disturl naturally problema | | | | tances" present? ny answers in Rem | Yes 🟒 No arks.) |

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

| Hydrophytic Vegetation Present? | Yes 🟒 No | | |
|---|----------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes 🟒 No | Is the Sampled Area within a Wetland? | Yes 🟒 No |
| Wetland Hydrology Present? | Yes 🟒 No | If yes, optional Wetland Site ID: | W-NSD-02 |
| Remarks: (Explain alternative procedures he | re or in a separate report |) | |
| | | | |
| | | | |
| TRC covertype is PEM. | | | |
| The covertype is relivi. | | | |
| | | | |
| | | | |

| Wetland Hydrology Indicators | : | | | |
|---|--|---|---------|--|
| Primary Indicators (minimum | of one is required; check all | that apply) | | Secondary Indicators (minimum of two required) |
| 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 Aeria Sparsely Vegetated Concardiant | Aqua Marl I Hydro Oxidi: Prese Recer Thin I al Imagery (B7) Other | r-Stained Leaves (B9) tic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) zed Rhizospheres on Living Root ence of Reduced Iron (C4) nt Iron Reduction in Tilled Soils (C Muck Surface (C7) • (Explain in Remarks) | | 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 | Depth (inches): | 8 | Wetland Hydrology Present? Yes No |
| Saturation Present? | Yes 🟒 No | Depth (inches): | 1 | |
| (includes capillary fringe) | | | | |
| Describe Recorded Data (stre | am gauge, monitoring well, | aerial photos, previous inspectio | ns), if | available: |

Sampling Point: W-NSD-02; PEM-2

| <u>Free Stratum</u> (Plot size: <u>30 ft</u>) | | Dominant | | Dominance Test worksheet: | | |
|--|---------|-------------|--------|--|-----------------|-------------|
| | % Cover | Species? | Status | Number of Dominant Species That Are OBL, FACW, or FAC: | ^{it} 3 | (A) |
| | | | | Total Number of Dominant Specie | | |
| | | <u> </u> | | Across All Strata: | 3 | (B) |
| | | | | Percent of Dominant Species Tha | t 100 | (A (D) |
| ł 5. | | | | Are OBL, FACW, or FAC: | 100 | (A/B) |
| · · · · · · · · · · · · · · · · · · · | | | | Prevalence Index worksheet: | | |
| | | | | - <u>Total % Cover of:</u> | <u>Multiply</u> | <u>By:</u> |
| · | 0 | = Total Cov | or | - OBL species 43 | x 1 = | 43 |
| anling/Chrub Stratum (Plot size: 15 ft) | 0 | _ 10tai C0v | ei | FACW species 63 | x 2 = | 126 |
| apling/Shrub Stratum (Plot size: <u>15 ft</u>) | 10 | Vac | | FAC species 10 | x 3 = | 30 |
| . Lindera benzoin | 10 | Yes | FACW | – FACU species 5 | x 4 = | 20 |
| · | | | | – UPL species 0 | x 5 = | 0 |
| · | | | | - Column Totals 121 | (A) | 219 (B) |
| · | | <u> </u> | | Prevalence Index = B/A | = <u>1.8</u> | |
| · | | | | Hydrophytic Vegetation Indicators | 5: | |
| · | | | | 1- Rapid Test for Hydrophyti | c Vegetation | |
| · | | - Total Cau | | 2 - Dominance Test is >50% | | |
| Luck Structure (Distribute - 5 ft) | 10 | = Total Cov | er | \checkmark 3 - Prevalence Index is ≤ 3.0 | 1 | |
| lerb Stratum (Plot size: <u>5 ft</u>) | 22 | Vee | | 4 - Morphological Adaptation | ns¹ (Provide | supporting |
| . Onoclea sensibilis | | Yes | FACW | – data in Remarks or on a separate | sheet) | |
| . Sparganium americanum | 25 | Yes | OBL | Problematic Hydrophytic Ve | | |
| . Impatiens capensis | 20 | No | FACW | ¹Indicators of hydric soil and wetlet | - | gy must b |
| . <u>Carex vulpinoidea</u> | | No | OBL | _ present, unless disturbed or prob | lematic | |
| . Equisetum arvense | 10 | No | FAC | _ Definitions of Vegetation Strata: | | |
| . Rosa multiflora | 5 | No | FACU | Tree – Woody plants 3 in. (7.6 cm) | | diameter a |
| | | | | breast height (DBH), regardless of | - | |
| | | | | Sapling/shrub - Woody plants less | | DBH and |
| | | | | greater than or equal to 3.28 ft (1 | | tordlass of |
| 0 | | | | Herb – All herbaceous (non-wood size, and woody plants less than 3 | | gai uless o |
| 1 | | | | - Woody vines – All woody vines gro | | 28 ft in |
| 2 | | | | height. | | 201011 |
| | 111 | = Total Cov | er | Hydrophytic Vegetation Present? | Voc / N | |
| <u>Voody Vine Stratum</u> (Plot size: <u>30 ft</u>) | | | | Hydrophytic vegetation Present? | | 10 |
| · | | | | _ | | |
| | | | | - | | |
| | | | | _ | | |
| 1 | | | | _ | | |
| | 0 | = Total Cov | er | | | |

| | - | to the | - | | | indicator or confi | rm the absence of indica | tors.) |
|--------------------------|-----------------------------|----------|-------------------|-------|-------------------|--------------------|--------------------------------------|---|
| Depth | Matrix | | Redo | x Fea | tures | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0 - 14 | 10YR 3/1 | 95 | 2.5YR 2.5/4 | 5 | С | M/PL | Silty Clay Loam | |
| | | | | | | | | |
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| ¹ Type: C = C | oncentration, D = | Deplet | ion, RM = Reduce | d Ma | trix, MS = | Masked Sand Gr | ains. ² Location: PL = Po | re Lining, M = Matrix. |
| Hydric Soil | | , | - | | | | | Problematic Hydric Soils ³ : |
| Histosol | | | Polyvalue B | elow | Surface (| S8) (LRR R, MLRA | 1.400) | , |
| | oipedon (A2) | | • | | | R R, MLRA 149B) | | (A10) (LRR K, L, MLRA 149B) |
| Black Hi | | | Loamy Muc | | | | | rie Redox (A16) (LRR K, L, R) |
| | en Sulfide (A4) | | Loamy Gley | - | | /(=, =) | | y Peat or Peat (S3) (LRR K, L, R) |
| | d Layers (A5) | | Depleted M | | | | | ce (S7) (LRR K, L) |
| | d Below Dark Surfa | ace (A1 | | | | | | Below Surface (S8) (LRR K, L) |
| | ark Surface (A12) | | Depleted Da | | | 7) | | Surface (S9) (LRR K, L) |
| | lucky Mineral (S1) | | Redox Depr | | | / | Iron-Mang | anese Masses (F12) (LRR K, L, R) |
| , | leyed Matrix (S4) | | | COOR | , iio (i o) | | Piedmont | Floodplain Soils (F19) (MLRA 149B) |
| - | - | | | | | | Mesic Spoo | dic (TA6) (MLRA 144A, 145, 149B) |
| - | edox (S5) | | | | | | Red Paren | t Material (F21) |
| | Matrix (S6) | | | | | | Very Shallo | ow Dark Surface (TF12) |
| Dark Su | rface (S7) (LRR R, N | /LRA 1 | 49B) | | | | Other (Exp | lain in Remarks) |
| ³ Indicators | of hydrophytic veg | etatior | n and wetland hyd | drolo | gy must k | oe present, unless | disturbed or problemati | с. |
| Restrictive I | ayer (if observed) | : | | | | | | |
| | Type: | | None | | | Hydric Soil Prese | ent? | Yes 🟒 No |
| | Depth (inches): | | | - | | , | | |
| Remarks: | | | | | | | | |
| Remarks. | | | | | | | | |
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| Unable to d | ig past 14 inches o | lua to i | rocks | | | | | |
| | ig past 14 inches t | | OCKS | | | | | |
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Vegetation Photos



Soil Photos





| Project/Site: Garnet | City/County: Weedsport, Cayuga | Sampling Date: 2020-June-17 |
|--|---|--|
| Applicant/Owner: NextEra | State: NY | Sampling Point: W-NSD-02; PFO-1 |
| Investigator(s): Nick DeJohn, Bridgette Rooney | Section, Township, Range: | |
| Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): | Concave Slope (%): 0-1 |
| Subregion (LRR or MLRA): LRR L | Lat: 43.1164928992 Long: | -76.6040703469 Datum: WGS84 |
| Soil Map Unit Name: Hilton loam, 3 to 8 percent s | lopes | NWI classification: |
| Are climatic/hydrologic conditions on the site typical | for this time of year? Yes _ Ves _ No (If no | ס, explain in Remarks.) |
| | significantly disturbed? Are "Normal Circums naturally problematic? (If needed, explain an | tances" present? Yes _✔ No y answers in Remarks.) |

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

| Hydrophytic Vegetation Present? | Yes 🟒 No | | |
|---|----------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes 🟒 No | Is the Sampled Area within a Wetland? | Yes 🟒 No |
| Wetland Hydrology Present? | Yes 🟒 No | If yes, optional Wetland Site ID: | W-NSD-02 |
| Remarks: (Explain alternative procedures he | re or in a separate report |) | |
| | | | |
| | | | |
| TRC covertype is PFO. | | | |
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| Wetland Hydrology Indicators | : | | | |
|------------------------------|-------------------------------|------------------------------------|-----------|--|
| Primary Indicators (minimum | of one is required; check all | that apply) | | 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 | Depth (inches): | 3 | Wetland Hydrology Present? Yes No |
| Saturation Present? | Yes 🟒 No | Depth (inches): | 0 | |
| (includes capillary fringe) | | | | |
| Describe Recorded Data (stre | am gauge, monitoring well, | aerial photos, previous inspection | ns), if a | available: |

Sampling Point: W-NSD-02; PFO-1

| <u>Tree Stratum</u> (Plot size: <u>30 ft</u>) | | Dominant Species? | Indicator Status | Dominance Test worksheet: Number of Dominant Species That | 4 | (A) |
|--|----|--|---------------------|--|-------------------------|------------|
| . Acer rubrum | 30 | Yes | FAC | Are OBL, FACW, or FAC: | | (A) |
| 2. Ulmus americana | 8 | 8 Yes FACW Total Number of D Across All Strata: | | Total Number of Dominant Species | Dominant Species 4 | |
| 3 4 | | | | Percent of Dominant Species That | 100 | (A/B) |
| 5 | | | | Are OBL, FACW, or FAC: | | |
| 6. | | | | Prevalence Index worksheet: | | _ |
| 7. | | | | - <u>Total % Cover of:</u> | Multiply E | |
| | | = Total Cov | er | OBL species 0 | x 1 = | 0 |
| Sapling/Shrub Stratum (Plot size: <u>15 ft</u>) | | - | | FACW species 26 | x 2 = | 52 |
| l. | | | | FAC species <u>30</u> | x 3 = | 90 |
| · · · · · · · · · · · · · · · · · · · | | | | FACU species 0 | x 4 = | 0 |
| 3. | | | | UPL species 0 | x 5 = | 0 |
| 4. | | | | Column Totals 56 | (A) | 142 (B) |
| | | | | Prevalence Index = B/A = | 2.5 | |
| | | | | Hydrophytic Vegetation Indicators: | | |
| 6 | | | | 1- Rapid Test for Hydrophytic | Vegetation | |
| 7 | | | | 2 - Dominance Test is >50% | 0 | |
| | 0 | = Total Cov | er | \checkmark 3 - Prevalence Index is $\leq 3.0^{1}$ | | |
| <u>Herb Stratum</u> (Plot size: <u>5 ft</u>) | | | | 4 - Morphological Adaptations | ¹ (Provide s | supporting |
| . Onoclea sensibilis | 10 | Yes | FACW | data in Remarks or on a separate sl | | |
| 2. Impatiens capensis | 8 | Yes | FACW | Problematic Hydrophytic Vege | | plain) |
| 3 | | | | ¹ Indicators of hydric soil and wetlan | | |
| 4. | | | | present, unless disturbed or proble | , . | |
| 5. | | | | Definitions of Vegetation Strata: | | |
| 6. | | | | Tree – Woody plants 3 in. (7.6 cm) o | r more in d | liameter a |
| 7. | | | | breast height (DBH), regardless of h | | |
| 8. | | | | Sapling/shrub – Woody plants less t | - | BH and |
| 9. | | | | greater than or equal to 3.28 ft (1 m | | |
| 10. | | | | Herb – All herbaceous (non-woody) | | ardless of |
| | | | | size, and woody plants less than 3.2 | 1 0 | |
| 11 | | | | Woody vines – All woody vines grea | | 28 ft in |
| 12 | | | | height. | | |
| | 18 | = Total Cov | er | Hydrophytic Vegetation Present? | Yes ./ N | 0 |
| <u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>) | | | | nyarophytic vegetation resent. | 105 <u>v</u> 11 | ° |
| 1 | | | | - | | |
| 2 | | | | - | | |
| 3 | | | | - | | |
| 4 | | | | . | | |
| | 0 | = Total Cov | er | | | |

| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Text | ure | Remarks |
|--|---|----------|---|-----------------|-----------------------------|------------------|------------------------|--|---|
| 0 - 4 | 10YR 2/1 | 100 | | | | | Silt L | oam | |
| 4 - 20 | 5YR 4/1 | 98 | 10YR 5/6 | 2 | C | M | Silty Cla | y Loam | |
| · | | · | | · | | | | | |
| · | | · | | · | | | | | |
| | | · | | · | | | | | |
| | | Depletio | n, RM = Reduced | Mat | rix, MS = | Masked Sand | Grains. ² L | | e Lining, M = Matrix. |
| ydric Soil I Histosol | | | Polyvalue Bel | _ | | | | Indicators for P | Problematic Hydric Soils ³ : |
| Stratified | n Sulfide (A4) d Layers (A5) | | Loamy Mucky Loamy Gleye Depleted Ma Redox Dark S | d Ma trix (l | trix (F2) F3) ce (F6) | | | Dark Surfac | / Peat or Peat (S3) (LRR K, L, R) ee (S7) (LRR K, L) ielow Surface (S8) (LRR K, L) |
| Sandy M Sandy G Sandy R Stripped | rk Surface (A12) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, M | | Depleted Dar Redox Depre P B) | | | | | Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallov | nese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) |
| Sandy M Sandy G Sandy R Stripped Dark Sur | rk Surface (A12) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) | LRA 149 | Redox Depre | ssior | ns (F8) | | ess disturbe | Iron-Manga Piedmont Fi Mesic Spod Red Parent Very Shallov Other (Expla | inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks) |
| Sandy M Sandy G Sandy R Stripped Dark Sur ndicators c | rk Surface (A12) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, M | LRA 149 | Redox Depre | ssior | ns (F8) | | ess disturbe | Iron-Manga Piedmont Fi Mesic Spod Red Parent Very Shallov Other (Expla | inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks) |
| Sandy M Sandy G Sandy R Stripped Dark Sun ndicators c estrictive L | rk Surface (A12) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, M | LRA 149 | Redox Depre | ssior | ns (F8) | | | Iron-Manga Piedmont F Mesic Spodi Red Parent Very Shallov Other (Expla ed or problematic | inese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks) |
| Sandy M Sandy G Sandy R Stripped Dark Sun ndicators c estrictive L | rk Surface (A12) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, M of hydrophytic vege ayer (if observed): | LRA 149 | Redox Depre | ssior | ns (F8) | e present, un | | Iron-Manga Piedmont F Mesic Spodi Red Parent Very Shallov Other (Expla ed or problematic | nese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks) |

Hydrology Photos



Vegetation Photos

Soil Photos







| Project/Site: Garnet | | (| City/County: Wee | dsport, Cay | uga | | Sampling Date: | 2020-June-17 |
|---------------------------|----------------|--------------------|--------------------------------------|--------------|-------------------|----------|---------------------------------------|-----------------|
| Applicant/Owner: Nex | xtEra | | | | State: NY | | Sampling Point: | W-NSD-02; UPL-1 |
| Investigator(s): Nick D | DeJohn, Bridge | ette Rooney | | Sect | ion, Township, Ra | nge: | | |
| Landform (hillslope, terr | race, etc.): | Toe slope | | Local relief | (concave, convex, | , none): | Convex | Slope (%): 1-10 |
| Subregion (LRR or MLRA | A): LRR L | | | Lat: | 43.1164779375 | Long: | -76.6036700272 | Datum: WGS84 |
| Soil Map Unit Name: | Hilton loam, | 3 to 8 percent slo | opes | | | | NWI classifi | cation: |
| Are climatic/hydrologic o | conditions on | the site typical f | for this time of yea | ar? | Yes 🟒 No 🔄 | (If no | o, explain in Rema | arks.) |
| 0 | | | significantly dis naturally probl | | | | tances" present? ny answers in Rem | |

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

| Hydrophytic Vegetation Present? | Yes No 🟒 | | |
|---|-------------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes No 🟒 | Is the Sampled Area within a Wetland? | Yes No 🟒 |
| Wetland Hydrology Present? | Yes No 🟒 | If yes, optional Wetland Site ID: | |
| Remarks: (Explain alternative procedure | es here or in a separate repo | rt) | |
| | | | |
| | | | |
| TRC covertype is UPL. | | | |
| The covertype is of L. | | | |
| | | | |
| | | | |

| Wetland Hydrology Indicators: | | | | | | | |
|--|---|-------------------|--|-----------------------------------|--|--|--|
| Primary Indicators (minimum of on | Primary Indicators (minimum of one is required; check all that apply) | | | | | | |
| Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) | | | 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 I | No 🟒 | Depth (inches): | | | | |
| Water Table Present? | Yes I | No 🔽 | Depth (inches): | Wetland Hydrology Present? Yes No | | | |
| Saturation Present? | Yes I | No 🟒 | Depth (inches): | | | | |
| (includes capillary fringe) | | | | | | | |
| Describe Recorded Data (stream ga | auge, monit | oring well, aeria | al photos, previous inspections) | if available: | | | |
| | | | | | | | |

Sampling Point: W-NSD-02; UPL-1

| ree Stratum (Plot size: <u>30 ft</u>) | | Dominant Species? | Indicator Status | Dominance Test worksheet: Number of Dominant Species That | 1 | (A) |
|--|----|----------------------|---------------------|---|-----------------|-----------|
| . Acer saccharum | 60 | Yes | FACU | Are OBL, FACW, or FAC: | | (A) |
| Prunus serotina | 30 | Yes | FACU | Total Number of Dominant Species Across All Strata: | 5 | (B) |
| 8 | | · | | Percent of Dominant Species That Are OBL, FACW, or FAC: | 20 | (A/B |
| | | | | Prevalence Index worksheet: | | |
| 5 | | | | - Total % Cover of: | <u>Multiply</u> | Bv: |
| 7 | | | | - OBL species 0 | x 1 = | 0 |
| | 90 | = Total Cov | er | FACW species 0 | x 2 = | 0 |
| Sapling/Shrub Stratum (Plot size: <u>15 ft</u>) | | | | FAC species 25 | x 3 = | 75 |
| . Acer saccharum | 12 | Yes | FACU | - FACU species 147 | x 4 = | 588 |
| 2 | | | | - UPL species 0 | x 5 = | 0 |
| 3 | | | | - Column Totals 172 | (A) – | 663 (E |
| 4 | | | | Prevalence Index = B/A = | | 005 (L |
| 5 | | | | | | |
| 5 | | | | Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic | Vegetation | |
| 7 | | | | 2 - Dominance Test is > 50% | vegetation | |
| | 12 | = Total Cov | er | $3 - Prevalence Index is \le 3.0^{1}$ | | |
| <u>Herb Stratum</u> (Plot size: <u>5 ft</u>) | | | | 4 - Morphological Adaptations | 1 (Provide | sunnortir |
| 1. Parthenocissus quinquefolia | 40 | Yes | FACU | - data in Remarks or on a separate s | | supporti |
| 2. Toxicodendron radicans | 25 | Yes | FAC | - Problematic Hydrophytic Vege | | nlain) |
| 3. Acer saccharum | 5 | No | FACU | Indicators of hydric soil and wetlar | | - |
| 4. | | | | present, unless disturbed or proble | | 5y muser |
| 5. | | | | Definitions of Vegetation Strata: | indic | |
| 6. | | | | Tree – Woody plants 3 in. (7.6 cm) o | r more in (| diameter |
| 7. | | | | breast height (DBH), regardless of h | | alameter |
| 3. | | <u> </u> | | Sapling/shrub – Woody plants less t | - |)BH and |
|). | | · | | greater than or equal to 3.28 ft (1 m | | 21. and |
| 10. | | <u> </u> | | Herb – All herbaceous (non-woody) | | ardless |
| | | | | size, and woody plants less than 3.2 | | 5 |
| 11 | | · | | Woody vines – All woody vines grea | | 28 ft in |
| 12 | | | | height. | | |
| | 70 | = Total Cov | er | Hydrophytic Vegetation Present? | Ves N | |
| <u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>) | | | | | ies i | <u> </u> |
| 1 | | · | | - | | |
| 2 | | | | - | | |
| 3 | | | | - | | |
| 4 | | | | - | | |
| | 0 | = Total Cov | er | | | |

| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Textu | re | Remarks |
|---|--|-------------------|-----------------------------|---|--|------------------|---------------------------|---|--|
| 0 - 17 | 10YR 3/4 | 100 | | | | | Sandy L | oam | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | Depletio | n, RM = Reduced | Mat | rix, MS = | Masked Sa | nd Grains. ² L | | ore Lining, M = Matrix. |
| iric Soil I Histosol | Indicators: | | Polyvalue Bel | _ | | | | Indicators fo | r Problematic Hydric Soils ³ : |
| Black Hi Hydroge Stratifie Deplete Thick Da Sandy M Sandy G Sandy R Sandy R | pipedon (A2) stic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surfa ark Surface (A12) Aucky Mineral (S1) ileyed Matrix (S4) tedox (S5) d Matrix (S6) rface (S7) (LRR R, M | ice (A11 <u>)</u> | Depleted Dar Redox Depre | / Mir d Ma trix (l Gurfa k Su | eral (F1) trix (F2) F3) ce (F6) rface (F7) | (LRR K, L) | 49B) | Coast Pra 5 cm Mu Dark Sur Polyvalue Thin Darl Iron-Mar Piedmon Mesic Sp Red Pare Very Sha | ck (A10) (LRR K, L, MLRA 149B) airie Redox (A16) (LRR K, L, R) cky Peat or Peat (S3) (LRR K, L, R) face (S7) (LRR K, L) e Below Surface (S8) (LRR K, L) k Surface (S9) (LRR K, L) ganese Masses (F12) (LRR K, L, R) t Floodplain Soils (F19) (MLRA 149B) odic (TA6) (MLRA 144A, 145, 149B) nt Material (F21) llow Dark Surface (TF12) splain in Remarks) |
| dicators | of hydrophytic veg | etation a | nd wetland hydr | olog | y must b | e present, i | inless disturbe | ed or problema | tic. |
| strictive l | _ayer (if observed): | | | | | | | | |
| | Type: Depth (inches): | | None | | | Hydric So | il Present? | | Yes No 🟒 |
| marks: | <u> </u> | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Vegetation Photos



Soil Photos





| Project/Site: Garnet | | C | ity/County: Weeds | sport, Cay | uga | | Sampling Date | : 2020-June-17 | |
|---------------------------------|-----------------|----------------------|--|-------------|-------------------|----------|---------------------------------------|-----------------|--|
| Applicant/Owner: N | lextEra | | | | State: NY | | Sampling Point: | W-NSD-02; UPL-2 | |
| Investigator(s): Nick | DeJohn, Bridge | ette Rooney | | Sect | ion, Township, Ra | inge: | | | |
| Landform (hillslope, te | rrace, etc.): | Hillslope | Lo | ocal relief | (concave, convex, | , none): | Convex | Slope (%): 2-5 | |
| Subregion (LRR or MLF | RA): LRR L | | | Lat: | 43.1177896215 | Long: | -76.6031979584 | Datum: WGS84 | |
| Soil Map Unit Name: | Hilton loam, | 3 to 8 percent slo | pes | | | | NWI classifi | cation: | |
| Are climatic/hydrologic | c conditions on | the site typical for | or this time of year | ? | Yes 🟒 No 🔄 | (If no | o, explain in Rema | arks.) | |
| Are Vegetation, Are Vegetation, | | , , | _ significantly distu _ naturally probler | | | | tances" present? ny answers in Rem | | |

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

| Hydrophytic Vegetation Present? | Yes No 🟒 | | |
|---|-------------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes No 🟒 | Is the Sampled Area within a Wetland? | Yes No 🟒 |
| Wetland Hydrology Present? | Yes 🟒 No | If yes, optional Wetland Site ID: | |
| Remarks: (Explain alternative procedure | es here or in a separate repo | rt) | |
| | | | |
| | | | |
| TRC covertype is UPL. | | | |
| | | | |
| | | | |
| | | | |

| Wetland Hydrology Indicators: | | | |
|--|---|--|--|
| Primary Indicators (minimum of | f one is required; check all t | that apply) | Secondary Indicators (minimum of two required) |
| 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 Sparsely Vegetated Concave | Aquati Marl D Hydro Oxidiz Preser Recent Thin M Imagery (B7) Other | -Stained Leaves (B9) ic Fauna (B13) Deposits (B15) gen Sulfide Odor (C1) red Rhizospheres on Living Roots (C3) nce of Reduced Iron (C4) t Iron Reduction in Tilled Soils (C6) Auck Surface (C7) (Explain in Remarks) | 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 🟒 | Depth (inches): | Wetland Hydrology Present? Yes No |
| Saturation Present? | Yes 🟒 No | Depth (inches): 4 | |
| (includes capillary fringe) | | | |
| Describe Recorded Data (stream | n gauge, monitoring well, a | aerial photos, previous inspections), if | available: |

Sampling Point: W-NSD-02; UPL-2

| Tr <u>ee Stratum</u> (Plot size: <u>30 ft</u>) | Absolute | Dominant | Indicator | Dominance Test worksheet: | | |
|---|----------|-------------|-----------|---|-----------------|--------------|
| | % Cover | Species? | Status | Number of Dominant Species Th Are OBL, FACW, or FAC: | at 0 | (A) |
| | | · | | Total Number of Dominant Spec | es | |
| · | | · | | Across All Strata: | 4 | (B) |
| · | | | | Percent of Dominant Species Tha | at 0 | (4.(D) |
| | | · | | Are OBL, FACW, or FAC: | 0 | (A/B) |
| | | · | | Prevalence Index worksheet: | | |
| | | · | | - <u>Total % Cover of:</u> | <u>Multiply</u> | <u>/ By:</u> |
| · | | | | OBL species 0 | x 1 = | 0 |
| | 0 | = Total Cov | er | FACW species 0 | x 2 = | 0 |
| apling/Shrub Stratum (Plot size: <u>15 ft</u>) | | | | FAC species 0 | x 3 = | 0 |
| . <u>Rosa multiflora</u> | 40 | Yes | FACU | FACU species 128 | x 4 = | 512 |
| · | | · | | UPL species 0 | x 5 = | 0 |
| | | | | Column Totals 128 | (A) | 512 (B) |
| | | | | Prevalence Index = B/A | 4 | |
| | | · | | Hydrophytic Vegetation Indicato | rs. | |
| | | <u> </u> | | 1- Rapid Test for Hydrophyt | | n |
| | | | | 2 - Dominance Test is > 50% | - | |
| | 40 | = Total Cov | er | $3 - Prevalence Index is \leq 3.$ | | |
| l <u>erb Stratum</u> (Plot size: <u>5 ft</u>) | | | | 4 - Morphological Adaptatio | | supportin |
| . Solidago altissima | 35 | Yes | FACU | - data in Remarks or on a separate | - | s oupporting |
| . Rosa multiflora | 20 | Yes | FACU | Problematic Hydrophytic V | | xplain) |
| . Rubus allegheniensis | 15 | No | FACU | ¹ Indicators of hydric soil and wet | - | |
| . Parthenocissus quinquefolia | 8 | No | FACU | present, unless disturbed or pro | 2 | 0, |
| | | | | Definitions of Vegetation Strata: | | |
| | | | | Tree – Woody plants 3 in. (7.6 cm |) or more in | diameter a |
| · | | | | breast height (DBH), regardless o | of height. | |
| | | | | Sapling/shrub – Woody plants les | ss than 3 in. | DBH and |
| | | | | greater than or equal to 3.28 ft (| 1 m) tall. | |
| 0 | | | | Herb – All herbaceous (non-woo | dy) plants, re | egardless of |
| 1 | | | | size, and woody plants less than | | |
| 2. | | · | | Woody vines – All woody vines g | reater than 3 | 3.28 ft in |
| | 78 | = Total Cov | er | height. | | |
| Voody Vine Stratum (Plot size: <u>30 ft</u>) | | | | Hydrophytic Vegetation Present | ? Yes | No 🟒 |
| . Parthenocissus quinquefolia | 10 | Yes | FACU | | | |
| | | | | - | | |
| | | · | | - | | |
| !. | | · | | - | | |
| r | | = Total Cov | or | - | | |
| | 10 | | CI | | | |

Sampling Point: W-NSD-02; UPL-2

| (inches) | Matrix | | | Features | | | |
|-------------------------|--|------------|------------------|---------------------|-------------------------------|----------------------------------|--|
| <u> </u> | Color (moist) | % | Color (moist) | % Type ¹ | Loc ² | exture | Remarks |
| 0 - 12 | 10YR 3/3 | 100 | | | Silty | Clay Loam | |
| | | | | | · | <u>.</u> | |
| <u> </u> | | | | | | | |
| | | | | | · · | | |
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| | | | | | · · | | |
| | | | | | · · | | |
| | | | | | | | |
| <u>.</u> | | | | | | | |
| ype: C = C | Concentration, D = | Depletic | n, RM = Reduced | Matrix, MS = | Masked Sand Grains. | ² Location: PL = Pore | Lining, M = Matrix. |
| | Indicators: | | | | | | roblematic Hydric Soils ³ : |
| Histosol | | | | | 58) (LRR R, MLRA 149B) | 2 cm Muck (| A10) (LRR K, L, MLRA 149B) |
| | pipedon (A2) | | | | R R, MLRA 149B) | Coast Prairie | e Redox (A16) (LRR K, L, R) |
| Black Hi | | | Loamy Mucky | | (LRR K, L) | 5 cm Mucky | Peat or Peat (S3) (LRR K, L, R) |
| | en Sulfide (A4) d Layers (A5) | | Loamy Gleyed | | | Dark Surface | e (S7) (LRR K, L) |
| | d Below Dark Surfa | ace (A11 | • | | | • | elow Surface (S8) (LRR K, L) |
| | ark Surface (A12) | | Depleted Dar | |) | | urface (S9) (LRR K, L) |
| | lucky Mineral (S1) | | Redox Depres | | | - | nese Masses (F12) (LRR K, L, R) |
| | Gleyed Matrix (S4) | | | . , | | | oodplain Soils (F19) (MLRA 149B) |
| - | Redox (S5) | | | | | | c (TA6) (MLRA 144A, 145, 149B) |
| | d Matrix (S6) | | | | | Red Parent I | |
| | rface (S7) (LRR R, N | MLRA 149 | ∋B) | | | Very Shallov Other (Expla | v Dark Surface (TF12) ain in Remarks) |
| | of hydrophytic yea | vetation a | and wetland hydr | ology must h | e present, unless distu | · | |
| ndicators | or nyaropnyac veg | | | ology must b | | roca or problematic. | |
| | Laver (if observed) | | | | Hydric Soil Present? | | Yes No 🟒 |
| estrictive L | L ayer (if observed) : Type: | | None | | , | | |
| estrictive L | Туре: | | None | - | | | |
| estrictive L | • | | None | - | | | |
| estrictive L | Туре: | | None | | | | |
| estrictive L | Туре: | | None | - | | | |
| estrictive L | Туре: | | None | | | | |
| estrictive L | Туре: | | None | | | | |
| estrictive L | Туре: | | None | | | | |
| estrictive L | Туре: | | None | | | | |
| estrictive L | Туре: | | None | | | | |
| estrictive L | Туре: | | None | | | | |
| estrictive L | Туре: | | None | | | | |
| estrictive L emarks: | Type: Depth (inches): | | | the slope | | | |
| estrictive L emarks: | Туре: | due to ro | | the slope | | | |
| estrictive L emarks: | Type: Depth (inches): | due to ro | | the slope | | | |
| estrictive L emarks: | Type: Depth (inches): | due to ro | | the slope | | | |
| estrictive L emarks: | Type: Depth (inches): | due to ro | | the slope | | | |
| estrictive L emarks: | Type: Depth (inches): | due to ro | | the slope | | | |
| estrictive L emarks: | Type: Depth (inches): | due to ro | | the slope | | | |

Soil Photos







| Project/Site: Garnet | | Ci | ity/County: Weedspo | rt, Cay | uga | Sampling Date: 2020-June-17 | | |
|-------------------------|-----------------|---------------------|-------------------------|----------|--------------------|-----------------------------|--------------------|-----------------|
| Applicant/Owner: N | lextEra | | | | State: NY | | Sampling Point: | W-NSD-03; PFO-1 |
| Investigator(s): Nick | DeJohn, Bridg | ette Rooney | | Sec | tion, Township, Ra | inge: | | |
| Landform (hillslope, te | rrace, etc.): | Depression | Loca | l relief | (concave, convex | , none): | Concave | Slope (%): 0-1 |
| Subregion (LRR or MLF | RA): LRR L | | | Lat: | 43.1141551445 | Long: | -76.6006216128 | Datum: WGS84 |
| Soil Map Unit Name: | Appleton and | d Lyons soils, 0 to | 3 percent slopes | | | | NWI classifi | cation: |
| Are climatic/hydrologie | c conditions on | the site typical fo | or this time of year? | | Yes 🟒 No 🔄 | (If n | o, explain in Rema | irks.) |
| Are Vegetation, | Soil, | or Hydrology | _ significantly disturb | ed? | Are "Normal (| Circums | tances" present? | Yes 🟒 No |
| Are Vegetation, | Soil, | or Hydrology | _ naturally problemat | ic? | (If needed, ex | plain ar | ny answers in Rem | arks.) |

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

| Hydrophytic Vegetation Present? | Yes 🟒 No | | |
|---|-----------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes 🟒 No | Is the Sampled Area within a Wetland? | Yes 🧹 No |
| Wetland Hydrology Present? | Yes 🟒 No | If yes, optional Wetland Site ID: | W-NSD-03 |
| Remarks: (Explain alternative procedures he | ere or in a separate report |) | |
| | | | |
| | | | |
| TRC covertype is PFO. | | | |
| The covertype is into. | | | |
| | | | |
| | | | |

| Wetland Hydrology Indicators: | : | | |
|--|---|---|---|
| Primary Indicators (minimum | of one is required; check all | that apply) | Secondary Indicators (minimum of two required) |
| 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 Aeria Sparsely Vegetated Concav | Aquati Marl E Hydro Oxidiz Preser Recen Thin M al Imagery (B7) Other | -Stained Leaves (B9) ic Fauna (B13) Deposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living Roots (C3) nce of Reduced Iron (C4) t Iron Reduction in Tilled Soils (C6) Auck Surface (C7) (Explain in Remarks) | 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 🟒 | Depth (inches): | Wetland Hydrology Present? Yes _ No |
| Saturation Present? | Yes 🟒 No | Depth (inches): 5 | |
| (includes capillary fringe) | | | |
| Describe Recorded Data (strea | am gauge, monitoring well, a | ierial photos, previous inspections), i | f available: |

Sampling Point: W-NSD-03; PFO-1

| Tree Stratum (Plot size: <u>30 ft</u>) | | Dominant Species? | Indicator Status | Dominance Test worksheet: Number of Dominant Species That | 5 | (• \ |
|--|----|----------------------|---------------------|--|--------------------------|------------|
| . Acer rubrum | 25 | Yes | FAC | Are OBL, FACW, or FAC: | 5 | (A) |
| 2. Acer saccharinum | 10 | Yes | FACW | Total Number of Dominant Species Across All Strata: | 5 | (B) |
| 3 | | | | Percent of Dominant Species That | 100 | (A (D) |
| 4 5. | | · | | Are OBL, FACW, or FAC: | | (A/B) |
| | | | | Prevalence Index worksheet: | | |
| | | | | Total % Cover of: | <u>Multiply B</u> | - |
| · | 35 | = Total Cov | or | OBL species <u>30</u> | x 1 = | 30 |
| Sapling/Shrub Stratum (Plot size: <u>15 ft</u>) | | - 10001 000 | CI | FACW species 75 | x 2 = | 150 |
| | | | | FAC species 25 | x 3 = | 75 |
| | | | | FACU species 0 | x 4 = | 0 |
| <u> </u> | | | | UPL species 0 | x 5 = | 0 |
| 3 | | | | Column Totals 130 | (A) | 255 (B) |
| ŀ | | | | Prevalence Index = B/A = | | |
| | | | | Hydrophytic Vegetation Indicators: | | |
| 7 | | | | 1- Rapid Test for Hydrophytic \ | /egetation | |
| | 0 | = Total Cov | or | 2 - Dominance Test is >50% | | |
| <u>lerb Stratum</u> (Plot size: <u>5 ft</u>) | 0 | - 10tai COV | CI | $_{4}$ 3 - Prevalence Index is ≤ 3.0 ¹ | | |
| . Onoclea sensibilis | 40 | Yes | FACW | 4 - Morphological Adaptations | 1 (Provide s | upporting |
| | | | | data in Remarks or on a separate sh | neet) | |
| 2. Leersia oryzoides | 30 | Yes | OBL | Problematic Hydrophytic Vege | tation ¹ (Exp | lain) |
| 3. Impatiens capensis | 25 | Yes | FACW | ¹ Indicators of hydric soil and wetlan | , 0. | / must be |
| 4 | | | | present, unless disturbed or proble | matic | |
| 5 | | | | Definitions of Vegetation Strata: | | |
| 5 | · | | | Tree – Woody plants 3 in. (7.6 cm) o | | ameter a |
| 7 | | | | breast height (DBH), regardless of h | | |
| 3 | | | | Sapling/shrub – Woody plants less t | | 3H and |
|) | | | | greater than or equal to 3.28 ft (1 m | | |
| 0 | | | | Herb – All herbaceous (non-woody) | | ardless of |
| 1 | | | | size, and woody plants less than 3.2 | | |
| 2. | | | | Woody vines – All woody vines grea | ter than 3.2 | 8 ft in |
| | 95 | = Total Cov | er | height. | | |
| <u>Noody Vine Stratum</u> (Plot size: <u>30 ft</u>) | | - | | Hydrophytic Vegetation Present? | Yes 🟒 No |) |
| 2. | | | | | | |
| 3. | | | | • | | |
| 4. | | | | • | | |
| т | 0 | = Total Cov | or | • | | |
| | 0 | - 10101 CUV | | | | |

| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Те | xture | Remarks |
|---|--|----------|----------------------------|-----------------------------------|---|------------------|------------|--|---|
| 0 - 4 | 5YR 3/2 | 98 | 7.5YR 4/6 | 2 | С | М | Silty C | lay Loam | |
| 4 - 18 | 5YR 3/2 | 95 | 7.5YR 4/6 | 5 | C | M | Silty C | lay Loam | |
| | | · · | | · | | | | | |
| | | · · | | - <u> </u> | | | | | |
| | | · · | | . <u>—</u> | | | | | |
| pe: C = C | oncentration, D = [| Depletio | on, RM = Reduced | Mat | rix, MS = | Masked Sand | Grains. | ² Location: PL = Pore | Lining, M = Matrix. |
| dric Soil I Histosol | ndicators: | | Polyvalue Be | | | | | Indicators for Pr | oblematic Hydric Soils ³ : |
| Stratified Depleted Thick Da Sandy M Sandy G Sandy R Stripped | stic (A3) n Sulfide (A4) l Layers (A5) l Below Dark Surfa rk Surface (A12) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR R, M | | Depleted Da Redox Depre | d Ma trix (l Surfa rk Su | trix (F2) F3) ce (F6) rface (F7) | | | 5 cm Mucky Dark Surface Polyvalue Be Thin Dark Su Iron-Mangar Piedmont Fl Mesic Spodio Red Parent N | elow Surface (S8) (LRR K, L) urface (S9) (LRR K, L) nese Masses (F12) (LRR K, L, R) oodplain Soils (F19) (MLRA 149B) c (TA6) (MLRA 144A, 145, 149B) Material (F21) v Dark Surface (TF12) |
| dicators o | of hydrophytic vege | etation | and wetland hyd | rolog | y must be | e present, un | ess distur | bed or problematic. | |
| | ayer (if observed): | | | | | | | | |
| strictive L | • | | None | | | Hydric Soil | Present? | | Yes 🟒 No |
| | Туре: | | | | | | | | |
| | - | | | | | | | | |



Soil Photos





| Project/Site: Garnet | | Ci | ity/County: Weedspor | rt, Cay | uga | | Sampling Date: | 2020-June-17 |
|-------------------------|-----------------|---------------------|--------------------------|----------|-------------------|----------|--------------------|-----------------|
| Applicant/Owner: N | lextEra | | | | State: NY | | Sampling Point: | W-NSD-03; UPL-1 |
| Investigator(s): Nick | DeJohn, Bridge | ette Rooney | | Sect | ion, Township, Ra | nge: | | |
| Landform (hillslope, te | rrace, etc.): | Hillslope | Local | l relief | (concave, convex, | , none): | Convex | Slope (%): 2-5 |
| Subregion (LRR or MLF | RA): LRR L | | | Lat: | 43.1142252172 | Long: | -76.6006216966 | Datum: WGS84 |
| Soil Map Unit Name: | Ontario fine | sandy loam, 8 to 1 | 15 percent slopes | | | | NWI classifi | cation: |
| Are climatic/hydrologie | c conditions on | the site typical fo | or this time of year? | | Yes 🟒 No 🔄 | (If n | o, explain in Rema | arks.) |
| Are Vegetation, | Soil, | or Hydrology | _ significantly disturbe | ed? | Are "Normal (| Circums | tances" present? | Yes 🟒 No |
| Are Vegetation, | Soil, | or Hydrology | _ naturally problemati | ic? | (If needed, ex | plain ar | ny answers in Rem | narks.) |

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

| Hydrophytic Vegetation Present? | Yes No 🟒 | | |
|--|----------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes No 🟒 | Is the Sampled Area within a Wetland? | Yes No 🟒 |
| Wetland Hydrology Present? | Yes No _ | If yes, optional Wetland Site ID: | |
| Remarks: (Explain alternative procedures | here or in a separate repo | rt) | |
| | | | |
| | | | |
| TRC covertype is UPL. | | | |
| | | | |
| | | | |
| | | | |

| Wetland Hydrology Indicators: | | | | | |
|-----------------------------------|------------|----------------|--|-------------|--|
| Primary Indicators (minimum of or | e is requi | red; check all | <u>l that apply)</u> | | 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 🟒 | Depth (inches): | | Wetland Hydrology Present? Yes No |
| Saturation Present? | Yes | No 🖌 | Depth (inches): | | - |
| (includes capillary fringe) | | | | | - |
| Describe Recorded Data (stream g | auge, mon | litoring well, | aerial photos, previous inspe | ctions), if | available: |
| | | | | | |

Sampling Point: W-NSD-03; UPL-1

| <u>Tree Stratum</u> (Plot size: <u>30 ft</u>) | | Dominant | Indicator | Dominance Test worksheet: | | |
|--|----|-------------|-----------|--|---------------------------|-----------------|
| | | Species? | Status | Number of Dominant Species Tha Are OBL, FACW, or FAC: | t 0 | (A) |
| | | | | Total Number of Dominant Specie | s 1 | (B) |
| · | | | | Percent of Dominant Species That | 0 | (A/B) |
| 5 | | | | Are OBL, FACW, or FAC: Prevalence Index worksheet: | | |
| j | | | | - <u>Total % Cover of:</u> | Multiply | Bur |
| | | | | - OBL species 0 | x 1 = | <u>ру.</u> О |
| | 0 | = Total Cov | er | FACW species 0 | x 2 = | 0 |
| apling/Shrub Stratum (Plot size: <u>15 ft</u>) | | _ | | FAC species 0 | | 0 |
| | | | | · · · · · | _ x 3 = _ | - |
| | | | | FACU species 0 | _ × 4 = | 0 |
| | | | | - UPL species <u>30</u> | x 5 = | 150 |
| | | · | | - Column Totals <u>30</u> | (A) | 150 (B) |
| | | | | Prevalence Index = B/A | = | |
| | | · | | Hydrophytic Vegetation Indicators | : | |
| | | · | | 1- Rapid Test for Hydrophytic | : Vegetatior | n |
| | 0 | = Total Cov | or. | 2 - Dominance Test is > 50% | | |
| | 0 | | er | 3 - Prevalence Index is $\leq 3.0^{\circ}$ | | |
| l <u>erb Stratum</u> (Plot size: <u>5 ft</u>) | 20 | | | 4 - Morphological Adaptatior | ns¹ (Provide | supporting |
| . Zea mays | 30 | Yes | UPL | data in Remarks or on a separate | sheet) | |
| <u> </u> | | | | Problematic Hydrophytic Veg | getation ¹ (Ex | (plain) |
| 3 | | | | ¹ Indicators of hydric soil and wetla | nd hydrolo | gy must be |
| ł | | | | present, unless disturbed or prob | ematic | |
| | | | | Definitions of Vegetation Strata: | | |
| 5. | | | | Tree – Woody plants 3 in. (7.6 cm) | or more in | diameter a |
| 7. | | | | breast height (DBH), regardless of | | |
| 3. | | · | | Sapling/shrub – Woody plants less | - | OBH and |
|). | | | | greater than or equal to 3.28 ft (1 | | |
| 0. | | | | Herb – All herbaceous (non-wood | /) plants, re | gardless of |
| 1 | | | | size, and woody plants less than 3 | .28 ft tall. | - |
| 2. | | · | | - Woody vines – All woody vines gre | ater than 3 | .28 ft in |
| Z | | - Total Cau | | height. | | |
| | 30 | = Total Cov | er | Hydrophytic Vegetation Present? | Yes N | lo ./ |
| <u>Noody Vine Stratum</u> (Plot size: <u>30 ft</u>) | | | | | | |
| | | | | - | | |
| 2 | | | | - | | |
| 3 | | | | - | | |
| 4 | | | | - | | |
| | 0 | = Total Cov | er | | | |

| nches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² Tex | ture | Remarks |
|--|--|-----------|-----------------------------|---|---|---|---|---|
|) - 18 | 10YR 3/3 | 100 | | · · | | Silty Cl | ay Loam | |
| | | · | | · · | | | | |
| | | · | | · · | | | | |
| · | | | | · · | | | | |
| be: C = C | oncentration, D = [| Depletio | n, RM = Reduced | Matri | x, MS = N | Masked Sand Grains. ² l | Location: PL = Pore | Lining, M = Matrix. |
| Iric Soil I | ndicators: | | | | | | Indicators for P | roblematic Hydric Soils ³ : |
| Black His Hydroge Stratifiec Depletec Thick Da Sandy M Sandy G Sandy Re | n Sulfide (A4) I Layers (A5) I Below Dark Surfa I Surface (A12) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) | ice (A11) | Depleted Dar Redox Depre | y Mine d Matı trix (F3 Surface k Surf | eral (F1) (rix (F2) 3) e (F6) ^f ace (F7) | | 5 cm Mucky Dark Surfac Polyvalue B Thin Dark S Iron-Manga Piedmont Fl Mesic Spodi Red Parent | elow Surface (S8) (LRR K, L) urface (S9) (LRR K, L) nese Masses (F12) (LRR K, L, R) oodplain Soils (F19) (MLRA 149B) c (TA6) (MLRA 144A, 145, 149B) Material (F21) v Dark Surface (TF12) |
| Dark Sur | face (S7) (LRR R, M | | | | | | | |
| | | etation a | ind wetland hydr | ology | must be | present, unless disturb | ed or problematic. | |
| dicators o strictive L | of hydrophytic vege ayer (if observed): | etation a | | ology | | | ed or problematic. | |
| dicators c strictive L | of hydrophytic vege | etation a | nd wetland hydr None | ology | | present, unless disturb Hydric Soil Present? | ed or problematic. | Yes No _∠ |



Soil Photos





| Project/Site: Garnet | City/County: Port Byron, Cayuga | Sampling Date: 2020-June-17 |
|---|--|--|
| Applicant/Owner: NextEra | State: NY | Sampling Point: W-NSD-04; PEM-1 |
| Investigator(s): Nick DeJohn, Bridgette Rooney | Section, Township, Range: | |
| Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): | Concave Slope (%): 0-1 |
| Subregion (LRR or MLRA): LRR L | Lat: 43.1121275202 Long: | -76.6020423454 Datum: WGS84 |
| Soil Map Unit Name: Niagara and Canandaigua s | ilt loams | NWI classification: |
| Are climatic/hydrologic conditions on the site typica | for this time of year? Yes 🖌 No (If no |), explain in Remarks.) |
| | significantly disturbed? Are "Normal Circums" naturally problematic? (If needed, explain an | tances" present? Yes _✔ No y answers in Remarks.) |

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

| Hydrophytic Vegetation Present? | Yes 🟒 No | | |
|---|-----------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes 🟒 No | Is the Sampled Area within a Wetland? | Yes 🟒 No |
| Wetland Hydrology Present? | Yes 🟒 No | If yes, optional Wetland Site ID: | W-NSD-04 |
| Remarks: (Explain alternative procedures he | ere or in a separate report |) | |
| | | | |
| | | | |
| TRC covertype is PEM. | | | |
| | | | |
| | | | |
| | | | |

| Wetland Hydrology Indicators: | | | | | |
|--|--|------------------------------------|--|--|--|
| Primary Indicators (minimum o | of one is required; check all | <u>that apply)</u> | | Secondary Indicators (minimum of two required) | |
| 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 Aeria Sparsely Vegetated Concav | r-Stained Leaves (B9) cic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) zed Rhizospheres on Living Roots nce of Reduced Iron (C4) nt Iron Reduction in Tilled Soils (C6 Muck Surface (C7) · (Explain in Remarks) | | 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 | Depth (inches): | 8 | Wetland Hydrology Present? Yes No | |
| Saturation Present? | Yes 🟒 No | Depth (inches): | 0 | | |
| (includes capillary fringe) | | | | | |
| Describe Recorded Data (strea | m gauge, monitoring well, . | aerial photos, previous inspectior | ns), if a | ivailable: | |
| | | | | | |

Sampling Point: W-NSD-04; PEM-1

| <u>Free Stratum</u> (Plot size: <u>30 ft</u>) | | Dominant | Indicator | Dominance Test workshe | | | |
|--|---------|-------------|-----------|---|----------------|-------------------|------------------|
| | % Cover | Species? | Status | Number of Dominant Spe Are OBL, FACW, or FAC: | cies That | 3 | (A) |
| · | | · | | Total Number of Dominar | nt Species | 3 | (B) |
| | | | | Across All Strata: | | | (8) |
| | | | | Percent of Dominant Spe | cies That | 100 | (A/B) |
| | | | | Are OBL, FACW, or FAC: | | | |
| | | | | - Prevalence Index worksho | | Multiph | D.a |
| | | | | Total % Cover of OBL species | <u>.</u> 82 | Multiply x 1 = | <u>ру.</u> 82 |
| | 0 | = Total Cov | er | FACW species | 25 | x 2 = | 50 |
| apling/Shrub Stratum (Plot size: <u>15 ft</u>) | | | | FAC species | 8 | x 3 = | 24 |
| | | | | - FACU species | 0 | x 4 = | 0 |
| l | | | | - UPL species | 0 | x 5 = | 0 |
| | | | | - Column Totals | 115 | (A) | 156 (B) |
| | | | | - Prevalence Inde | | 1.4 | 100 (0) |
| | | | | Hydrophytic Vegetation Ir | | | |
| | | · | | 1- Rapid Test for Hyd | | egetation | r |
| · | | | | 2 - Dominance Test i | | egetatio | |
| | 0 | = Total Cov | er | ✓ 3 - Prevalence Index | | | |
| <u>lerb Stratum</u> (Plot size: <u>5 ft</u>) | | | | 4 - Morphological Ac | | (Provide | supportin |
| . Scirpus cyperinus | | Yes | OBL | - data in Remarks or on a s | eparate sh | eet) | |
| . Symphyotrichum novae-angliae | 25 | Yes | FACW | Problematic Hydrop | hytic Vege | tation¹ (E | xplain) |
| . Lythrum salicaria | 20 | Yes | OBL | ¹ Indicators of hydric soil a | nd wetlan | d hydrolo | ogy must b |
| . Carex hystericina | 15 | No | OBL | present, unless disturbed | or probler | natic | |
| . Sparganium americanum | 12 | No | OBL | Definitions of Vegetation | Strata: | | |
| . Equisetum arvense | 8 | No | FAC | Tree – Woody plants 3 in. | | | diameter a |
| . Schoenoplectus tabernaemontani | 5 | No | OBL | breast height (DBH), rega | | - | |
| | | | | Sapling/shrub – Woody p | | | DBH and |
| · | | <u> </u> | | greater than or equal to 3 | | | ardlace o |
| 0 | | | | Herb – All herbaceous (no size, and woody plants les | | | gardiess o |
| 1 | | · | | Woody vines – All woody | | | 28 ft in |
| 2 | | | | height. | vines great | | .201111 |
| | 115 | = Total Cov | er | Hydrophytic Vegetation I | Procont? | | |
| <u>Voody Vine Stratum</u> (Plot size: <u>30 ft</u>) | | | | | resent: | C3 <u>v</u> | 10 |
| | | | | - | | | |
| | | <u> </u> | | - | | | |
| | | · | | - | | | |
| 1 | | | | - | | | |
| | 0 | = Total Cov | er | | | | |

| | Polyvalue Below Thin Dark Surfac | Type1 Loc2 Te: D M Clay | |
|---|---|---|---|
| 0 - 20 10YR 3/1 | 95 N 2.5/ 5 | D M Clay | / Loam |
| ydric Soil Indicators: _ Histosol (A1) _ Histic Epipedon (A2) _ Black Histic (A3) _ Hydrogen Sulfide (A4) | Polyvalue Below Thin Dark Surfac | | |
| l ydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) | Polyvalue Below Thin Dark Surfac | | |
| y dric Soil Indicators: _ Histosol (A1) _ Histic Epipedon (A2) _ Black Histic (A3) _ Hydrogen Sulfide (A4) | Polyvalue Below Thin Dark Surfac | | |
| /dric Soil Indicators: _ Histosol (A1) _ Histic Epipedon (A2) _ Black Histic (A3) _ Hydrogen Sulfide (A4) | Polyvalue Below Thin Dark Surfac | | |
| y dric Soil Indicators: _ Histosol (A1) _ Histic Epipedon (A2) _ Black Histic (A3) _ Hydrogen Sulfide (A4) | Polyvalue Below Thin Dark Surfac | | |
| y dric Soil Indicators: _ Histosol (A1) _ Histic Epipedon (A2) _ Black Histic (A3) _ Hydrogen Sulfide (A4) | Polyvalue Below Thin Dark Surfac | | |
| y dric Soil Indicators: _ Histosol (A1) _ Histic Epipedon (A2) _ Black Histic (A3) _ Hydrogen Sulfide (A4) | Polyvalue Below Thin Dark Surfac | | |
| y dric Soil Indicators: _ Histosol (A1) _ Histic Epipedon (A2) _ Black Histic (A3) _ Hydrogen Sulfide (A4) | Polyvalue Below Thin Dark Surfac | | |
| ydric Soil Indicators: _ Histosol (A1) _ Histic Epipedon (A2) _ Black Histic (A3) _ Hydrogen Sulfide (A4) | Polyvalue Below Thin Dark Surfac | | |
| y dric Soil Indicators: _ Histosol (A1) _ Histic Epipedon (A2) _ Black Histic (A3) _ Hydrogen Sulfide (A4) | Polyvalue Below Thin Dark Surfac | | |
| y dric Soil Indicators: _ Histosol (A1) _ Histic Epipedon (A2) _ Black Histic (A3) _ Hydrogen Sulfide (A4) | Polyvalue Below Thin Dark Surfac | | |
| _ Histosol (A1) _ Histic Epipedon (A2) _ Black Histic (A3) _ Hydrogen Sulfide (A4) | Thin Dark Surfac | Surface (S8) (I DD D MI DA 140 | |
| _ Histic Epipedon (A2) _ Black Histic (A3) _ Hydrogen Sulfide (A4) | Thin Dark Surfac | | Indicators for Problematic Hydric Soils ³ : |
| Black Histic (A3) Hydrogen Sulfide (A4) | | ce (S9) (LRR R, MLRA 149B) | |
| | Loamy Mucky M | ineral (F1) (LRR K, L) | Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| Stratified Layers (A5) | Loamy Gleyed N | latrix (F2) | Dark Surface (S7) (LRR K, L) |
| | Depleted Matrix | | Polyvalue Below Surface (S8) (LRR K, L) |
| _ Depleted Below Dark Surface _ Thick Dark Surface (A12) | (A11) <u>√</u> Redox Dark Surf Depleted Dark S | | Thin Dark Surface (S9) (LRR K, L) |
| _ Sandy Mucky Mineral (S1) | Redox Depressio | | Iron-Manganese Masses (F12) (LRR K, L, R) |
| Sandy Gleyed Matrix (S4) | | | Piedmont Floodplain Soils (F19) (MLRA 149B) |
| _ Sandy Redox (S5) | | | Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) |
| Stripped Matrix (S6) | | | Very Shallow Dark Surface (TF12) |
| Dark Surface (S7) (LRR R, MLR | A 149B) | | Other (Explain in Remarks) |
| ndicators of hydrophytic vegeta | tion and wetland hydrolo | ogy must be present, unless dis | turbed or problematic. |
| estrictive Layer (if observed): | | | |
| Type: | None | Hydric Soil Present | ? Yes 🖌 No |
| Depth (inches): | | | |



Soil Photos





| Project/Site: Garnet | City/County: Port Byron, Cayuga | Sampling Date: 2020-June-17 |
|--|---|--|
| Applicant/Owner: NextEra | State: NY | Sampling Point: W-NSD-04; PFO-2 |
| Investigator(s): Nick DeJohn, Bridgette Rooney | Section, Township, Range: | |
| Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): | Concave Slope (%): 0-1 |
| Subregion (LRR or MLRA): LRR L | Lat: 43.1142579485 Long: | -76.6035991163 Datum: WGS84 |
| Soil Map Unit Name: Hilton loam, 3 to 8 percent s | lopes | NWI classification: |
| Are climatic/hydrologic conditions on the site typical | for this time of year? Yes 🖌 No (If no |), explain in Remarks.) |
| | significantly disturbed? Are "Normal Circums naturally problematic? (If needed, explain an | tances" present? Yes _✔ No y answers in Remarks.) |

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

| Hydrophytic Vegetation Present? | Yes 🟒 No | | |
|---|-----------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes 🟒 No | Is the Sampled Area within a Wetland? | Yes 🯒 No |
| Wetland Hydrology Present? | Yes 🟒 No | If yes, optional Wetland Site ID: | W-NSD-04 |
| Remarks: (Explain alternative procedures he | ere or in a separate report |) | |
| | | | |
| | | | |
| TRC covertype is PFO. | | | |
| The covertype is Pro. | | | |
| | | | |
| | | | |

| Wetland Hydrology Indicators: | | | | | | |
|---|----------------|--|--|---|--|--|
| Primary Indicators (minimum o | f one is requi | ired; check all | <u>that apply)</u> | Secondary Indicators (minimum of two required) | | |
| Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) | | Aquat Marl I Hydro Oxidi: Prese Recer Thin I | r-Stained Leaves (B9) tic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) zed Rhizospheres on Living Roots (C3) nce of Reduced Iron (C4) nt Iron Reduction in Tilled Soils (C6) Muck Surface (C7) • (Explain in Remarks) | 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 🟒 | Depth (inches): | Wetland Hydrology Present? Yes No | | |
| Saturation Present? | Yes | _ No 🟒 | Depth (inches): | | | |
| (includes capillary fringe) | | | | | | |
| Describe Recorded Data (strear | n gauge, moi | nitoring well, | aerial photos, previous inspections), if | available: | | |

Sampling Point: W-NSD-04; PFO-2

| <u>Tree Stratum</u> (Plot size: <u>30 ft</u>) | | Dominant | | Dominance Test worksheet: | | |
|---|---------|-------------|------------|---|--------------------------|------------|
| <u></u> | % Cover | Species? | Status | Number of Dominant Species That | 5 | (A) |
| 1. <i>Fraxinus pennsylvanica</i> | 60 | Yes | FACW | Are OBL, FACW, or FAC: | | |
| Acer rubrum | 25 | Yes | FAC | Total Number of Dominant Species Across All Strata: | 5 | (B) |
| | | | | Percent of Dominant Species That | 100 | (4 (D) |
| | | | | Are OBL, FACW, or FAC: | 100 | (A/B) |
| | | | | Prevalence Index worksheet: | | |
| | | | | Total % Cover of: | Multiply E | <u>By:</u> |
| · | | = Total Cov | o.r. | OBL species 0 | x 1 = | 0 |
| and in a (Church Church and (Dist since 45 ft) | 85 | - 10tal COV | er | FACW species 130 | x 2 = | 260 |
| apling/Shrub Stratum (Plot size: <u>15 ft</u>) | 45 | | 54.6944 | FAC species 25 | x 3 = | 75 |
| . Fraxinus pennsylvanica | 15 | Yes | FACW | FACU species 0 | x 4 = | 0 |
| | | | | UPL species 0 | x 5 = | 0 |
| · | | | | Column Totals 155 | (A) | 335 (B) |
| | | | | Prevalence Index = B/A = | 2.2 | |
| | | | | Hydrophytic Vegetation Indicators: | | |
| | | | | 1- Rapid Test for Hydrophytic | /egetation | |
| | | - Tatal Cau | | 2 - Dominance Test is >50% | | |
| | 15 | = Total Cov | er | \checkmark 3 - Prevalence Index is ≤ 3.0 ¹ | | |
| <u>lerb Stratum</u> (Plot size: <u>5 ft</u>) | 40 | | EA CIAL | 4 - Morphological Adaptations | ¹ (Provide s | upporting |
| . Onoclea sensibilis | 40 | Yes | FACW | - data in Remarks or on a separate sl | neet) | |
| . Impatiens capensis | 15 | Yes | FACW | Problematic Hydrophytic Vege | tation ¹ (Exp | olain) |
| 3 | | | | ¹ Indicators of hydric soil and wetlan | d hydrolog | y must be |
| 1 | | | | present, unless disturbed or proble | matic | |
| | | | | Definitions of Vegetation Strata: | | |
| | | | | Tree – Woody plants 3 in. (7.6 cm) o | r more in d | iameter a |
| 7 | | | | breast height (DBH), regardless of h | eight. | |
| 3 | | | | Sapling/shrub – Woody plants less t | | BH and |
|) | | | | greater than or equal to 3.28 ft (1 m | ı) tall. | |
| 0. | | | | Herb – All herbaceous (non-woody) | | ardless of |
| 1 | | | | size, and woody plants less than 3.2 | | |
| 2. | | | | Woody vines – All woody vines grea | ter than 3.2 | 28 ft in |
| | 55 | = Total Cov | er | height. | | |
| <u>Noody Vine Stratum (</u> Plot size: <u>30 ft</u>) | | • | | Hydrophytic Vegetation Present? | Yes 🟒 N | o c |
| · | | | | | | |
| 2. | | | | - | | |
| 3. | | | | - | | |
| 1. | | | | - | | |
| | 0 | = Total Cov | er | - | | |
| | | | . . | | | |

| (inches) | Matrix | | Redox | <pre>< Featu</pre> | ires | ndicator or confirm the | | |
|------------|-----------------------------------|---------------------|------------------|-----------------------|-------------------|--------------------------|---------------------------|--|
| linches | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² Textu | ıre | Remarks |
| 0 - 18 | 10YR 3/1 | 98 | 5YR 4/6 | 2 | С | M Clay Lo | oam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | · | | |
| | | | | | | | | |
| | | | | | | | | |
| ype: C = 0 | Concentration, D = I | Depleti | on, RM = Reduced | d Matr | ix, MS = | Masked Sand Grains. | ² Location: PL | = Pore Lining, M = Matrix. |
| | Indicators: | | | | | | Indicators | s for Problematic Hydric Soils ³ : |
| _ Histoso | | | • | | | 8) (LRR R, MLRA 149B) | 2 cm l | Muck (A10) (LRR K, L, MLRA 149B) |
| | pipedon (A2) | | | | | R, MLRA 149B) | Coast | Prairie Redox (A16) (LRR K, L, R) |
| _ | istic (A3) | | Loamy Muck | - | | (LRR K, L) | 5 cm l | Mucky Peat or Peat (S3) (LRR K, L, R) |
| | en Sulfide (A4) ed Layers (A5) | | Loamy Gleye | | | | Dark S | Surface (S7) (LRR K, L) |
| | ed Below Dark Surfa | ce (A1 ⁻ | | | | | | alue Below Surface (S8) (LRR K, L) |
| | ark Surface (A12) | | Depleted Da | | | | | Dark Surface (S9) (LRR K, L) |
| - | Mucky Mineral (S1) | | Redox Depre | | | | | Anganese Masses (F12) (LRR K, L, R) |
| _ Sandy (| Gleyed Matrix (S4) | | | | | | | nont Floodplain Soils (F19) (MLRA 149B) |
| _ Sandy F | Redox (S5) | | | | | | | Spodic (TA6) (MLRA 144A, 145, 149B) arent Material (F21) |
| _ Strippe | d Matrix (S6) | | | | | | | Shallow Dark Surface (TF12) |
| _ Dark Su | urface (S7) (LRR R, M | ILRA 14 | 9B) | | | | - | (Explain in Remarks) |
| | | etation | and wetland hyd | rology | must he | e present, unless distur | | • |
| dicators | of hydrophytic year | | and wettand flya | поюду | mustbe | | | |
| | · · · · · | | | | | Hydric Soil Present? | | Vee (Ne |
| | Layer (if observed): | | None | | | | | Yes Z NO |
| | Layer (if observed): Type: | | None | _ | | rigane son resent. | | Yes _ 🖌 No |
| strictive | Layer (if observed): | | None | <u>-</u> | | | | Yes NO |
| strictive | Layer (if observed): Type: | | None | | | | | Yes NO |
| strictive | Layer (if observed): Type: | | None | - | | | | Yes NO |
| strictive | Layer (if observed): Type: | | None | - | | | | Yes NO |
| strictive | Layer (if observed): Type: | | None | - | | | | Yes NO |
| strictive | Layer (if observed): Type: | | None | | | | | Yes NO |
| strictive | Layer (if observed): Type: | | None | - | | | | Yes NO |
| strictive | Layer (if observed): Type: | | None | - | | | | Yes NO |
| strictive | Layer (if observed): Type: | | None | - | | | | Yes NO |
| strictive | Layer (if observed): Type: | | None | - | | | | Yes NO |
| strictive | Layer (if observed): Type: | | None | | | | | Yes NO |
| strictive | Layer (if observed): Type: | | None | | | | | Yes NO |
| estrictive | Layer (if observed): Type: | | None | | | | | Yes NO |
| estrictive | Layer (if observed): Type: | | None | | | | | Yes NO |
| estrictive | Layer (if observed): Type: | | None | | | | | Yes NO |
| | Layer (if observed): Type: | | None | | | | | Yes NO |
| estrictive | Layer (if observed): Type: | | None | _ | | | | Yes NO |
| estrictive | Layer (if observed): Type: | | None | _ | | | | Yes _ <u>/</u> NO |
| strictive | Layer (if observed): Type: | | None | _ | | | | Yes NO |



Soil Photos





| Project/Site: Garnet | | Ci | ity/County: Weeds | port, Cay | uga | | Sampling Date: | 2020-June-17 |
|-------------------------|-----------------|---------------------|-----------------------|------------|-------------------|----------|--------------------|-----------------|
| Applicant/Owner: N | lextEra | | | | State: NY | | Sampling Point: | W-NSD-04; UPL-1 |
| Investigator(s): Nick | DeJohn, Bridg | ette Rooney | | Sect | ion, Township, Ra | nge: | | |
| Landform (hillslope, te | rrace, etc.): | Plain | Lo | cal relief | (concave, convex, | , none): | Flat | Slope (%): 0-1 |
| Subregion (LRR or MLF | RA): LRR L | | | Lat: | 43.1122154883 | Long: | -76.6017355677 | Datum: WGS84 |
| Soil Map Unit Name: | Niagara and | Canandaigua silt l | loams | | | | NWI classifie | cation: |
| Are climatic/hydrologie | c conditions on | the site typical fo | or this time of year? | , | Yes 🟒 No 🔄 | (lf n | o, explain in Rema | irks.) |
| Are Vegetation, | Soil, | or Hydrology | _ significantly distu | rbed? | Are "Normal (| Circums | tances" present? | Yes 🟒 No |
| Are Vegetation, | Soil, | or Hydrology | _ naturally problem | natic? | (If needed, ex | plain ar | ny answers in Rem | arks.) |

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

| Hydrophytic Vegetation Present? | Yes 🟒 No | | |
|---|-------------------------------|---------------------------------------|----------|
| Hydric Soil Present? | Yes No 🟒 | Is the Sampled Area within a Wetland? | Yes No 🟒 |
| Wetland Hydrology Present? | Yes No _ | If yes, optional Wetland Site ID: | |
| Remarks: (Explain alternative procedure | s here or in a separate repor | | |
| | | | |
| | | | |
| TRC covertype is UPL. | | | |
| | | | |
| | | | |
| | | | |

| Wetland Hydrology Indicators: | | | | | | |
|-----------------------------------|---------------------|---|---|--|--|--|
| Primary Indicators (minimum of on | <u>e is require</u> | d; check all tha | t apply) | Secondary Indicators (minimum of two required) | | |
| High Water Table (A2) | | Aquatic F. Marl Depr Hydrogen Oxidized Presence Recent Irco Thin Mucl | ined Leaves (B9) auna (B13) osits (B15) Sulfide Odor (C1) Rhizospheres on Living Roots (C of Reduced Iron (C4) on Reduction in Tilled Soils (C6) < Surface (C7) olain in Remarks) | 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 I | No 🟒 | Depth (inches): | | | |
| Water Table Present? | Yes I | No 🔽 | Depth (inches): | Wetland Hydrology Present? Yes No | | |
| Saturation Present? | Yes I | No 🟒 | Depth (inches): | | | |
| (includes capillary fringe) | | | | | | |
| Describe Recorded Data (stream ga | auge, monit | oring well, aeria | al photos, previous inspections) | if available: | | |
| | | | | | | |

Sampling Point: W-NSD-04; UPL-1

| <u>Free Stratum</u> (Plot size: <u>30 ft</u>) | Absolute | Dominant | Indicator | Dominance Test worksheet: | | |
|--|----------|--|-----------|---|---------------------------|------------|
| | % Cover | Species? | Status | 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: | 66.7 | (A/B) |
| | | | | Prevalence Index worksheet: | | |
| · | | · · | | - <u>Total % Cover of:</u> | Multiply B | <u>by:</u> |
| | | - Total Cov | or | OBL species 0 | x 1 = | 0 |
| anling (Church Strategy (Distring) 15 ft) | 0 | = Total Cov | er | FACW species 40 | x 2 = | 80 |
| apling/Shrub Stratum (Plot size: <u>15 ft</u>) | 60 | Vee | FAC | FAC species 85 | x 3 = | 255 |
| . <u>Rhamnus cathartica</u> | 60 | Yes | FAC | FACU species 35 | x 4 = | 140 |
| . Fraxinus pennsylvanica | 10 | No | FACW | UPL species 0 | x 5 = | 0 |
| | | | | Column Totals 160 | (A) | 475 (B |
| | | | | Prevalence Index = B/A = | 3 | |
| | | | | Hydrophytic Vegetation Indicators: | | |
| | | | | 1- Rapid Test for Hydrophytic | | |
| | | | | 2 - Dominance Test is >50% | 0 | |
| | 70 | = Total Cov | er | \checkmark 3 - Prevalence Index is $\leq 3.0^1$ | | |
| lerb Stratum (Plot size: <u>5 ft</u>) | | | | 4 - Morphological Adaptation | s ¹ (Provide s | upportin |
| . Solidago gigantea | 30 | Yes | FACW | - data in Remarks or on a separate s | | |
| . Lonicera morrowii | 20 | Yes | FACU | Problematic Hydrophytic Veg | etation ¹ (Exp | olain) |
| . Rhamnus cathartica | 15 | No | FAC | ¹ Indicators of hydric soil and wetla | nd hydrolog | y must b |
| . <u>Rosa multiflora</u> | 15 | No | FACU | present, unless disturbed or proble | ematic | |
| . Toxicodendron radicans | 10 | No | FAC | Definitions of Vegetation Strata: | | |
| | | · | | Tree – Woody plants 3 in. (7.6 cm) o | or more in d | iameter a |
| | | | | breast height (DBH), regardless of | - | |
| | | | | Sapling/shrub – Woody plants less | | BH and |
| | | | | greater than or equal to 3.28 ft (1 r | | |
| 0 | | | | Herb – All herbaceous (non-woody | | ardless o |
| 1 | | | | size, and woody plants less than 3. | | 0.66 |
| 2 | | | | Woody vines – All woody vines grea | ater than 3.2 | 28 TT IN |
| | 90 | = Total Cov | er | height. | | |
| <u>Voody Vine Stratum</u> (Plot size: <u>30 ft</u>) | | | | Hydrophytic Vegetation Present? | Yes 🟒 No |) |
| | | | | _ | | |
| | | | | _ | | |
| | | | | _ | | |
| l | | | | _ | | |
| | 0 | = Total Cov | er | | | |

| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² Tex | ture | Remarks |
|--|--|----------|---|---|--|------------------------------------|--|--|
|) - 17 | 10YR 3/2 | 98 | 5YR 4/6 | 2 | | M Silty Cla | ay Loam | |
| | | · | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | Pepletio | on, RM = Reduced | l Mat | rix, MS = | Masked Sand Grains. ² L | ocation: PL = Pore Li | * |
| ric Soil Indio Histosol (A1 | | | Polycolus Da | | urface (C | 8) (LRR R, MLRA 149B) | | lematic Hydric Soils ³ : |
| Thick Dark S Sandy Muck Sandy Gleye Sandy Redo Stripped Ma | (A3) ulfide (A4) yers (A5) elow Dark Surfa Gurface (A12) y Mineral (S1) ed Matrix (S4) x (S5) | | Thin Dark Su Loamy Muck Depleted Ma) Redox Dark 1 Depleted Da Redox Depre | y Mir d Ma itrix (l Surfa rk Su | eral (F1) trix (F2) -3) ce (F6) rface (F7) | (LRR K, L) | Coast Prairie R 5 cm Mucky Pe Dark Surface (S Polyvalue Belov Thin Dark Surfa Iron-Manganes Piedmont Floor | w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) e Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 149B) (A6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) |
| licators of h | ydrophytic vege | etation | and wetland hyd | rolog | y must be | e present, unless disturb | ed or problematic. | |
| trictive Lave | r (if observed): | | | | | | | |
| cheave Luye | e. | | None | _ | | Hydric Soil Present? | Ye | es No 🟒 |
| тур | | | | | | | | |
| Тур | oth (inches): | | | | | | | |



Soil Photos