

| Project/Site: CHPE | City/Co | ounty: Dresden/Washington | Sampling Date: <u>10/12/21</u> |
|--|----------------------------|-------------------------------|--------------------------------|
| Applicant/Owner: TDI | | State: N | IY Sampling Point: C2G-6 Upl |
| Investigator(s): N. Frazer, C. Einstein | | Section, Township, Range: | |
| Landform (hillside, terrace, etc.): hillslope | Local relief (co | oncave, convex, none): none | Slope %: 2 |
| Subregion (LRR or MLRA): LRR R | Lat: <u>43-41-21.13N</u> | Long: 73-25-20.93W | Datum: |
| Soil Map Unit Name: Hollis-Charlton association | | NWI classificat | tion: N/A |
| Are climatic / hydrologic conditions on the site typic | cal for this time of year? | Yes x No (If | no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrology | significantly disturbed? | Are "Normal Circumstances" | present? Yes x No |
| Are Vegetation, Soil, or Hydrology | naturally problematic? | (If needed, explain any answe | ers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site | map showing sampling | point locations, transects | , important features, etc. |
| | | | |

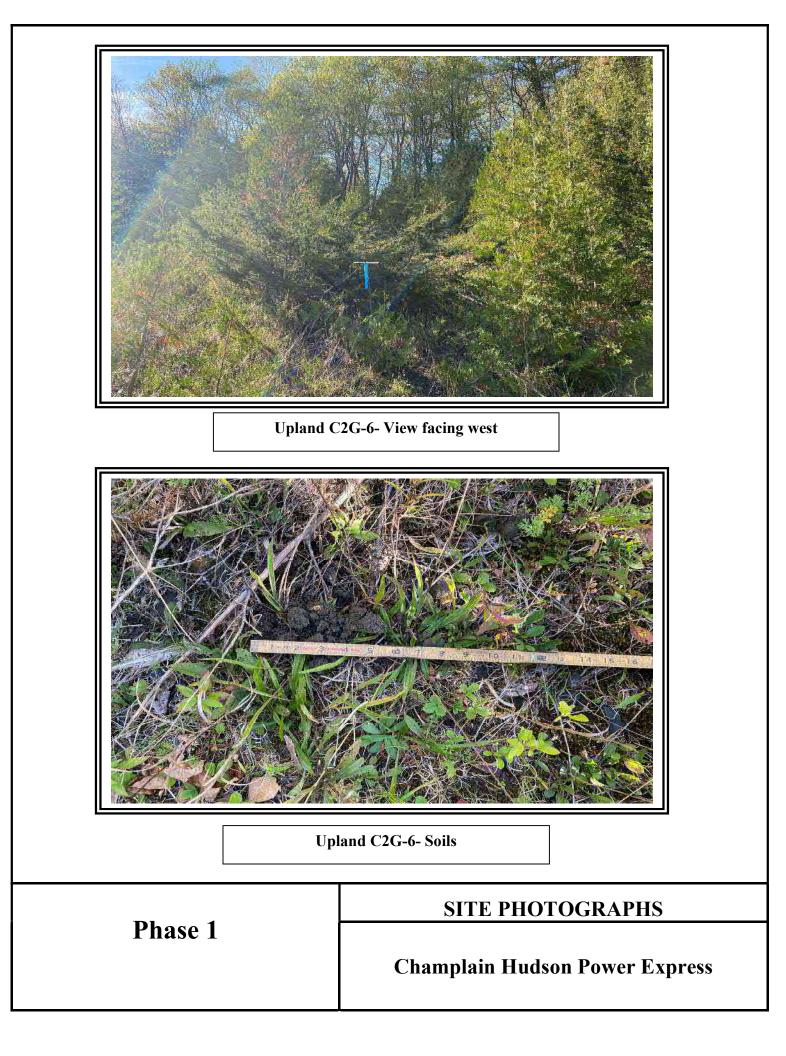
| Hydrophytic Vegetation Present? | Yes <u>X</u> | No | Is the Sampled Area within a Wetland? Yes NoX If yes, optional Wetland Site ID: |
|---|--------------------|------------------|---|
| Hydric Soil Present? | Yes | NoX | |
| Wetland Hydrology Present? | Yes | NoX | |
| Remarks: (Explain alternative procedur Upland scrub shrub. | es here or in a se | əparate report.) | |

| Wetland Hydrology Indicators: | | Secondary Indicators (minimum of two required) |
|--|---|---|
| Primary Indicators (minimum of one is requir | ed; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) | Water-Stained Leaves (B9) | Drainage Patterns (B10) |
| High Water Table (A2) | Aquatic Fauna (B13) | Moss Trim Lines (B16) |
| Saturation (A3) | Marl Deposits (B15) | Dry-Season Water Table (C2) |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | Crayfish Burrows (C8) |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Roo | ts (C3) Saturation Visible on Aerial Imagery (C9) |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | Stunted or Stressed Plants (D1) |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils (| C6) Geomorphic Position (D2) |
| Iron Deposits (B5) | Thin Muck Surface (C7) | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7 |) Other (Explain in Remarks) | Microtopographic Relief (D4) |
| Sparsely Vegetated Concave Surface (B | 8) | X FAC-Neutral Test (D5) |
| Field Observations: | | |
| Surface Water Present? Yes | No x Depth (inches): | |
| Water Table Present? Yes | No x Depth (inches): | |
| | | |
| Saturation Present? Yes | No X Depth (inches): | Wetland Hydrology Present? Yes No X |
| | / | Wetland Hydrology Present? Yes No X |
| Saturation Present? Yes | No X Depth (inches): | |
| Saturation Present? Yes (includes capillary fringe) | No X Depth (inches): | |
| Saturation Present? Yes (includes capillary fringe) | No X Depth (inches): | |
| Saturation Present? Yes (includes capillary fringe) | No X Depth (inches): | |
| Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo | No X Depth (inches): | |
| Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo | No X Depth (inches): | |
| Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo | No X Depth (inches): | |
| Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo | No X Depth (inches): | |
| Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo | No X Depth (inches): | |
| Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo | No X Depth (inches): | |
| Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo | No X Depth (inches): | |
| Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo | No X Depth (inches): | |

Sampling Point: C2G-6 Upl

| | Yes | FACW | | (A) |
|----|--|--|--|---|
| | | | | (, , |
| | | | | |
| | | | Total Number of Dominant Species Across All Strata: | (B) |
| | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0% | (A/B) |
| | | | Prevalence Index worksheet: | |
| 10 | =Total Cover | | Total % Cover of: Multiply by: | |
|) | | | OBL species x 1 =0 | |
| 40 | Yes | FACW | FACW species 85 x 2 = 170 | _ |
| 40 | Yes | FACU | FAC species 10 x 3 = 30 | _ |
| | | | FACU species 73 x 4 = 292 | - |
| | | | UPL species 5 x 5 = 25 | |
| | | | Column Totals: 173 (A) 517 | — (B) |
| | | | (, | _` |
| | | | | |
| 80 | =Total Cover | | | |
| | | | | |
| 10 | No | EAC | | |
| | | | | oortin |
| | | | | Jonun |
| | | | | , |
| | | | Problematic Hydrophytic Vegetation (Explain | n) |
| | No | UPL | ¹ Indicators of hydric soil and wetland hydrology n be present, unless disturbed or problematic. | nust |
| | | | Definitions of Vegetation Strata: | |
| | | | Tree – Woody plants 3 in. (7.6 cm) or more in | oight |
| | | | Sapling/shrub – Woody plants less than 3 in. Dl | - |
| | | | and greater than or equal to 3.28 ft (1 m) tall. | |
| 83 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regar of size, and woody plants less than 3.28 ft tall. | dles |
|) | | | Woody vines – All woody vines greater than 3.2 | 8 ft ir |
| | | | | |
| | | | Hydrophytic | |
| · | | | - | |
| · | =Total Cover | | | |
| | | | | |
| | 40 40 80 10 25 35 8 5 | 40 Yes 80 =Total Cover 10 No 25 Yes 35 Yes 8 No 5 No 83 =Total Cover 83 =Total Cover | 40 Yes FACU 40 Yes FACU 10 No FAC 25 Yes FACU 35 Yes FACU 35 Yes FACU 35 Yes FACU 35 No FACU 5 No UPL 5 No UPL 83 =Total Cover |) 0BL species 0 x 1 = 0 40 Yes FACW FACW species 85 x 2 = 170 40 Yes FACU FACW species 85 x 4 = 292 40 Yes FACU FAC species 73 x 4 = 292 40 Yes FACU FACU species 73 x 4 = 292 40 Yes FACU FACU species 73 x 4 = 292 40 Yes FACU FACU species 73 x 4 = 292 40 Yes FACU FACU FACU Factor A(A) 517 9 Prevalence Index = B/A = 2.99 Problematic Index for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations1 (Provide supp data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation 1 (Explain the memory or a separate sheet) Problematic Hydrophytic Vegetation 1 (Explain the present, unless disturbed or problematic. 5 No UPL 1 Indicators of hydric soil and wetland hydrology n be present, unless disturbed or gradiless of he diameter at breast height (DBH), regardless of het |

| Profile Desc | ription: (Describe | to the de | oth needed to docu | ument ti | he indica | tor or co | onfirm the absence of | indicators.) | | |
|----------------------------|---------------------------|------------|----------------------------------|-----------------|-------------------|------------------|------------------------|--|-------------------|------------|
| Depth | Matrix | | Redo | x Featur | es | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | R | emarks | |
| 0-1 | 10YR 3/1 | 100 | | | | | Sandy | | | |
| 1-5 | 10YR 3/2 | 100 | | | | | Sandy | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| | oncentration, D=Dep | letion, RM | =Reduced Matrix, M | /IS=Mas | ked Sanc | Grains. | | _=Pore Lining, N | | |
| Hydric Soil | | | | ~ . | (0.0) (| | | r Problematic I | • | _ ` |
| Histosol | | | Polyvalue Belo | | ce (S8) (I | -RR R, | | ck (A10) (LRR K | | - |
| | bipedon (A2) | | MLRA 149B | , | | | | airie Redox (A16 | | |
| Black Hi | n Sulfide (A4) | | Thin Dark Surfa High Chroma S | | - | | | cky Peat or Peat | | |
| | l Layers (A5) | | Loamy Mucky | - | | | | e Below Surface k Surface (S9) (I | |) |
| | Below Dark Surface | o (A11) | | | | (K , L) | | | - | D) |
| · · | ark Surface (A12) | e (ATT) | Loamy Gleyed | | ΓΖ) | | | ganese Masses t Floodploip Soil | | - |
| | | | Depleted Matri | | () | | | t Floodplain Soil | | |
| | lucky Mineral (S1) | | Redox Dark Su | | - | | | odic (TA6) (MLF | | 49D) |
| | leyed Matrix (S4) | | Depleted Dark | | | | | ent Material (F21 | | |
| | edox (S5) | | Redox Depress | ` | 8) | | | Illow Dark Surfac | | |
| | Matrix (S6) rface (S7) | | Marl (F10) (LR | R K, L) | | | | kplain in Remark | s) | |
| | | | | | | | | | | |
| ³ Indicators of | f hydrophytic vegetat | tion and w | etland hydrology mu | ust be pi | resent, ur | less dist | urbed or problematic. | | | |
| Restrictive I | Layer (if observed): | : | | | | | | | | |
| Type: | roc | ck | | | | | | | | |
| Depth (ir | nches): | 5 | | | | | Hydric Soil Presen | t? Yes | No_> | < <u> </u> |
| Remarks: | | | | | | | | | | |
| | | | | | | | 2.0 to include the NRC | S Field Indicato | rs of Hydric Soil | s, |
| version 7.0, | 2015 Errata. (http://v | www.mcs.u | usua.gov/internet/F3 | | | 5/11/05/14/ | 2p2_051293.d0cx) | | | |
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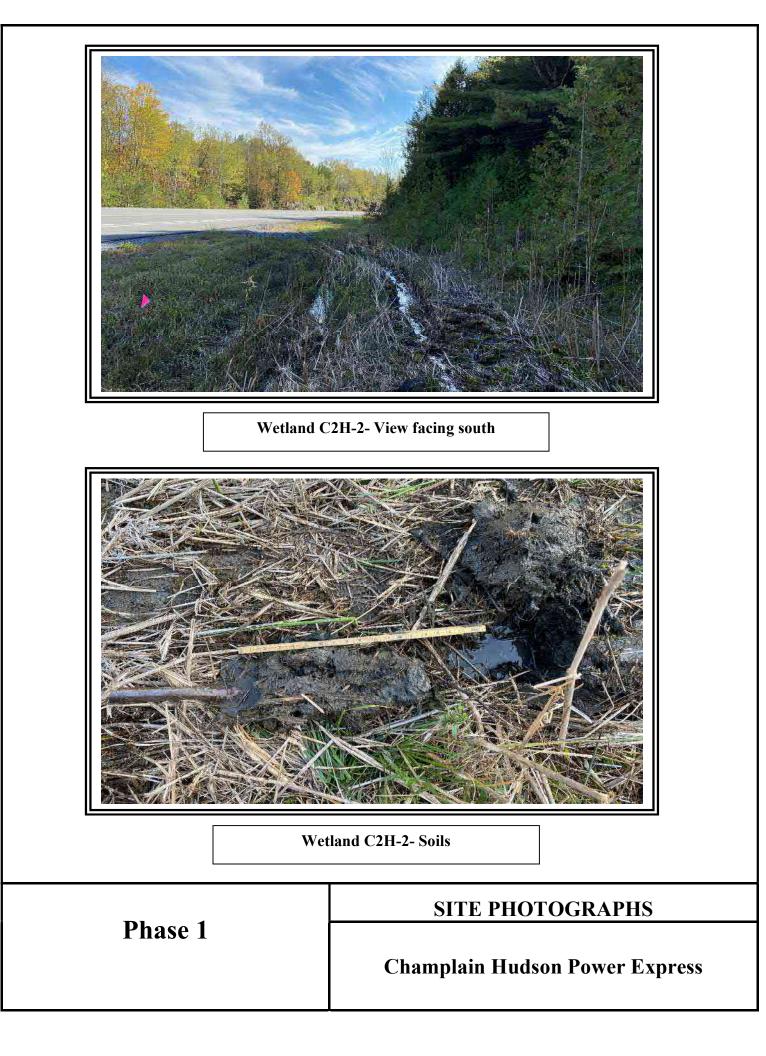
| Project/Site: CHPE | City/County: Dresden/Washington Sampling Date: 10/12/21 |
|--|--|
| Applicant/Owner: TDI | State: NY Sampling Point: C2H-2 Wet |
| Investigator(s): N. Frazer, C. Einstein | Section, Township, Range: |
| Landform (hillside, terrace, etc.): ditch Local | relief (concave, convex, none): none Slope %: 0 |
| Subregion (LRR or MLRA): LRR R Lat: 43-41-17.10N | Long: 73-25-20.93W Datum: |
| Soil Map Unit Name: Hollis-Charlton association | NWI classification: PEM |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes x No (If no, explain in Remarks.) |
| Are Vegetation, Soil _ X _, or Hydrology significantly distur | bed? Are "Normal Circumstances" present? Yes x No |
| Are Vegetation, Soil, or Hydrology naturally problema | atic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sam | pling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No |
| Wetland Hydrology Present? Yes X No | If yes, optional Wetland Site ID: |
| Remarks: (Explain alternative procedures here or in a separate report.) Linear vegetated ditch. | |

| Wetland Hydrology Indicators: | | Secondary Indicators (minimum of two required) |
|--|--|--|
| Primary Indicators (minimum of one is req | ired; check all that apply) | Surface Soil Cracks (B6) |
| X Surface Water (A1) | Water-Stained Leaves (B9) | Drainage Patterns (B10) |
| X High Water Table (A2) | Aquatic Fauna (B13) | Moss Trim Lines (B16) |
| X Saturation (A3) | Marl Deposits (B15) | Dry-Season Water Table (C2) |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | Crayfish Burrows (C8) |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Roots | (C3) Saturation Visible on Aerial Imagery (C9) |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | Stunted or Stressed Plants (D1) |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils (C | C6) X Geomorphic Position (D2) |
| Iron Deposits (B5) | Thin Muck Surface (C7) | X Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (I | 07) Other (Explain in Remarks) | Microtopographic Relief (D4) |
| Sparsely Vegetated Concave Surface | (B8) | X FAC-Neutral Test (D5) |
| Field Observations: | | |
| Surface Water Present? Yes x | No Depth (inches):0.5 | |
| Water Table Present? Yes x | No Depth (inches): 4 | |
| | | |
| Saturation Present? Yes x | No Depth (inches):0 | Wetland Hydrology Present? Yes X No |
| Saturation Present? Yes x (includes capillary fringe) | No Depth (inches): N | Wetland Hydrology Present? Yes X No |
| (includes capillary fringe) | No Depth (inches): No | |
| (includes capillary fringe) | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, n | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, n Remarks: | nonitoring well, aerial photos, previous inspectio | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, n | nonitoring well, aerial photos, previous inspectio | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, n Remarks: | nonitoring well, aerial photos, previous inspectio | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, n Remarks: | nonitoring well, aerial photos, previous inspectio | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, n Remarks: | nonitoring well, aerial photos, previous inspectio | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, n Remarks: | nonitoring well, aerial photos, previous inspectio | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, n Remarks: | nonitoring well, aerial photos, previous inspectio | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, n Remarks: | nonitoring well, aerial photos, previous inspectio | |

Sampling Point: C2H-2 Wet

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|--|---------------------|----------------------|---------------------|---|
| 1 | | | | Number of Dominant Species |
| 2 | | | | That Are OBL, FACW, or FAC:(A) |
| 3 | | | | Total Number of Dominant |
| 4 | | | | Species Across All Strata: <u>3</u> (B) |
| 5 | | | | Percent of Dominant Species |
| 6 | | | | That Are OBL, FACW, or FAC:66.7% (A/B) |
| 7 | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of:Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species75 x 1 =75 |
| 1. Thuja occidentalis | 10 | Yes | FACW | FACW species 10 x 2 = 20 |
| 2 | | | | FAC species X 3 = 30 |
| 3 | | | | FACU species x 4 =0 |
| 4 | | | | UPL species x 5 = |
| 5 | | | | Column Totals: 95 (A) 125 (B) |
| 6 | | | | Prevalence Index = B/A =1.32 |
| 7 | | | | Hydrophytic Vegetation Indicators: |
| | 10 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% |
| 1. Typha angustifolia | 65 | Yes | OBL | X 3 - Prevalence Index is $\leq 3.0^{1}$ |
| 2. Lythrum salicaria | 10 | No | OBL | 4 - Morphological Adaptations ¹ (Provide supporting |
| 3. Juncus tenuis | 10 | No | FAC | data in Remarks or on a separate sheet) |
| 4. Sphagnum sp. | 25 | Yes | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5 | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 6 | | | | be present, unless disturbed or problematic. |
| 7 | | | | Definitions of Vegetation Strata: |
| 8 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in |
| 9 | | | | diameter at breast height (DBH), regardless of height. |
| 10. | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | | | | Herb – All herbaceous (non-woody) plants, regardless |
| | 110 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | Woody vines – All woody vines greater than 3.28 ft in |
| 1 | | | | height. |
| 2 | | | | |
| 3 | | | | Hydrophytic Vegetation |
| 4. | | | | Present? Yes X No |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a separ | rate sheet.) | | | 1 |
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| Profile Desc | ription: (Describe | to the de | pth needed to docu | iment t | he indica | tor or c | onfirm the absence of in | dicators.) |
|-------------------------|---|------------|--|------------------------|-------------------|------------------|---------------------------------------|--|
| Depth | Matrix | | Redox | <pre>< Featur</pre> | res | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-12 | 10YR 3/1 | 100 | | | | | Muck | |
| 12-15 | 10YR 4/1 | 100 | | | | | Sandy | and gravel |
| | | | | | | | | |
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| | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=Dep | letion, RN | - I=Reduced Matrix, N | IS=Mas | ked Sand | Grains. | ² Location: PL=I | Pore Lining, M=Matrix. |
| Hydric Soil | Indicators: | | | | | | Indicators for I | Problematic Hydric Soils ³ : |
| Histosol | (A1) | | Polyvalue Belo | w Surfa | ce (S8) (I | LRR R, | 2 cm Muck | (A10) (LRR K, L, MLRA 149B) |
| X Histic Ep | oipedon (A2) | | MLRA 1498 |) | | | Coast Prair | ie Redox (A16) (LRR K, L, R) |
| X Black Hi | | | Thin Dark Surfa | | | | · · · · · · · · · · · · · · · · · · · | Peat or Peat (S3) (LRR K, L, R) |
| | n Sulfide (A4) | | High Chroma S | - | | | | Below Surface (S8) (LRR K, L) |
| | l Layers (A5) | - (| Loamy Mucky I | | | Κ, L) | | Surface (S9) (LRR K, L) |
| · · | l Below Dark Surface ark Surface (A12) | e (ATT) | Loamy Gleyed Depleted Matrix | | FZ) | | | nese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) |
| | lucky Mineral (S1) | | Redox Dark Su | | 6) | | | lic (TA6) (MLRA 144A, 145, 149B) |
| | leyed Matrix (S4) | | Depleted Dark | • | , | | | Material (F21) |
| | edox (S5) | | Redox Depress | | . , | | | w Dark Surface (F22) |
| Stripped | Matrix (S6) | | Marl (F10) (LR | R K, L) | - | | Other (Expl | ain in Remarks) |
| Dark Su | rface (S7) | | | | | | | |
| | | | | | | | | |
| | | | etland hydrology mu | ist be pi | resent, ur | nless dist | turbed or problematic. | |
| | _ayer (if observed): | | | | | | | |
| Type: | roc | | | | | | | |
| Depth (ir | 1ches): | 15 | | | | | Hydric Soil Present? | Yes <u>X</u> No |
| | 2015 Errata. (http://v | | l and Northeast Regi usda.gov/Internet/FS | | | | | Field Indicators of Hydric Soils, |
| | | | | | | | | |
| | | | | | | | | |
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| Project/Site: CHPE | City/County: Dresden/Washington Sampling Date: 10/12/21 |
|---|---|
| Applicant/Owner: TDI | State: NY Sampling Point: C2H-2 Upl |
| Investigator(s): N. Frazer, C. Einstein | Section, Township, Range: |
| Landform (hillside, terrace, etc.): flat Loca | I relief (concave, convex, none): <u>none</u> Slope %: <u>0</u> |
| Subregion (LRR or MLRA): LRR R Lat: 43-41-17.10N | Long: 73-25-20.93W Datum: |
| Soil Map Unit Name: Hollis-Charlton association | NWI classification: N/A |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes x No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly distu | Irbed? Are "Normal Circumstances" present? Yes x No |
| Are Vegetation, Soil, or Hydrologynaturally problem | natic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sar | npling point locations, transects, important features, etc. |

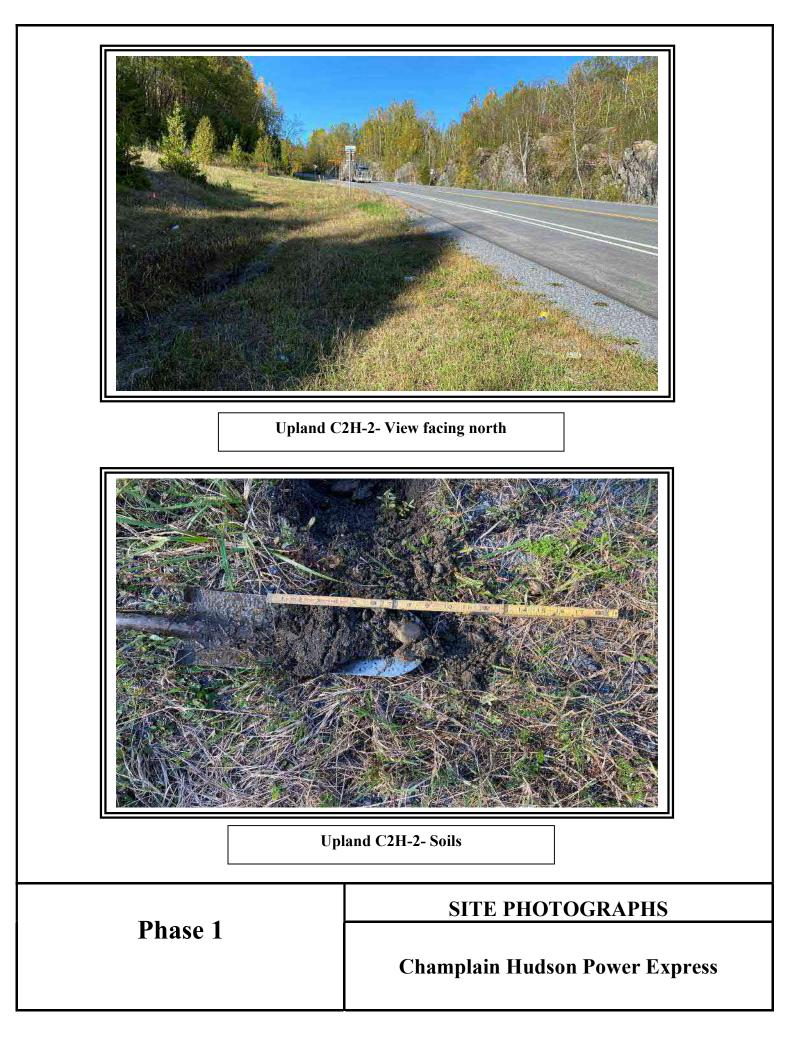
| Hydrophytic Vegetation Present? | Yes | No X | Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: |
|--|------------------|-------------------|--|
| Hydric Soil Present? | Yes | No X | |
| Wetland Hydrology Present? | Yes | No X | |
| Remarks: (Explain alternative procedu Mowed roadside. | res here or in a | separate report.) | |

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

Sampling Point: C2H-2 Upl

| <u>Tree Stratum</u> (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|---|---------------------|----------------------|---------------------|---|
| 1 | | | | Number of Dominant Species |
| 2. | | | | That Are OBL, FACW, or FAC:0 (A) |
| 3 | | | | Total Number of Dominant |
| 4 | | | | Species Across All Strata: 2 (B) |
| 5 | | | | Percent of Dominant Species |
| 6 | | | | That Are OBL, FACW, or FAC: 0.0% (A/B) |
| 7 | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species x 1 = |
| 1 | | | | FACW species 0 x 2 = 0 |
| 2 | | | | FAC species 15 x 3 = 45 |
| 3 | | | | FACU species x 4 = 180 |
| 4 | | | | UPL species20 x 5 =100 |
| 5 | | | | Column Totals: 80 (A) 325 (B) |
| 6 | | | | Prevalence Index = B/A = 4.06 |
| 7 | | | | Hydrophytic Vegetation Indicators: |
| | | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% |
| 1. Daucus carota | 20 | Yes | UPL | 3 - Prevalence Index is ≤3.0 ¹ |
| 2. <u>Setaria pumila</u> | 15 | No | FAC | 4 - Morphological Adaptations ¹ (Provide supporting |
| 3. Lotus corniculatus | 30 | Yes | FACU | data in Remarks or on a separate sheet) |
| 4. Taraxacum officinale | 5 | No | FACU | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. Plantago lanceolata | 10 | No | FACU | ¹ Indicators of hydric soil and wetland hydrology must |
| 6 | | | | be present, unless disturbed or problematic. |
| 7 | | | | Definitions of Vegetation Strata: |
| 8 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in |
| 9 | | | | diameter at breast height (DBH), regardless of height. |
| 10 | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | | | | Herb – All herbaceous (non-woody) plants, regardless |
| | 80 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | Woody vines – All woody vines greater than 3.28 ft in |
| 1 | | | | height. |
| 2 | | | | Li viro nin din |
| 3 | | | | Hydrophytic Vegetation |
| 4 | | | | Present? Yes <u>No X</u> |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a sepa | rate sheet.) | | | |
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| Profile Des | cription: (Describe | to the de | pth needed to docu | ument t | he indica | tor or co | onfirm the absence of indicate | ors.) |
|----------------|---|------------|--------------------------------|----------|-------------------|------------------|---|---------------------------------------|
| Depth | Matrix | | Redox | x Featu | res | | | |
| (inches) | Color (moist) | % | Color (moist) | | Type ¹ | Loc ² | Texture | Remarks |
| 0-4 | 10YR 4/2 | 100 | | | | | Sandy | with gravel |
| 4-8 | 10YR 3/2 | 100 | | | | | Sandy | with gravel |
| | | | | | | | | |
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| 1 <u>т о о</u> | | | | | | | | |
| Hydric Soil | oncentration, D=Dep | letion, RM | Reduced Matrix, N | IS=Mas | ked Sand | Grains. | ² Location: PL=Pore L | _ining, M=Matrix. |
| Histosol | | | Polyvalue Belo | w Surfa | ce (S8) (I | RR R. | | (LRR K, L, MLRA 149B) |
| | pipedon (A2) | | MLRA 149B | | | , | | dox (A16) (LRR K, L, R) |
| | istic (A3) | | Thin Dark Surfa | , |) (LRR R, | MLRA 1 | | or Peat (S3) (LRR K, L, R) |
| Hydroge | en Sulfide (A4) | | High Chroma S | Sands (S | 611) (LRF | R K, L) | Polyvalue Below | Surface (S8) (LRR K, L) |
| Stratifie | d Layers (A5) | | Loamy Mucky I | Mineral | (F1) (LRF | R K, L) | Thin Dark Surface | e (S9) (LRR K, L) |
| | d Below Dark Surface | e (A11) | Loamy Gleyed | | F2) | | | Masses (F12) (LRR K, L, R) |
| | ark Surface (A12) | | Depleted Matrix | | -0) | | | lain Soils (F19) (MLRA 149B) |
| | /lucky Mineral (S1) Gleyed Matrix (S4) | | Redox Dark Su Depleted Dark | ` | , | | Red Parent Mater | (MLRA 144A, 145, 149B) |
| | Redox (S5) | | Redox Depress | | | | Very Shallow Dar | · · · |
| | I Matrix (S6) | | Marl (F10) (LR | | 0) | | Other (Explain in | |
| | rface (S7) | | | . , | | | (| , |
| | | | | | | | | |
| | | | etland hydrology mu | ist be p | resent, ur | less dist | urbed or problematic. | |
| | Layer (if observed): | | | | | | | |
| Туре: | rocky | | | | | | | |
| Depth (i | nches): | 8 | | | | | Hydric Soil Present? | Yes <u>No X</u> |
| | 2015 Errata. (http://w | | | | | | 2.0 to include the NRCS Field 2 2p2_051293.docx) | Indicators of Hydric Soils, |
| | | | | | | | | |
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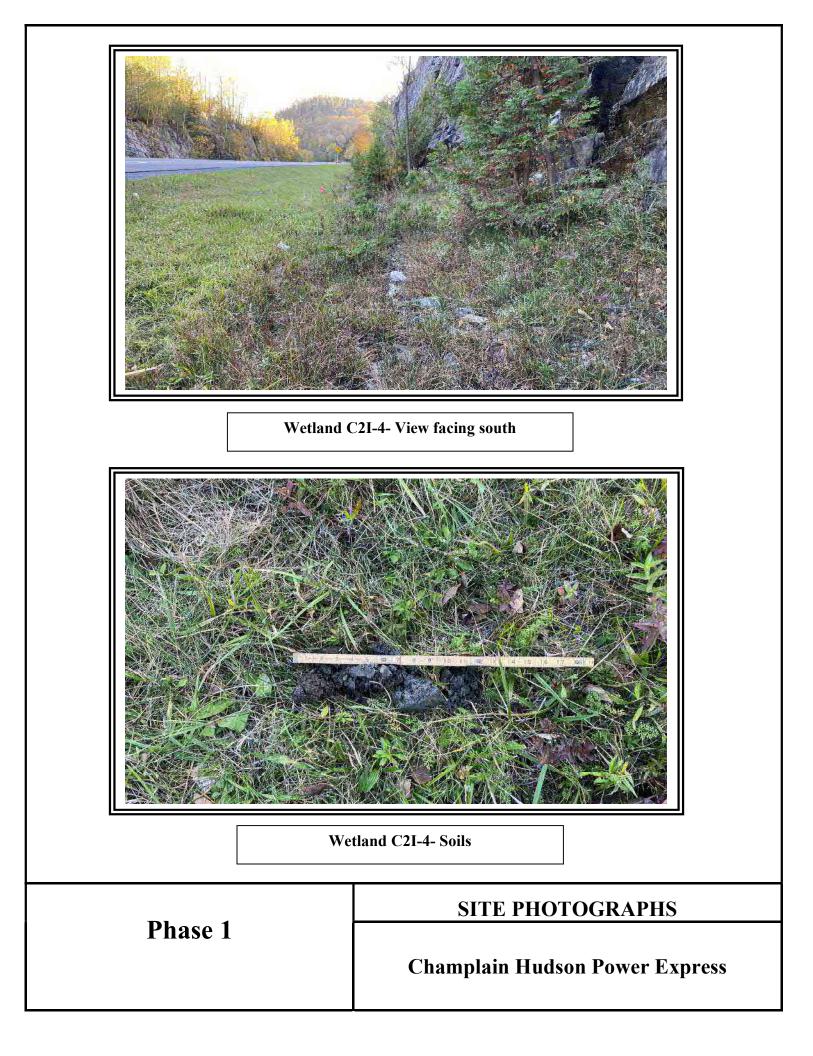
| Project/Site: CHPE | City/County: Dresden/Washington Sampling Date: 10/12/21 |
|--|--|
| Applicant/Owner: TDI | State: NY Sampling Point: C2I-4 wet |
| Investigator(s): N. Frazer, C. Einstein | Section, Township, Range: |
| Landform (hillside, terrace, etc.): ditch | Local relief (concave, convex, none): <u>concave</u> Slope %: <u>0</u> |
| Subregion (LRR or MLRA): LRR R Lat: | 43-41-07.98N Long: <u>73-25-25.64W</u> Datum: |
| Soil Map Unit Name: Hollis-Charlton association | NWI classification: PEM |
| Are climatic / hydrologic conditions on the site typical for t | this time of year? Yes x No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrology | significantly disturbed? Are "Normal Circumstances" present? Yes x No |
| Are Vegetation, Soil, or Hydrology | naturally problematic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map | showing sampling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes X | No Is the Sampled Area |
| Hydric Soil Present? Yes X | No within a Wetland? Yes X No |
| Wetland Hydrology Present? Yes X | No If yes, optional Wetland Site ID: |
| Remarks: (Explain alternative procedures here or in a se Linear vegetated ditch. | eparate report.) |

| Wetland Hydrology Indicators: | | | Secondary Indicators (minimum of two required) |
|--|--|------------------------------|--|
| Primary Indicators (minimum of one is require | Surface Soil Cracks (B6) | | |
| X Surface Water (A1) Water-Stained Leaves (B9) | | | Drainage Patterns (B10) |
| High Water Table (A2) | Aquatic Fauna (B13) | | Moss Trim Lines (B16) |
| Saturation (A3) | Marl Deposits (B15) | | Dry-Season Water Table (C2) |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | | Crayfish Burrows (C8) |
| Sediment Deposits (B2) | X Oxidized Rhizospheres on Living Ro | oots (C3) | Saturation Visible on Aerial Imagery (C9) |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | | Stunted or Stressed Plants (D1) |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils | s (C6) | X Geomorphic Position (D2) |
| Iron Deposits (B5) | Thin Muck Surface (C7) | | X Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7 |) Other (Explain in Remarks) | Microtopographic Relief (D4) | |
| Sparsely Vegetated Concave Surface (B | 8) | | X FAC-Neutral Test (D5) |
| Field Observations: | | | |
| Surface Water Present? Yes x | No Depth (inches): 0.5 | | |
| Water Table Present? Yes | No Depth (inches): | | |
| Saturation Present? Yes | No Depth (inches): | Wetlan | d Hydrology Present? Yes X No |
| (includes capillary fringe) | | | |
| Describe Recorded Data (stream gauge, mo | nitoring well, aerial photos, previous inspe | ctions), if a | available: |
| | | | |
| | | | |
| Remarks: | | | |
| Culvert present. | | | |
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Sampling Point: C2I-4 wet

| | Absolute | Dominant | Indicator | |
|--|--------------|--------------|-----------|---|
| Tree Stratum (Plot size: 30') | % Cover | Species? | Status | Dominance Test worksheet: |
| 1. Thuja occidentalis | 10 | Yes | FACW | Number of Dominant Species |
| 2. <u>Rhus typhina</u> | 2 | No | UPL | That Are OBL, FACW, or FAC:3 (A) |
| 3 | | | | Total Number of Dominant |
| 4 | | | | Species Across All Strata: <u>3</u> (B) |
| 5 | | | | Percent of Dominant Species |
| 6 | | | | That Are OBL, FACW, or FAC: 100.0% (A/B) |
| 7 | | | | Prevalence Index worksheet: |
| | 12 | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 20 x 1 = 20 |
| 1. | | | | FACW species 65 x 2 = 130 |
| 2. | | | | FAC species 15 x 3 = 45 |
| 2 | | | | FACU species 0 x 4 = 0 |
| | | | | UPL species $2 \times 5 = 10$ |
| 5 | | | | Column Totals: 102 (A) 205 (B) |
| | | | | (,(, |
| 6 | | | | Prevalence Index = B/A = 2.01 |
| 7 | | | | Hydrophytic Vegetation Indicators: |
| | | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% |
| 1. Thuja occidentalis | 5 | No | FACW | X_3 - Prevalence Index is ≤3.0 ¹ |
| 2. Lythrum salicaria | 20 | Yes | OBL | 4 - Morphological Adaptations ¹ (Provide supporting |
| 3. Equisetum hyemale | 15 | No | FAC | data in Remarks or on a separate sheet) |
| 4. Juncus torreyi | 45 | Yes | FACW | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. Eupatorium perfoliatum | 5 | No | FACW | ¹ Indicators of hydric soil and wetland hydrology must |
| 6. | | | | be present, unless disturbed or problematic. |
| 7. | | | | Definitions of Vegetation Strata: |
| 8. | | | | |
| 9. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 10. | | | | |
| | | | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. |
| 11 | | | | |
| 12 | 90 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardless |
| Wester | 90 | | | of size, and woody plants less than 3.28 ft tall. |
| <u>Woody Vine Stratum</u> (Plot size: <u>30'</u>) | | | | Woody vines – All woody vines greater than 3.28 ft in |
| 1 | | | | height. |
| 2 | | | | Hydrophytic |
| 3 | | | | Vegetation |
| 4 | | | | Present? Yes X No |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a sepa | rate sheet.) | | | |
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| Profile Desc | ription: (Describe | to the de | pth needed to docu | ument ti | he indica | tor or co | onfirm the absence of | indicators.) | | |
|----------------------------|---|-----------|--------------------------------|-----------|-------------------|------------------|---|---|--|--|
| Depth | Matrix | | Redo | x Featur | res | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | | |
| 0-3 | 10YR 3/1 | 100 | | | | | Sandy | with gravel | | |
| 3-8 | 10YR 5/1 | 90 | 10YR 5/6 | 10 | C | PL/M | Sandy | Prominent redox concentrations | | |
| | | | | | | | | | | |
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| ¹ Type: C=Co | oncentration, D=Depl | etion, RN | /=Reduced Matrix, N | /IS=Mas | ked Sand | Grains. | ² Location: PL | =Pore Lining, M=Matrix. | | |
| Hydric Soil I | | , | , | | | | | r Problematic Hydric Soils ³ : | | |
| Histosol | (A1) | | Polyvalue Belo | ow Surfa | ce (S8) (I | LRR R, | 2 cm Muc | k (A10) (LRR K, L, MLRA 149B) | | |
| Histic Ep | ipedon (A2) | | MLRA 149B | 5) | | | ? Coast Pra | airie Redox (A16) (LRR K, L, R) | | |
| Black His | | | Thin Dark Surf | | | | 149B)5 cm Muc | ky Peat or Peat (S3) (LRR K, L, R) | | |
| | n Sulfide (A4) | | High Chroma S | | | | Polyvalue Below Surface (S8) (LRR K, L) | | | |
| | Layers (A5) | | Loamy Mucky | | | R K, L) | Thin Dark Surface (S9) (LRR K, L) | | | |
| | Below Dark Surface | e (A11) | Loamy Gleyed | | F2) | | | ganese Masses (F12) (LRR K, L, R) | | |
| | irk Surface (A12) | | Depleted Matri | | | | | Floodplain Soils (F19) (MLRA 149B) | | |
| | lucky Mineral (S1) leyed Matrix (S4) | | Redox Dark Su Depleted Dark | • | , | | Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) | | | |
| X Sandy G | | | Redox Depress | | | | Very Shallow Dark Surface (F22) | | | |
| · · | Matrix (S6) | | Marl (F10) (LR | • | 0) | | Other (Explain in Remarks) | | | |
| | face (S7) | | | , =/ | | | | | | |
| | () | | | | | | | | | |
| ³ Indicators of | hydrophytic vegetat | ion and v | vetland hydrology mu | ust be pr | resent, ur | nless dist | urbed or problematic. | | | |
| Restrictive L | ayer (if observed): | | | | | | | | | |
| Type: | roc | k | | | | | | | | |
| Depth (ir | nches): | 8 | | | | | Hydric Soil Present | t? Yes <u>X</u> No | | |
| Remarks: | | | | | | | | | | |
| | | | | | | | | S Field Indicators of Hydric Soils, | | |
| Rock lined di | 2015 Errata. (http://w tch | ww.nrcs. | usda.gov/internet/F | SE_DOU | JUMENT | S/nrcs14 | 2p2_051293.docx) | | | |
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| Project/Site: CHPE | City/Co | unty: Dresden/Washington | Sampling Date: 10/12/21 | | | | |
|---|--------------------------|--|---------------------------|--|--|--|--|
| Applicant/Owner: TDI | | State: NY | Sampling Point: C2J-6 Wet | | | | |
| Investigator(s): <u>N. Frazer, C. Einstein</u> | | Section, Township, Range: | | | | | |
| Landform (hillside, terrace, etc.): flat | Local relief (co | ncave, convex, none): <u>none</u> | Slope %: 0 | | | | |
| Subregion (LRR or MLRA): LRR R | Lat: 43-41-06.09N | Long: 73-25-26.69W | Datum: | | | | |
| Soil Map Unit Name: Hollis-Charlton association | | NWI classification | : PEM | | | | |
| Are climatic / hydrologic conditions on the site typical | for this time of year? | Yes x No (If no, | explain in Remarks.) | | | | |
| Are Vegetation, Soilx_, or Hydrology | significantly disturbed? | Are "Normal Circumstances" pres | sent? Yes <u>x</u> No | | | | |
| Are Vegetation, Soil, or Hydrology | naturally problematic? | (If needed, explain any answers i | n Remarks.) | | | | |
| SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. | | | | | | | |
| Hydrophytic Vegetation Present?YesHydric Soil Present?YesWetland Hydrology Present?Yes | No x within | e Sampled Area n a Wetland? Yes <u>x</u> , optional Wetland Site ID: | No | | | | |
| Remarks: (Evolain alternative procedures here or in |) a senarate report) | | | | | | |

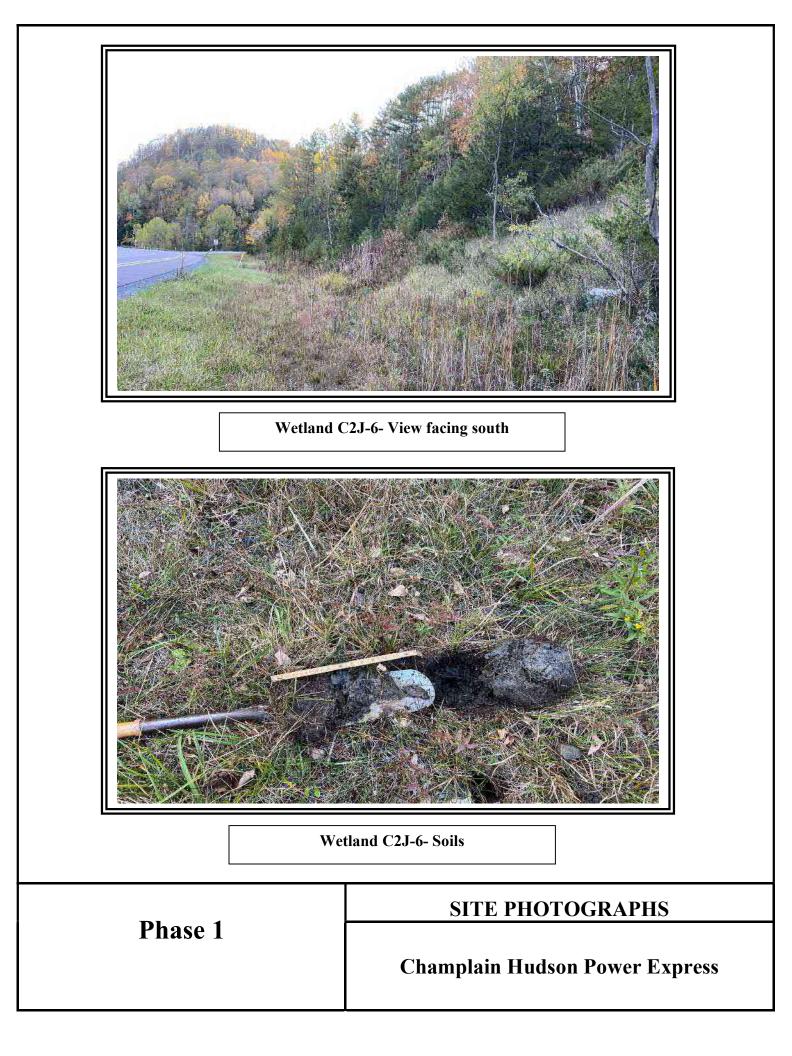
Remarks: (Explain alternative procedures here or in a separate report.) Linear vegetated ditch. Disturbed roadside.

| Wetland Hydrology Indicators: | | Secondary Indicators (minimum of two required) | |
|--|--------------------------|--|--|
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) | | |
| X Surface Water (A1) Water-Stained Leaves (B9) | Drainage Patterns (B10) | | |
| High Water Table (A2) Aquatic Fauna (B13) | | Moss Trim Lines (B16) | |
| X Saturation (A3) Marl Deposits (B15) | | Dry-Season Water Table (C2) | |
| Water Marks (B1) Hydrogen Sulfide Odor (C1) | | Crayfish Burrows (C8) | |
| Sediment Deposits (B2) Oxidized Rhizospheres on Living Ro | oots (C3) | Saturation Visible on Aerial Imagery (C9) | |
| Drift Deposits (B3) Presence of Reduced Iron (C4) | | Stunted or Stressed Plants (D1) | |
| Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soil | s (C6) | X Geomorphic Position (D2) | |
| Iron Deposits (B5) Thin Muck Surface (C7) | | X Shallow Aquitard (D3) | |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) | | | |
| Sparsely Vegetated Concave Surface (B8) | | X FAC-Neutral Test (D5) | |
| Field Observations: | | | |
| Surface Water Present? Yes x No Depth (inches): 1 | | | |
| Water Table Present? Yes No x Depth (inches): | | | |
| Saturation Present? Yes x No Depth (inches): 0 | Wetlan | d Hydrology Present? Yes X No | |
| (includes capillary fringe) | | ······································ | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspe | ections), if | available: | |
| | , | | |
| | | | |
| Remarks: | | | |
| Stream present. Culvert under Route 22 present. Wetland contains a seep. | | | |
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Sampling Point: C2J-6 Wet

| Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|---------------------|---|---------------------|--|
| 5 | Yes | FACW | Number of Dominant Species |
| | | | 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 Are OBL, FACW, or FAC: 100.0% (A/B |
| | · | | Prevalence Index worksheet: |
| 5 | =Total Cover | | Total % Cover of: Multiply by: |
|) | | | OBL species X 1 = 37 |
| 5 | Yes | FACW | FACW species 45 x 2 = 90 |
| | | | FAC species <u>17</u> x 3 = <u>51</u> |
| | | | FACU species x 4 = |
| _ | | | UPL species x 5 = |
| _ | | | Column Totals:99 (A)178 (E |
| | | | Prevalence Index = B/A =1.80 |
| _ | | | Hydrophytic Vegetation Indicators: |
| 5 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| | | | X 2 - Dominance Test is >50% |
| 25 | Yes | OBL | X 3 - Prevalence Index is $≤3.0^{1}$ |
| 15 | No | FAC | 4 - Morphological Adaptations ¹ (Provide supporti |
| 10 | No | OBL | data in Remarks or on a separate sheet) |
| 5 | No | FACW | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 2 | No | OBL | ¹ Indicators of hydric soil and wetland hydrology must |
| 25 | Yes | FACW | be present, unless disturbed or problematic. |
| 5 | No | FACW | Definitions of Vegetation Strata: |
| 2 | No | FAC | Tree – Woody plants 3 in. (7.6 cm) or more in |
| | | | diameter at breast height (DBH), regardless of height |
| | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| <u> </u> | | | and greater than or equal to 3.28 ft (1 m) tall. |
| | | | Herb – All herbaceous (non-woody) plants, regardles |
| 89 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
|) | | | Woody vines – All woody vines greater than 3.28 ft i |
| | | | height. |
| _ | | | |
| | | | Libraha an Instation |
| | | | Hydrophytic Vegetation |
| | · | | Vegetation Present? Yes X No |
| | 5 5 5 5 5 25 15 10 5 2 25 5 2 25 5 2 25 5 2 25 5 2 25 5 2 25 5 2 25 5 2 25 5 2 25 5 2 25 5 2 25 5 2 25 5 2 2 5 2 25 5 2 25 5 2 25 5 2 2 5 2 2 5 5 2 2 5 2 2 5 5 2 2 5 2 2 5 5 2 2 5 5 2 2 5 2 2 5 2 2 5 5 2 2 5 2 2 5 2 2 5 2 2 5 2 2 5 2 2 5 2 2 5 2 2 5 2 2 5 2 2 5 2 2 5 2 2 5 2 2 5 2 2 5 2 2 5 2 2 5 5 2 5 5 2 5 5 2 5 5 2 5 5 2 5 5 2 5 5 2 5 5 2 5 5 2 5 5 2 5 5 2 5 5 2 5 5 5 2 5 5 2 5 5 2 5 5 2 5 5 5 2 5 5 2 5 5 5 2 5 5 5 2 5 5 5 5 5 2 5 5 5 5 5 5 5 5 | | 5 Yes FACW 5 Yes FACW 5 =Total Cover |

| Profile Des | cription: (Describe | to the de | pth needed to docu | ıment t | he indica | tor or co | onfirm the absence of | indicators.) |
|--|--|------------------------|---|---|---|---|--|--------------|
| Depth | Matrix | | Redox | k Featur | res | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-4 | 10YR 2/1 | 100 | | | | | Loamy/Clayey | with gravel |
| 4-8 | 10YR 4/1 | 100 | | | | | Sandy | |
| ¹ Type: C=C Hydric Soil Histosol Histosol Histic E Black H Hydroge Stratifie Deplete Thick D Sandy N Sandy C Sandy F Strippec Dark Su ³ Indicators c Restrictive Type: Depth (i Remarks: This data for | oncentration, D=Depl Indicators: (A1) bipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Bleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) f hydrophytic vegetat Layer (if observed): rock/gu nches): | letion, RM | Polyvalue Belo MLRA 149B Thin Dark Surfa High Chroma S Loamy Mucky I Loamy Gleyed Depleted Matrix Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR vetland hydrology mu | w Surfa) ace (S9 Gands (S Mineral Matrix (x (F3) Irface (F Surface sions (F R K, L) Ist be pr onal Su | (ICR (S8) (I) (LRR R S11) (LRI (F1) (LRI (F2) =6) ∋ (F7) 8) resent, ur | LRR R, MLRA ^A R K, L) R K, L) hless dist | 2 cm Muc 2 cm M | |



| Project/Site: CHPE | | City | /County: Dresder | n/Washington | | Sampling Date: | 10/12/21 |
|--|--------------------------|--------------------------|------------------|-----------------------|-----------|--------------------|------------|
| Applicant/Owner: TDI | | | | State: | NY | Sampling Point: | C2-K-2 Wet |
| Investigator(s): N. Frazer, C. Einstei | in | | Section, Tov | vnship, Range: | | | |
| Landform (hillside, terrace, etc.): | lat | Local relief | (concave, conve | x, none): <u>none</u> | | Slope | %: 0 |
| Subregion (LRR or MLRA): LRR R | Lat: | 43-41-04.96N | Long: | 73-25-27.24W | | Datum: | |
| Soil Map Unit Name: Charlton soils NWI classification: PEM | | | | | | | |
| Are climatic / hydrologic conditions of | n the site typical for t | this time of year? | Yes x | No | (lf no, e | explain in Remarks | .) |
| Are Vegetation, Soil, | or Hydrology | significantly disturbed? | Are "Norm | al Circumstanc | es" prese | ent? Yes <u>x</u> | No |
| Are Vegetation, Soil, | or Hydrology | naturally problematic? | (If needed | , explain any an | nswers in | Remarks.) | |
| SUMMARY OF FINDINGS - | Attach site map | showing samplin | g point locat | ions, transe | cts, im | portant featur | es, etc. |
| Hydrophytic Vegetation Present? | Yes X | No Is | the Sampled Ar | ea | | | |
| Hydric Soil Present? | Yes X | No w | ithin a Wetland? | Yes | <u>х</u> | No | |
| Wetland Hydrology Present? | Yes X | No If | yes, optional We | tland Site ID: | | | |
| Remarks: (Explain alternative proce Northern Wetland K. Linear vegetate | | eparate report.) | | | | | |
| | | | | | | | |

| Wetland Hydrology Indicators: | | | Secondary Indicators (minimum of two required) |
|---|--|------------------------------|--|
| Primary Indicators (minimum of one is require | Surface Soil Cracks (B6) | | |
| Surface Water (A1) | Drainage Patterns (B10) | | |
| X High Water Table (A2) | Moss Trim Lines (B16) | | |
| X Saturation (A3) | Marl Deposits (B15) | | Dry-Season Water Table (C2) |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | | Crayfish Burrows (C8) |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living R | oots (C3) | Saturation Visible on Aerial Imagery (C9) |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | | Stunted or Stressed Plants (D1) |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soil | s (C6) | X Geomorphic Position (D2) |
| Iron Deposits (B5) | Thin Muck Surface (C7) | | X Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) | | Microtopographic Relief (D4) | |
| Sparsely Vegetated Concave Surface (B | 8) | | X FAC-Neutral Test (D5) |
| Field Observations: | | | |
| Surface Water Present? Yes | No x Depth (inches): | | |
| Water Table Present? Yes x | No Depth (inches): 4 | | |
| Saturation Present? Yes x | No Depth (inches): 0 | Wetlan | d Hydrology Present? Yes X No |
| (includes capillary fringe) | | | |
| Describe Recorded Data (stream gauge, mor | nitoring well, aerial photos, previous inspe | ections), if | available: |
| | | | |
| | | | |
| Remarks: | | | |
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Sampling Point: C2-K-2 Wet

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|--|---------------------|----------------------|---------------------|--|
| 1. Thuja occidentalis | 5 | Yes | FACW | Number of Deminent Creation |
| 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A) |
| 3 4. | | | | Total Number of Dominant |
| | | | | Species Across All Strata: <u>6</u> (B) |
| 5 5 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC:66.7% (A/ |
| 7 | _ | | | Prevalence Index worksheet: |
| | 5 | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15' |) | | | OBL species 45 x 1 = 45 |
| Betula populifolia | 5 | Yes | FAC | FACW species $45 \times 2 = 90$ |
| 2. Juniperus virginiana | 5 | Yes | FACU | FAC species 15 x 3 = 45 |
| | | | | FACU species 10 x 4 = 40 |
| | | | | UPL species $5 \times 5 = 25$ |
| | | | | Column Totals: 120 (A) 245 (|
| | | | | Prevalence Index = $B/A = 2.04$ |
| | | | | Hydrophytic Vegetation Indicators: |
| | 10 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| | 10 | | | |
| lerb Stratum (Plot size: 5') | 05 | | 54.014 | X 2 - Dominance Test is >50% |
| Juncus torreyi | 35 | Yes | FACW | X 3 - Prevalence Index is ≤3.0 ¹ |
| Lythrum salicaria | 40 | Yes | OBL | 4 - Morphological Adaptations ¹ (Provide support data in Remarks or on a separate sheet) |
| . Fragaria virginiana | 5 | No | FACU | |
| . Galium boreale | 10 | No | FAC | Problematic Hydrophytic Vegetation ¹ (Explain) |
| . Sphagnum moss sp. | 30 | Yes | | ¹ Indicators of hydric soil and wetland hydrology mus |
| Salix nigra | 5 | No | OBL | be present, unless disturbed or problematic. |
| . Eupatorium perfoliatum | 5 | No | FACW | Definitions of Vegetation Strata: |
| Vicia cracca | 5 | No | UPL | Tree – Woody plants 3 in. (7.6 cm) or more in |
| | | | | diameter at breast height (DBH), regardless of heigh |
| 0 | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 1 | _ | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 2 | | | | Herb – All herbaceous (non-woody) plants, regardle |
| | 135 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| <u>Voody Vine Stratum</u> (Plot size: <u>30'</u> |) | | | Woody vines – All woody vines greater than 3.28 ft height. |
| | | | | |
| | | | | Hydrophytic |
| | | | | Vegetation Present? Yes X No |
| · | | =Total Cover | | |
| | | | | |

| Profile Desc | ription: (Describe | to the de | epth needed to docu | ument t | he indica | tor or co | onfirm the absence of indi | cators.) |
|---------------|-----------------------------|-----------|---|-----------------|-------------------|------------------|------------------------------|--|
| Depth | Matrix | | Redo | x Featur | es | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-4 | 10YR 2/2 | 100 | | | | | Muck | |
| 4-8 | 10YR 2/1 | 100 | | | | | Sandy | masked sand |
| 8-12 | N 3/ | 100 | | | | | Sandy | |
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| | | | M=Reduced Matrix, N | | kod Sono | Craina | ² Location: DL-Da | re Lining, M=Matrix. |
| Hydric Soil | | | | /10-1vias | Keu Sand | Giains. | | oblematic Hydric Soils ³ : |
| Histosol | | | Polyvalue Belo | w Surfa | ce (S8) (I | RR R. | | 10) (LRR K, L, MLRA 149B) |
| | pipedon (A2) | | MLRA 149B | | () (- | , | | Redox (A16) (LRR K, L, R) |
| Black Hi | | | X Thin Dark Surf | , ace (S9 |) (LRR R | MLRA 1 | | Peat or Peat (S3) (LRR K, L, R) |
| Hydroge | n Sulfide (A4) | | High Chroma S | Sands (S | 611) (LRF | R K, L) | Polyvalue Bel | ow Surface (S8) (LRR K, L) |
| Stratified | l Layers (A5) | | Loamy Mucky | Mineral | (F1) (LRI | R K, L) | Thin Dark Su | face (S9) (LRR K, L) |
| Depleted | Below Dark Surface | e (A11) | Loamy Gleyed | Matrix (| F2) | | Iron-Mangane | se Masses (F12) (LRR K, L, R) |
| Thick Da | ark Surface (A12) | | Depleted Matri | x (F3) | | | Piedmont Flo | odplain Soils (F19) (MLRA 149B) |
| Sandy M | lucky Mineral (S1) | | Redox Dark Su | urface (F | 6) | | Mesic Spodic | (TA6) (MLRA 144A, 145, 149B) |
| Sandy G | ileyed Matrix (S4) | | Depleted Dark | Surface | e (F7) | | Red Parent N | aterial (F21) |
| Sandy R | edox (S5) | | Redox Depress | sions (F | 8) | | Very Shallow | Dark Surface (F22) |
| Stripped | Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other (Explain | n in Remarks) |
| ? Dark Su | face (S7) | | | | | | | |
| 3 | | | | | | | | |
| | | | wetland hydrology mu | ist be pi | resent, ur | iless dist | urbed or problematic. | |
| Type: | _ayer (if observed): roc | | | | | | | |
| Depth (ir | | 12 | | | | | Hydric Soil Present? | Yes X No |
| Remarks: | , | | | | | | , | |
| This data for | | | al and Northeast Reg .usda.gov/Internet/FS | | | | | eld Indicators of Hydric Soils, |
| | | | U U | _ | | | , | |
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Wetland C2K-2 (northern)- View facing south



Wetland C2K-2 (northern)- Soils

Phase 1

SITE PHOTOGRAPHS

Champlain Hudson Power Express

| Project/Site: CHPE | City/County: Dresden/Washington Sampling Date: 10/12/21 |
|---|---|
| Applicant/Owner: TDI | State: NY Sampling Point: C2I-4 Upl* |
| Investigator(s): N. Frazer, C. Einstein | Section, Township, Range: |
| Landform (hillside, terrace, etc.): flat | Local relief (concave, convex, none): none Slope %: 0 |
| Subregion (LRR or MLRA): LRR R Lat: 43-41-07.98 | 3N Long: 73-25-25.64W Datum: |
| Soil Map Unit Name: Hollis-Charlton association | NWI classification: N/A |
| Are climatic / hydrologic conditions on the site typical for this time of y | rear? Yes x No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly | disturbed? Are "Normal Circumstances" present? Yes x No |
| Are Vegetation, Soil, or Hydrologynaturally pro | oblematic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing | sampling point locations, transects, important features, etc. |

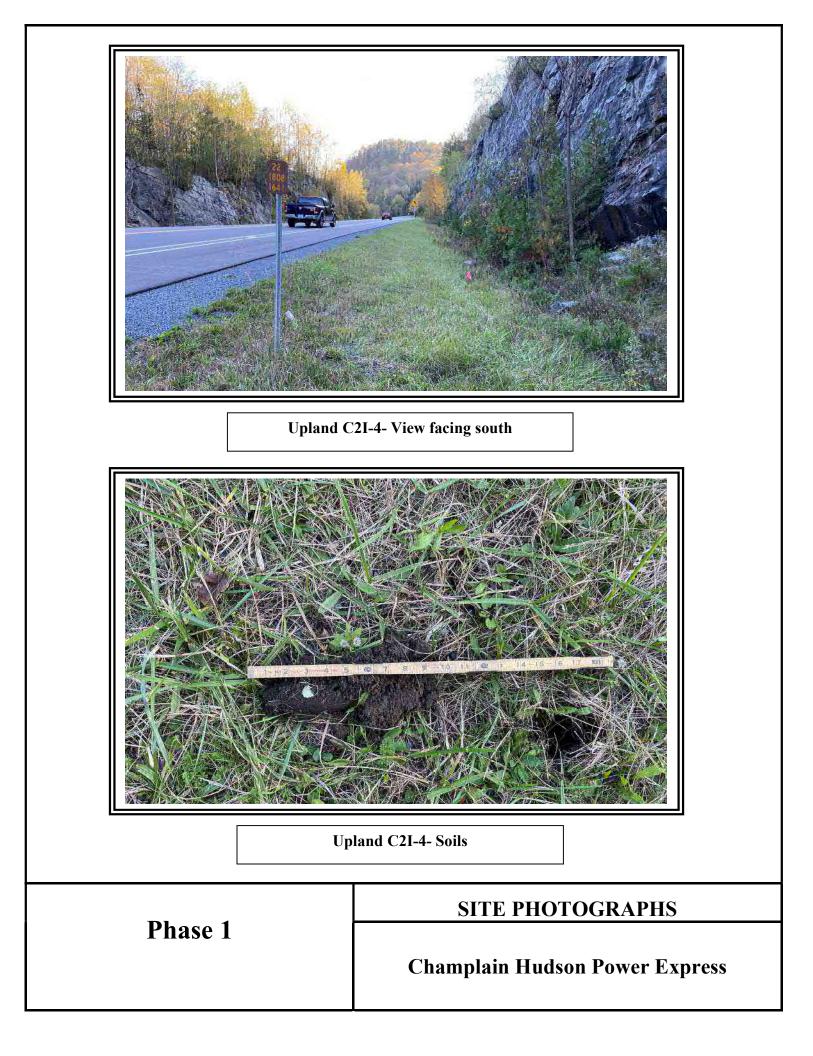
| Hydrophytic Vegetation Present? | Yes | No X | Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: |
|--|-----|------|--|
| Hydric Soil Present? | Yes | No X | |
| Wetland Hydrology Present? | Yes | No X | |
| Remarks: (Explain alternative procedu Mowed roadside. * Upland points for C | | , | |

| Wetland Hydrology Indicators: | | Secondary Indicators (minimum of two required) | | | | | |
|--|---|--|--|--|--|--|--|
| Primary Indicators (minimum of one is requir | Surface Soil Cracks (B6) | | | | | | |
| Surface Water (A1) | Water-Stained Leaves (B9) | Drainage Patterns (B10) | | | | | |
| High Water Table (A2) | Aquatic Fauna (B13) | Moss Trim Lines (B16) | | | | | |
| Saturation (A3) | Marl Deposits (B15) | Dry-Season Water Table (C2) | | | | | |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | Crayfish Burrows (C8) | | | | | |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Roots (C3) | Saturation Visible on Aerial Imagery (C9) | | | | | |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | Stunted or Stressed Plants (D1) | | | | | |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils (C6) | Geomorphic Position (D2) | | | | | |
| Iron Deposits (B5) | Thin Muck Surface (C7) | Shallow Aquitard (D3) | | | | | |
| Inundation Visible on Aerial Imagery (B7 |) Other (Explain in Remarks) | Microtopographic Relief (D4) | | | | | |
| Sparsely Vegetated Concave Surface (E | 8) | FAC-Neutral Test (D5) | | | | | |
| Field Observations: | | | | | | | |
| Surface Water Present? Yes | No x Depth (inches): | | | | | | |
| Water Table Present? Yes | No x Depth (inches): | | | | | | |
| Saturation Present? Yes | | nd Hydrology Present? Yes No X | | | | | |
| (includes capillary fringe) | | | | | | | |
| Describe Recorded Data (stream gauge, mo | nitoring well, aerial photos, previous inspections), if | available: | | | | | |
| | | | | | | | |
| | | | | | | | |
| Remarks: | | | | | | | |
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Sampling Point: C2I-4 UpI*

| Tree Stratum (Plot size:30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|---|---------------------|----------------------|---------------------|---|
| 1. 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC:0(A) |
| 3 4 | | | | Total Number of Dominant Species Across All Strata:1(B) |
| 5. 6. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC:0.0% (A/B) |
| 7 | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species x 1 =0 |
| 1 | | | | FACW species 0 x 2 = 0 |
| 2. | | | | FAC species 5 x 3 = 15 |
| 3. | | | | FACU species 100 x 4 = 400 |
| | | | | UPL species 5 x 5 = 25 |
| 4 5. | | | | Column Totals: 110 (A) 440 (B) |
| 6 | | | | Prevalence Index = $B/A = 4.00$ |
| 7 | | | | Hydrophytic Vegetation Indicators: |
| /· | | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Light Chartery (Distainer 51) | | | | |
| Herb Stratum (Plot size: 5') | 45 | | FAOL | 2 - Dominance Test is >50% |
| 1. Plantago lanceolata | | No | FACU | 3 - Prevalence Index is ≤3.0 ¹ |
| 2. Lotus corniculatus | | No | FACU | 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) |
| 3. <u>Poa pratensis</u> | 70 | Yes | FACU | |
| 4. Daucus carota | 5 | No | UPL | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. Taraxacum officinale | 5 | No | FACU | ¹ Indicators of hydric soil and wetland hydrology must |
| 6. Galium boreale | 5 | No | FAC | be present, unless disturbed or problematic. |
| 7 | | | | Definitions of Vegetation Strata: |
| 8 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in |
| 9 | | | | diameter at breast height (DBH), regardless of height. |
| 10. | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 12. | | | | |
| | 110 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | |
| 1, | | | | Woody vines – All woody vines greater than 3.28 ft in height. |
| | | | | |
| | | | | Hydrophytic |
| 3 4. | | | | Vegetation Present? Yes No X |
| + | | =Total Cover | | Present? Yes <u>No X</u> |
| | | - I otal Cover | | |
| Remarks: (Include photo numbers here or on a sepa | rate sheet.) | | | |
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| Profile Des | cription: (Describe | to the de | oth needed to doc | ument t | he indica | tor or c | confirm the absence of indicators.) | | |
|------------------------|-----------------------|------------|---------------------|-----------|-------------------|------------------|---|--|--|
| Depth | Matrix | | Redo | x Featu | res | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture Remarks | | |
| 0-3 | 10YR 2/1 | 100 | | | | | Sandy roadside fill | | |
| 3-8 | 10YR 3/2 | 100 | | | | | Sandy roadside fill | | |
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| ¹ Type: C=C | oncentration, D=Dep | letion, RM | Reduced Matrix, N | MS=Mas | ked Sanc | Grains. | . ² Location: PL=Pore Lining, M=Matrix. | | |
| Hydric Soil | | · · · · · | · · · | | | | Indicators for Problematic Hydric Soils ³ : | | |
| Histosol | | | Polyvalue Belo | ow Surfa | ace (S8) (I | LRR R, | 2 cm Muck (A10) (LRR K, L, MLRA 149B) | | |
| Histic E | pipedon (A2) | | MLRA 1498 | 8) | | | Coast Prairie Redox (A16) (LRR K, L, R) | | |
| Black H | istic (A3) | | Thin Dark Surf | face (S9 |) (LRR R | , MLRA | 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) | | |
| Hydroge | en Sulfide (A4) | | High Chroma | Sands (| S11) (LRF | R K, L) | Polyvalue Below Surface (S8) (LRR K, L) | | |
| Stratifie | d Layers (A5) | | Loamy Mucky | Mineral | (F1) (LR | R K, L) | Thin Dark Surface (S9) (LRR K, L) | | |
| Deplete | d Below Dark Surfac | e (A11) | Loamy Gleyed | Matrix | (F2) | | Iron-Manganese Masses (F12) (LRR K, L, R | | |
| Thick D | ark Surface (A12) | | Depleted Matr | ix (F3) | | | Piedmont Floodplain Soils (F19) (MLRA 1498 | | |
| Sandy M | /lucky Mineral (S1) | | Redox Dark S | urface (I | =6) | | Mesic Spodic (TA6) (MLRA 144A, 145, 149B | | |
| Sandy C | Gleyed Matrix (S4) | | Depleted Dark | Surface | e (F7) | | Red Parent Material (F21) | | |
| Sandy F | Redox (S5) | | Redox Depres | sions (F | 8) | | Very Shallow Dark Surface (F22) | | |
| Stripped | d Matrix (S6) | | Marl (F10) (LF | RR K, L) | | | Other (Explain in Remarks) | | |
| Dark Su | ırface (S7) | | | | | | | | |
| 2 | | | | | | | | | |
| | | | etland hydrology m | ust be p | resent, ur | iless dist | sturbed or problematic. | | |
| | Layer (if observed): | | | | | | | | |
| Туре: | rock/g | | | | | | | | |
| Depth (i | nches): | 8 | | | | | Hydric Soil Present? Yes No X | | |
| Remarks: | | | | | | | | | |
| | | | | | | | n 2.0 to include the NRCS Field Indicators of Hydric Soils, | | |
| Version 7.0, | 2015 Errata. (http:// | www.nrcs.u | usda.gov/Internet/F | SE_DO | CUMENT | S/nrcs14 | 42p2_051293.docx) | | |
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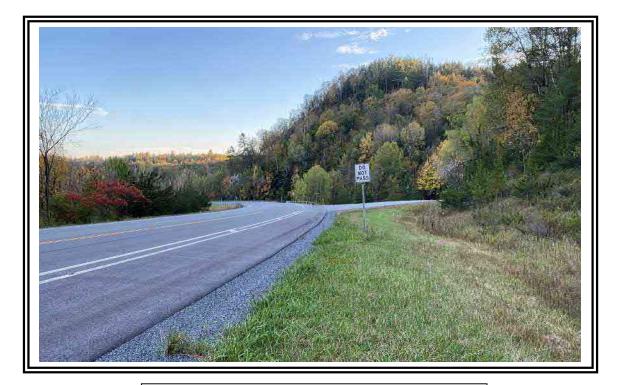


Upland C2J-6- View facing north

Phase 1

SITE PHOTOGRAPHS

Champlain Hudson Power Express



Upland C2K-2 (northern)- View facing south

Phase 1

SITE PHOTOGRAPHS

Champlain Hudson Power Express

| Project/Site: CHPE | City/County: Dresden/Washington | Sampling Date: 10/13/21 |
|---|---|----------------------------|
| Applicant/Owner: TDI | State: NY | Sampling Point: C2K-22 wet |
| Investigator(s): N. Frazer, S. Berryman | Section, Township, Range: | |
| Landform (hillside, terrace, etc.): hillslope | Local relief (concave, convex, none): concave | Slope %: 0 |
| Subregion (LRR or MLRA): LRR R | Lat: <u>43-40-49.5N</u> Long: <u>73-25-11.38W</u> | Datum: |
| Soil Map Unit Name: Vergennes silty clay | NWI classification: | PFO |
| Are climatic / hydrologic conditions on the site typi | al for this time of year? Yes <u>x</u> No (If no, | explain in Remarks.) |
| Are Vegetation, Soil, or Hydrology | significantly disturbed? Are "Normal Circumstances" pres | ent? Yes <u>x</u> No |
| Are Vegetation, Soil, or Hydrology | naturally problematic? (If needed, explain any answers in | n Remarks.) |
| SUMMARY OF FINDINGS – Attach site | map showing sampling point locations, transects, in | portant features, etc. |
| Hydrophytic Vegetation Present? Yes | X No Is the Sampled Area | |
| Hydric Soil Present? Yes | X No within a Wetland? Yes X | No |
| Wetland Hydrology Present? Yes | X No If yes, optional Wetland Site ID: | |
| Remarks: (Explain alternative procedures here o Wetland K- southern. Forested drainage channel | in a separate report.) | |
| | | |

| Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) | 1) | | |
|---|---------------------------|--|--|
| Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) | Surface Soil Cracks (B6) | | |
| Surface Water (A1) Water-Stained Leaves (B9) X Drainage Patterns (B10) | X Drainage Patterns (B10) | | |
| High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) | | | |
| Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) | | | |
| Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) | | | |
| Sediment Deposits (B2) X Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) | | | |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) | | | |
| Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) | | | |
| Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) | | | |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) | | | |
| Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5) | | | |
| Field Observations: | | | |
| Surface Water Present? Yes No x Depth (inches): | | | |
| Water Table Present? Yes No x Depth (inches): | | | |
| Saturation Present? Yes No x Depth (inches): Wetland Hydrology Present? Yes X No | | | |
| (includes capillary fringe) | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | |
| | | | |
| Remarks: | | | |
| Flows to culvert under Route 22. | | | |
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Sampling Point: C2K-22 wet

| Tree Stratum (Plot size:30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | | | |
|---------------------------------------|---------------------|----------------------|---------------------|--|--|--|--|
| 1. Ulmus americana | 50 | Yes | FACW | Number of Dominant Species | | | |
| 2. Tsuga canadensis | 10 | No | FACU | That Are OBL, FACW, or FAC: 6 (A) | | | |
| 3. Acer saccharum | 5 | No | FACU | Total Number of Dominant | | | |
| 4. | | | | Total Number of Dominant Species Across All Strata: 7 (B) | | | |
| 5. | | | | | | | |
| 6. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 85.7% (A/E | | | |
| 7. | | | | Prevalence Index worksheet: | | | |
| | 65 | =Total Cover | | Total % Cover of: Multiply by: | | | |
| Sapling/Shrub Stratum (Plot size: 15' |) | - | | OBL species 0 x 1 = 0 | | | |
| 1. Ulmus americana | , 5 | Yes | FACW | FACW species 110 x 2 = 220 | | | |
| 2. Fraxinus pennsylvanica | 5 | Yes | FACW | FAC species $23 \times 3 = 69$ | | | |
| 3. Cornus amomum | - <u> </u> | Yes | FACW | FACU species $21 \times 4 = 84$ | | | |
| 4. | | | 1700 | $\frac{1}{1} \frac{1}{1} \frac{1}$ | | | |
| 5 | • | | | Column Totals: 154 (A) 373 (E | | | |
| | • | | | | | | |
| 5 | · | - <u> </u> | | Prevalence Index = B/A = 2.42 | | | |
| 7 | | - <u></u> | | Hydrophytic Vegetation Indicators: | | | |
| | 20 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation | | | |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% | | | |
| 1. Onoclea sensibilis | 35 | Yes | FACW | X_3 - Prevalence Index is ≤3.0 ¹ | | | |
| 2. <u>Equisetum hyemale</u> | 10 | No | FAC | 4 - Morphological Adaptations ¹ (Provide supportindata in Remarks or on a separate sheet) | | | |
| 3. Toxicodendron radicans | 1 | No | FAC | - | | | |
| 4. Cornus amomum | 5 | No | FACW | Problematic Hydrophytic Vegetation ¹ (Explain) | | | |
| 5. Equisetum arvense | 2 | No | FAC | ¹ Indicators of hydric soil and wetland hydrology must | | | |
| 6. Acer saccharum | 1 | No | FACU | be present, unless disturbed or problematic. | | | |
| 7 | | | | Definitions of Vegetation Strata: | | | |
| 8 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in | | | |
| 9. | | | | diameter at breast height (DBH), regardless of heigh | | | |
| 10 | | | | Sapling/shrub – Woody plants less than 3 in. DBH | | | |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. | | | |
| 12 | | | | Herb – All herbaceous (non-woody) plants, regardles | | | |
| | 54 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. | | | |
| Woody Vine Stratum (Plot size: 30' |) | | | Woody vines – All woody vines greater than 3.28 ft | | | |
| 1. Vitis aestivalis | 5 | Yes | FACU | height. | | | |
| 2. Toxicodendron radicans | 10 | Yes | FAC | | | | |
| 3. | | | | Hydrophytic Vegetation | | | |
| 4. | | | | Present? Yes X No | | | |
| | 15 | =Total Cover | | | | | |

SOIL

| Profile Desc | cription: (Describe | to the de | pth needed to doc | ument ti | he indica | ator or co | onfirm the absence o | of indicators.) |
|------------------------|---|------------|------------------------|-----------|-------------------|---------------------|--------------------------|--|
| Depth | Matrix | | Redo | x Featur | es | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-10 | 10YR 2/1 | 95 | 10YR 4/2 | 5 | C | M | Loamy/Clayey | Faint redox concentrations |
| 10-13 | 10YR 4/2 | 74 | 10YR 4/4 | 15 | C | M | Loamy/Clayey | Distinct redox concentrations |
| | | | 10YR 5/8 | 1 | С | PL/M | | Prominent redox concentrations |
| | | | 10YR 3/2 | 10 | С | М | | Faint redox concentrations |
| | | | | | | | | |
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| | | | | | | | | |
| ¹ Type: C=C | oncentration, D=Dep | letion, RM | l=Reduced Matrix, N | /IS=Mas | ked Sand | d Grains. | ² Location: F | PL=Pore Lining, M=Matrix. |
| Hydric Soil | Indicators: | | | | | | Indicators f | or Problematic Hydric Soils ³ : |
| Histosol | (A1) | | Polyvalue Belo | w Surfa | ce (S8) (| LRR R, | 2 cm Mu | uck (A10) (LRR K, L, MLRA 149B) |
| Histic E | pipedon (A2) | | MLRA 149B |) | | | Coast P | rairie Redox (A16) (LRR K, L, R) |
| Black Hi | istic (A3) | | Thin Dark Surf | ace (S9 |) (LRR R | , MLRA [·] | 149B)5 cm Μι | ucky Peat or Peat (S3) (LRR K, L, R) |
| Hydroge | en Sulfide (A4) | | High Chroma S | Sands (S | 611) (LRI | R K, L) | Polyvalu | ue Below Surface (S8) (LRR K, L) |
| Stratified | d Layers (A5) | | Loamy Mucky | Mineral | (F1) (LR | R K, L) | Thin Da | rk Surface (S9) (LRR K, L) |
| X Deplete | d Below Dark Surface | e (A11) | Loamy Gleyed | Matrix (| F2) | | Iron-Mai | nganese Masses (F12) (LRR K, L, R) |
| Thick Da | ark Surface (A12) | | Depleted Matri | x (F3) | | | Piedmo | nt Floodplain Soils (F19) (MLRA 149B) |
| Sandy N | /lucky Mineral (S1) | | Redox Dark Su | urface (F | 6) | | Mesic S | podic (TA6) (MLRA 144A, 145, 149B) |
| Sandy G | Gleyed Matrix (S4) | | Depleted Dark | Surface | (F7) | | Red Par | rent Material (F21) |
| Sandy F | Redox (S5) | | Redox Depres | sions (F | 8) | | Very Sh | allow Dark Surface (F22) |
| Stripped | l Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other (E | Explain in Remarks) |
| Dark Su | rface (S7) | | | | | | | |
| | | | | | | | | |
| | | | etland hydrology mi | ust be pi | resent, u | nless dist | turbed or problematic. | |
| | Layer (if observed): | | | | | | | |
| Type: | roc | | | | | | | |
| Depth (i | nches): | 13 | | | | | Hydric Soil Prese | nt? Yes <u>X</u> No |
| Remarks: | | | | | | | | |
| | rm is revised from No 2015 Errata. (http://v | | | | | | | CS Field Indicators of Hydric Soils, |
| | | ww.mcs. | usua.gov/internet/F | | | 3/11/05/14 | ·2p2_051295.000x) | |
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Wetland C2K-22 (southern)- View facing northeast



Wetland C2K-22 (southern)- Soils

Phase 1

SITE PHOTOGRAPHS

Champlain Hudson Power Express

| Project/Site: CHPE | City/County: Dresden/Washington Sampling Date: 10/13/21 | | | | | |
|---|---|--|--|--|--|--|
| Applicant/Owner: TDI | State: NY Sampling Point: C2K-22 Upl | | | | | |
| Investigator(s): N. Frazer, S. Berryman | Section, Township, Range: | | | | | |
| Landform (hillside, terrace, etc.): flat Loca | I relief (concave, convex, none): none Slope %: 0 | | | | | |
| Subregion (LRR or MLRA): LRR R Lat: 43-40-49.5N | Long: 73-25-11.38W Datum: | | | | | |
| Soil Map Unit Name: Vergennes silty clay | NWI classification: N/A | | | | | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes x No (If no, explain in Remarks.) | | | | | |
| Are Vegetation, Soil, or Hydrologysignificantly distu | rrbed? Are "Normal Circumstances" present? Yes x No | | | | | |
| Are Vegetation, Soil, or Hydrologynaturally problem | natic? (If needed, explain any answers in Remarks.) | | | | | |
| SUMMARY OF FINDINGS – Attach site map showing sam | npling point locations, transects, important features, etc. | | | | | |

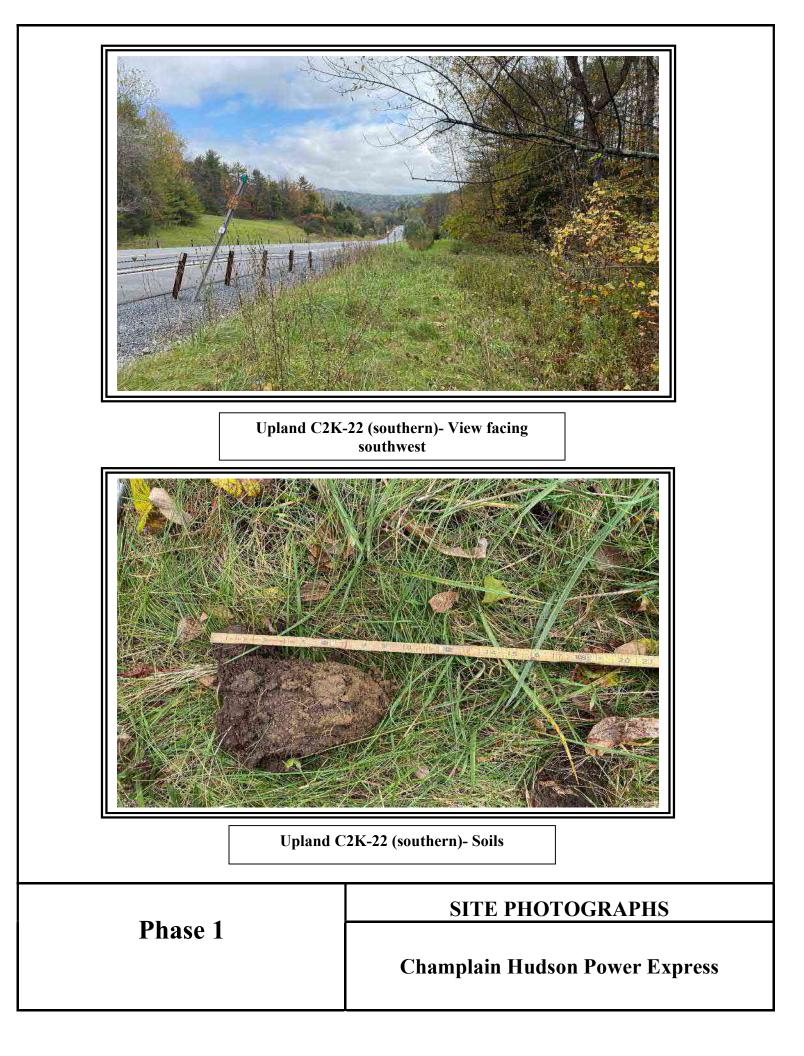
| Hydrophytic Vegetation Present? | Yes | No X | Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: | | |
|--|-----|------|--|--|--|
| Hydric Soil Present? | Yes | No X | | | |
| Wetland Hydrology Present? | Yes | No X | | | |
| Remarks: (Explain alternative procedures here or in a separate report.) Upland C2K-22 southern. Mowed roadside. | | | | | |

| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) | |
|--|---|---|
| Primary Indicators (minimum of one is requ | Surface Soil Cracks (B6) | |
| Surface Water (A1) | Water-Stained Leaves (B9) | Drainage Patterns (B10) |
| High Water Table (A2) | Aquatic Fauna (B13) | Moss Trim Lines (B16) |
| Saturation (A3) | Marl Deposits (B15) | Dry-Season Water Table (C2) |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | Crayfish Burrows (C8) |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Roots (| C3) Saturation Visible on Aerial Imagery (C9) |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | Stunted or Stressed Plants (D1) |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils (C6) |) Geomorphic Position (D2) |
| Iron Deposits (B5) | Thin Muck Surface (C7) | ? Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B | 7) Other (Explain in Remarks) | Microtopographic Relief (D4) |
| Sparsely Vegetated Concave Surface (| B8) | FAC-Neutral Test (D5) |
| Field Observations: | | |
| Surface Water Present? Yes | No x Depth (inches): | |
| Water Table Present? Yes | No x Depth (inches): | |
| Saturation Present? Yes | No x Depth (inches): We | etland Hydrology Present? Yes No X |
| (includes capillary fringe) | | |
| Describe Recorded Data (stream gauge, m | onitoring well, aerial photos, previous inspections | s), if available: |
| | | |
| | | |
| Remarks: | | |
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Sampling Point: C2K-22 Upl

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | | | | |
|--|---------------------|----------------------|---------------------|---|--|--|--|--|
| 1. 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC:(A) | | | | |
| 3. 4. | | | | Total Number of Dominant Species Across All Strata: 4 (B) | | | | |
| 5. 6. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC:25.0% (A/B) | | | | |
| 7 | | | | Prevalence Index worksheet: | | | | |
| | | =Total Cover | | Total % Cover of: Multiply by: | | | | |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species x 1 = | | | | |
| 1. Populus tremuloides | 2 | No | FACU | FACW species 15 x 2 = 30 | | | | |
| 2 | | | | FAC species3 x 3 =9 | | | | |
| 3 | | | | FACU species 77 x 4 = 308 | | | | |
| 4. | | | | UPL species 20 x 5 = 100 | | | | |
| 5. | | | | Column Totals: 115 (A) 447 (B) | | | | |
| 6. | | | | Prevalence Index = B/A = 3.89 | | | | |
| 7 | | | | Hydrophytic Vegetation Indicators: | | | | |
| <i>I</i> | 2 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation | | | | |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% | | | | |
| 1. Cichorium intybus | 15 | Yes | FACU | 3 - Prevalence Index is $\leq 3.0^{1}$ | | | | |
| 2. Pastinaca sativa | 10 | No | UPL | 4 - Morphological Adaptations ¹ (Provide supporting | | | | |
| | 10 | No | UPL | data in Remarks or on a separate sheet) | | | | |
| | | | | | | | | |
| 4. Solidago canadensis | | No | FACU | Problematic Hydrophytic Vegetation ¹ (Explain) | | | | |
| 5. Toxicodendron radicans | 3 | No | FAC | ¹ Indicators of hydric soil and wetland hydrology must | | | | |
| 6. Schedonorus pratensis | 45 | Yes | FACU | be present, unless disturbed or problematic. | | | | |
| 7. Agrostis gigantea | 15 | Yes | FACW | Definitions of Vegetation Strata: | | | | |
| 8 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in | | | | |
| 9 | | | | diameter at breast height (DBH), regardless of height. | | | | |
| 10 | | | | Sapling/shrub – Woody plants less than 3 in. DBH | | | | |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. | | | | |
| 12 | | | | Herb – All herbaceous (non-woody) plants, regardless | | | | |
| | 108 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. | | | | |
| Woody Vine Stratum (Plot size: 30') | | | | Woody vines – All woody vines greater than 3.28 ft in | | | | |
| 1. Vitis aestivalis | 5 | Yes | FACU | height. | | | | |
| 2 | | | | | | | | |
| 3 | | | | Hydrophytic Vegetation | | | | |
| 4. | | | | Present? Yes No X | | | | |
| | | =Total Cover | | | | | | |
| Remarks: (Include photo numbers here or on a separ | ate sheet.) | | | | | | | |
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| Profile Desc | ription: (Describe | to the de | oth needed to docu | ument tl | he indica | ator or co | onfirm the absence o | f indicators.) | |
|----------------------------|------------------------|------------|-----------------------------|-----------|-------------------|------------------|--|--------------------|------------------------------|
| Depth | Matrix | | Redo | x Featur | es | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Re | emarks |
| 0-5 | 10YR 3/2 | 100 | | | | | Loamy/Clayey | wit | n gravel |
| 5-8 | 10YR 4/4 | 50 | 10YR 5/4 | 49 | C | | Loamy/Clayey | Faint redox | concentrations |
| | | | 10YR 4/6 | 1 | С | М | | Distinct redo | ox concentrations |
| | | | | | | | | | |
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| 1 | | | | | | | | | |
| | oncentration, D=Dep | letion, RM | =Reduced Matrix, N | /IS=Mas | ked Sand | d Grains. | | L=Pore Lining, M | |
| Hydric Soil I | | | Debaselus Deb | 0 | | | | or Problematic H | - |
| Histosol | . , | | Polyvalue Belo | | ce (58) (I | LRR R, | | | , L, MLRA 149B) |
| | bipedon (A2) | | MLRA 149B Thin Dark Surf | <i>'</i> | | | | rairie Redox (A16 | |
| Black His | n Sulfide (A4) | | High Chroma S | | | | | e Below Surface | (S3) (LRR K, L, R) |
| | I Layers (A5) | | Loamy Mucky | | | | | k Surface (S9) (L | |
| | Below Dark Surface | e (A11) | Loamy Gleyed | | | ιτι, Ε) | | | (F12) (LRR K, L, R) |
| | ark Surface (A12) | | Depleted Matri | | / | | | - | s (F19) (MLRA 149B) |
| | lucky Mineral (S1) | | Redox Dark Su | | 6) | | | | A 144A, 145, 149B) |
| | leyed Matrix (S4) | | Depleted Dark | • | , | | | ent Material (F21) | |
| | edox (S5) | | Redox Depres | sions (Fa | 8) | | Very Shallow Dark Surface (F22) | | |
| Stripped | Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other (E | xplain in Remark | s) |
| Dark Sur | face (S7) | | | | | | | | |
| | | | | | | | | | |
| ³ Indicators of | f hydrophytic vegetat | tion and w | etland hydrology mເ | ust be pr | resent, ur | nless dist | urbed or problematic. | | |
| Restrictive L | _ayer (if observed): | | | | | | | | |
| Туре: | roc | k | | | | | | | |
| Depth (ir | nches): | 8 | | | | | Hydric Soil Prese | nt? Yes_ | No _X |
| | 2015 Errata. (http://v | | | | | | 2.0 to include the NR(2p2_051293.docx) | CS Field Indicator | s of Hydric Soils, |
| | | | | | | | | | |
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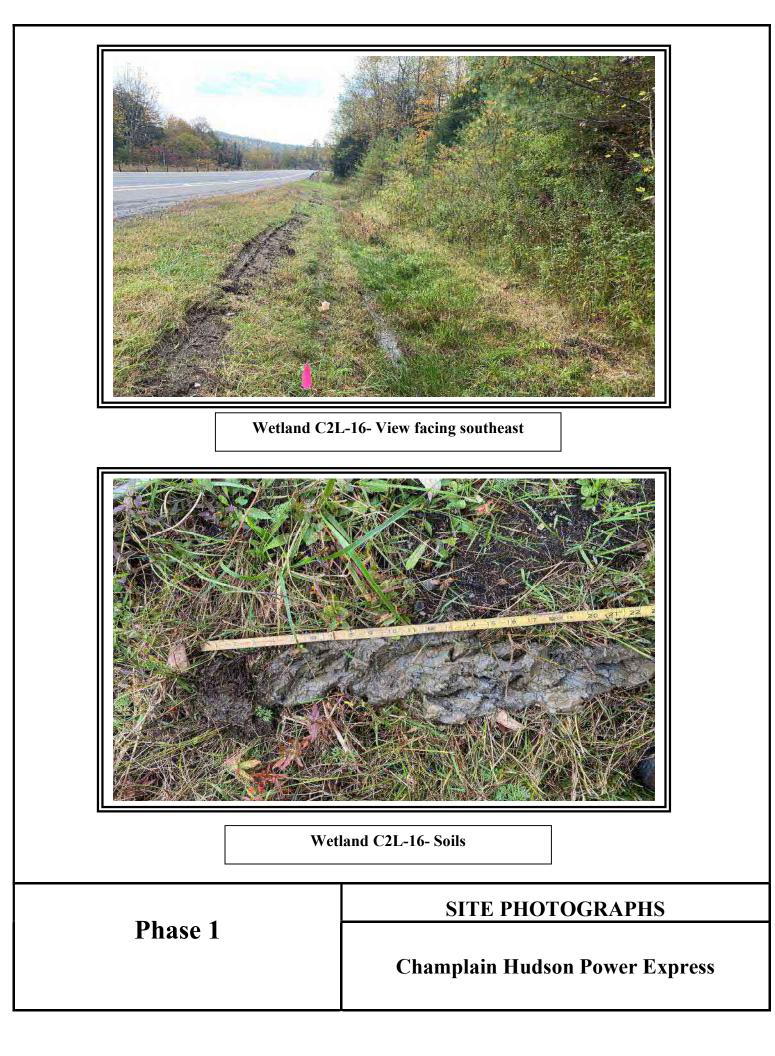
| Project/Site: CHPE | City/County: Dresden/Washington Sampling Date: 10/13/21 | | | | | | |
|---|---|--|--|--|--|--|--|
| Applicant/Owner: TDI | State: NY Sampling Point: C2L-16 Wet | | | | | | |
| Investigator(s): N. Frazer, S. Berryman | Section, Township, Range: | | | | | | |
| Landform (hillside, terrace, etc.): ditch | Local relief (concave, convex, none): concave Slope %: 0 | | | | | | |
| Subregion (LRR or MLRA): LRR R | Lat: <u>43-40-47.58N</u> Long: <u>73-24-59.20W</u> Datum: | | | | | | |
| Soil Map Unit Name: Vergennes silty clay | NWI classification: PEM | | | | | | |
| Are climatic / hydrologic conditions on the site typic | al for this time of year? Yes x No (If no, explain in Remarks.) | | | | | | |
| Are Vegetation, Soil, or Hydrology | significantly disturbed? Are "Normal Circumstances" present? Yes x No | | | | | | |
| Are Vegetation, Soil, or Hydrology | naturally problematic? (If needed, explain any answers in Remarks.) | | | | | | |
| SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. | | | | | | | |
| Hydrophytic Vegetation Present? Yes | X No Is the Sampled Area | | | | | | |
| Hydric Soil Present? Yes | X No within a Wetland? Yes X No | | | | | | |
| Wetland Hydrology Present? Yes | X No If yes, optional Wetland Site ID: | | | | | | |
| Remarks: (Explain alternative procedures here or Linear vegetated ditch. | in a separate report.) | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Wetland Hydrology Indicators: | | Secondary Indicators (minimum of two required) | | |
|---|--|--|---|--|
| Primary Indicators (minimum of one is require | Surface Soil Cracks (B6) | | | |
| X Surface Water (A1) | Drainage Patterns (B10) | | | |
| X High Water Table (A2) | Aquatic Fauna (B13) | | Moss Trim Lines (B16) | |
| X Saturation (A3) | Marl Deposits (B15) | | Dry-Season Water Table (C2) | |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | | Crayfish Burrows (C8) | |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Ro | oots (C3) | Saturation Visible on Aerial Imagery (C9) | |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | | Stunted or Stressed Plants (D1) | |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils | s (C6) | X Geomorphic Position (D2) | |
| Iron Deposits (B5) | Thin Muck Surface (C7) | | Shallow Aquitard (D3) | |
| Inundation Visible on Aerial Imagery (B7) |) Other (Explain in Remarks) | | Microtopographic Relief (D4) | |
| Sparsely Vegetated Concave Surface (B | 8) | | FAC-Neutral Test (D5) | |
| Field Observations: | | | | |
| Surface Water Present? Yes x | No Depth (inches): 1 | | | |
| Water Table Present? Yes x | No Depth (inches): 3 | | | |
| Saturation Present? Yes x | No Depth (inches): 0 | Wetlan | d Hydrology Present? Yes X No | |
| (includes capillary fringe) | | | | |
| Describe Recorded Data (stream gauge, mor | nitoring well, aerial photos, previous inspe | ctions), if a | available: | |
| | | | | |
| Remarks: | | | | |
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Sampling Point: C2L-16 Wet

| | Absolute | Dominant | Indicator | |
|--|--------------|--------------|-----------|---|
| Tree Stratum (Plot size: 30') | % Cover | Species? | Status | Dominance Test worksheet: |
| 1 | | | | Number of Dominant Species |
| 2 | | | | That Are OBL, FACW, or FAC:(A) |
| 3 | | | | Total Number of Dominant |
| 4 | | | | Species Across All Strata: 3 (B) |
| 5 | | | | Percent of Dominant Species |
| 6 | | | | That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B) |
| 7. | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 40 x 1 = 40 |
| 1. Pinus strobus | 5 | Yes | FACU | FACW species $0 	 x 2 = 0$ |
| 2. | | | | FAC species 67 x 3 = 201 |
| | | | | FACU species 5 x 4 = 20 |
| | | | | UPL species $0 \times 5 = 0$ |
| | | | | Column Totals: 112 (A) 261 (B) |
| | | | | () () |
| 6 | | | | Prevalence Index = B/A = 2.33 |
| 7 | | | | Hydrophytic Vegetation Indicators: |
| | 5 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% |
| 1. Juncus tenuis | 65 | Yes | FAC | X_3 - Prevalence Index is ≤3.0 ¹ |
| 2. Lythrum salicaria | 40 | Yes | OBL | 4 - Morphological Adaptations ¹ (Provide supporting |
| 3. Equisetum arvense | 2 | No | FAC | data in Remarks or on a separate sheet) |
| 4 | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5 | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 6 | | | | be present, unless disturbed or problematic. |
| 7. | | | | Definitions of Vegetation Strata: |
| 8. | | | | Tree Weedy plants 2 in (7.6 cm) or more in |
| 9. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 10. | | | | |
| 11. | | | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. |
| 12. | | | | |
| 12. | 107 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| Weedy Vine Stratum (Plat size) 201 | 107 | | | of size, and woody plants less than 5.20 it tall. |
| Woody Vine Stratum (Plot size: 30') | | | | Woody vines – All woody vines greater than 3.28 ft in |
| 1 | | | | height. |
| 2. | | | | Hydrophytic |
| 3 | | | | Vegetation |
| 4 | | | | Present? |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a separ | rate sheet.) | | | |
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| Profile Desc | ription: (Describe | to the de | pth needed to doc | ument tl | he indica | ator or co | onfirm the absence of inc | licators.) |
|---|---|------------|---|--------------------------------------|---|------------------|--|---|
| Depth | Matrix | | Redo | x Featur | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-2 | 10YR 2/1 | 100 | | | | | Muck | |
| 2-23 | 5Y 5/1 | 70 | 10YR 4/6 | 30 | C | | Loamy/Clayey | Prominent redox concentrations |
| | | | | | | | | |
| | | | | | | | | |
| ¹ Type: C=Co | ncentration, D=Dep | letion, RM | | MS=Mas | ked Sanc | d Grains. | | ore Lining, M=Matrix. roblematic Hydric Soils ³ : |
| Black His Hydroge | ipedon (A2) | ∋ (A11) | Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed |) ace (S9) Sands (S Mineral |) (LRR R 511) (LRI (F1) (LR I | , MLRA | ? Coast Prairie 149B) 5 cm Mucky Polyvalue Be Thin Dark St | A10) (LRR K, L, MLRA 149B) Redox (A16) (LRR K, L, R) Peat or Peat (S3) (LRR K, L, R) Nelow Surface (S8) (LRR K, L) urface (S9) (LRR K, L) ese Masses (F12) (LRR K, L, R) |
| Sandy M Sandy G Sandy R Stripped | rk Surface (A12) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) | | X Depleted Matri Redox Dark Si Depleted Dark ? Redox Depres Marl (F10) (LR | urface (F Surface sions (Fa | (F7) | | Mesic Spodi Red Parent I Very Shallov | bodplain Soils (F19) (MLRA 149B) c (TA6) (MLRA 144A, 145, 149B) Material (F21) / Dark Surface (F22) in in Remarks) |
| ³ Indicators of | hydrophytic vegetat | tion and w | etland hydrology m | ust be pr | resent, ur | nless dist | urbed or problematic. | |
| Restrictive L Type: Depth (ir | ayer (if observed): nor | | | | | | Hydric Soil Present? | Yes X No |
| Remarks: This data for | | | | | | | 2.0 to include the NRCS F | ield Indicators of Hydric Soils, |
| | | | | | | | | |



| Project/Site: CHPE | City/County: Dresden/Washington Sampling Date: 10/13/21 |
|---|--|
| Applicant/Owner: TDI | State: NY Sampling Point: C2L-16 Upl |
| Investigator(s): N. Frazer, S. Berryman | Section, Township, Range: |
| Landform (hillside, terrace, etc.): hillslope Local | relief (concave, convex, none): none Slope %: 3 |
| Subregion (LRR or MLRA): LRR R Lat: 43-40-47.58N | Long: 73-24-59.20W Datum: |
| Soil Map Unit Name: Vergennes silty clay | NWI classification: N/A |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes x No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly distur | bed? Are "Normal Circumstances" present? Yes x No |
| Are Vegetation, Soil, or Hydrologynaturally problema | atic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sam | pling point locations, transects, important features, etc. |

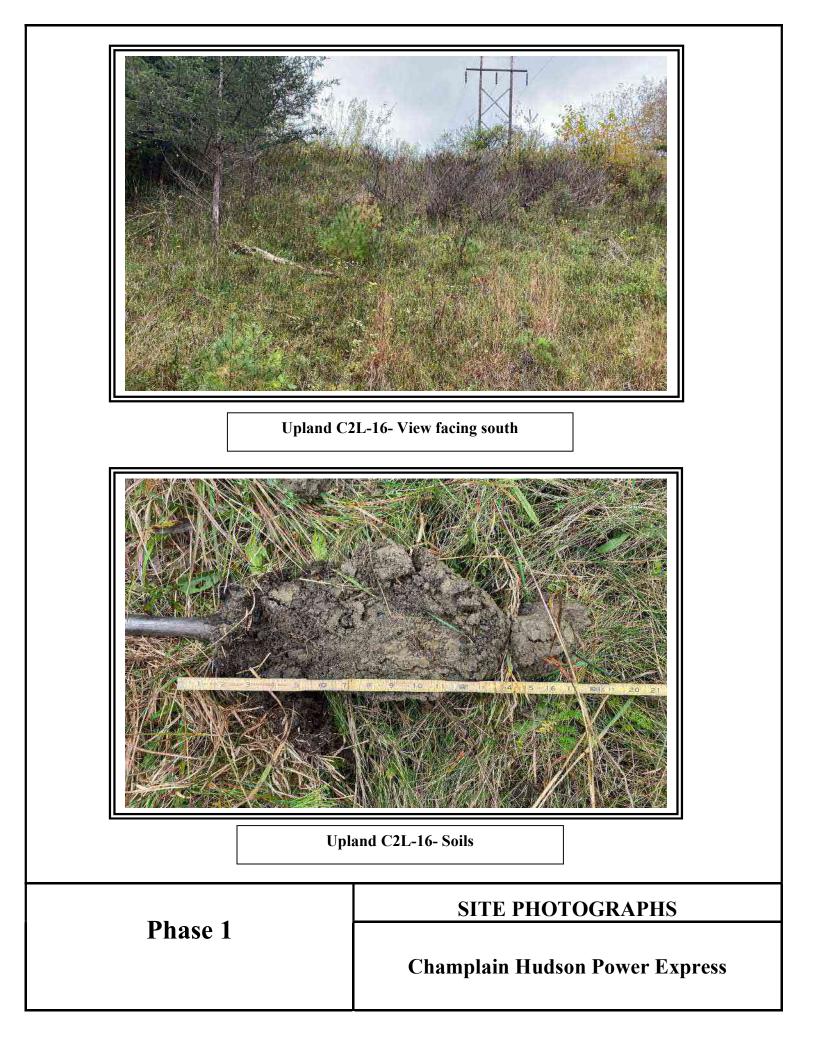
| Hydrophytic Vegetation Present? | Yes | No X | Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: |
|--|------------------|-------------------|--|
| Hydric Soil Present? | Yes | No X | |
| Wetland Hydrology Present? | Yes | No X | |
| Remarks: (Explain alternative procedu Successional old field. | res here or in a | separate report.) | |

| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) | | | | | | |
|--|--|--|--|--|--|--|--|
| Primary Indicators (minimum of one is re | Surface Soil Cracks (B6) | | | | | | |
| Surface Water (A1) | Drainage Patterns (B10) | | | | | | |
| High Water Table (A2) | Aquatic Fauna (B13) | Moss Trim Lines (B16) | | | | | |
| Saturation (A3) | Marl Deposits (B15) | Dry-Season Water Table (C2) | | | | | |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | Crayfish Burrows (C8) | | | | | |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Re | Roots (C3) Saturation Visible on Aerial Imagery (C9) | | | | | |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | Stunted or Stressed Plants (D1) | | | | | |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soil | ils (C6) Geomorphic Position (D2) | | | | | |
| Iron Deposits (B5) | Thin Muck Surface (C7) | Shallow Aquitard (D3) | | | | | |
| Inundation Visible on Aerial Imagery | / (B7) Other (Explain in Remarks) | Microtopographic Relief (D4) | | | | | |
| Sparsely Vegetated Concave Surface | ce (B8) | FAC-Neutral Test (D5) | | | | | |
| Field Observations: | | | | | | | |
| Surface Water Present? Yes | No x Depth (inches): | | | | | | |
| Water Table Present? Yes | No x Depth (inches): | | | | | | |
| Saturation Present? Yes | No x Depth (inches): | Wetland Hydrology Present? Yes No X | | | | | |
| (includes capillary fringe) | · | | | | | | |
| Describe Recorded Data (stream gauge | , monitoring well, aerial photos, previous inspe | pections), if available: | | | | | |
| | | | | | | | |
| Remarks: | | | | | | | |
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Sampling Point: C2L-16 Upl

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | | |
|---|----------------------|----------------------|---------------------|---|---------------------------|---------|
| 1. Juniperus virginiana | 15 | Yes | FACU | Number of Dominant Creation | | |
| 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC: | 1(# | A) |
| 3 4 | | · | | Total Number of Dominant Species Across All Strata: | <u> 5 </u> (E | B) |
| 5 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 2 | 20.0% (4 | A/B |
| 7 | | | | Prevalence Index worksheet: | .0.070 (7 | |
| · | | =Total Cover | | | ltiply by: | |
| Sapling/Shrub Stratum (Plot size: 15' |) | | | $\frac{1}{OBL \text{ species}} 0 \qquad \text{ x 1 =}$ | 0 | - |
| 1. Pinus strobus | _ [/] 15 | Yes | FACU | FACW species $0 \times 2 =$ | 0 | - |
| 2. Juniperus virginiana | 5 | Yes | FACU | FAC species $25 \times 3 =$ | 75 | - |
| 3. Populus tremuloides | 2 | <u> </u> | FACU | FACU species 102 $x 4 =$ | 408 | - |
| | 2 | | | UPL species 7 $x 5 =$ | 35 | - |
| | | | | Column Totals: 134 (A) | 518 | – (E |
| | | | | Prevalence Index = B/A = | 3.87 | _ (C |
| o 7 | | | | Hydrophytic Vegetation Indicators: | 3.07 | |
| | 22 | =Total Cover | | 1 - Rapid Test for Hydrophytic Veg | otation | |
| Herb Stratum (Plot size: 5') | 22 | | | 2 - Dominance Test is >50% | Jetalion | |
| 1. Populus tremuloides | 5 | No | FACU | 3 - Prevalence Index is ≤3.0 ¹ | | |
| 2. Lotus corniculatus | 40 | Yes | FACU | 4 - Morphological Adaptations ¹ (Pr | ovide suppo | orti |
| 3. Solidago canadensis | 15 | No | FACU | data in Remarks or on a separa | | |
| 4. Daucus carota | 5 | No | UPL | Problematic Hydrophytic Vegetatic | on ¹ (Explain) |) |
| 5. Securigera varia | 2 | No No | UPL | | | |
| 6. Equisetum hyemale | 2 | Yes | FAC | ¹ Indicators of hydric soil and wetland h be present, unless disturbed or probler | | ust |
| 7. Juniperus virginiana | 5 | No | FACU | Definitions of Vegetation Strata: | | |
| 8. | | | | - | | |
| 9. | | · | | Tree – Woody plants 3 in. (7.6 cm) or i diameter at breast height (DBH), regard | | ight |
| 10 11 | | · | | Sapling/shrub – Woody plants less th and greater than or equal to 3.28 ft (1 r | | Η |
| 12 | 97 | =Total Cover | | Herb – All herbaceous (non-woody) pla of size, and woody plants less than 3.2 | | lles |
| Woody Vine Stratum (Plot size: 30' 1 | _) | | | Woody vines – All woody vines greate height. | er than 3.28 | ; ft i |
| 2. | | | | | | |
| 3. | | | | Hydrophytic Vegetation | | |
| 4. | | · | | Present? Yes No | х | |
| | | =Total Cover | | | | |
| Remarks: (Include photo numbers here or on a se | eparate sheet.) | | | | | |
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| Profile Desc | ription: (Describe | to the dep | pth needed to doc | ument t | he indica | ator or co | onfirm the absence of | indicators.) | |
|----------------------------|--|------------|--------------------|--------------|-------------------|------------------|---------------------------------|---|--|
| Depth | Matrix | | | x Featur | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-2 | 10YR 2/2 | 100 | | | | | Loamy/Clayey | with organics | |
| 2-8 | 10YR 4/3 | 100 | | | | | Sandy | | |
| 8-12 | 10YR 5/1 | 85 | 10YR 5/6 | 15 | C | M | Sandy | Prominent redox concentrations | |
| 12-18 | 10YR 4/2 | 85 | 10YR 5/3 | 15 | C | M | Sandy | Faint redox concentrations | |
| | | · | | | | | | | |
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| | | · | | | | | | | |
| ¹ Type: C=Co | oncentration, D=Dep | letion, RM | =Reduced Matrix, N | //S=Mas | ked Sand | d Grains. | | L=Pore Lining, M=Matrix. | |
| Hydric Soil I | indicators: | | | | | | Indicators fo | or Problematic Hydric Soils ³ : | |
| Histosol | (A1) | | Polyvalue Belo | ow Surfa | ce (S8) (| LRR R, | 2 cm Muo | ck (A10) (LRR K, L, MLRA 149B) | |
| Histic Ep | oipedon (A2) | | MLRA 149B | 3) | | | Coast Pra | airie Redox (A16) (LRR K, L, R) | |
| Black His | stic (A3) | | Thin Dark Surf | face (S9 |) (LRR R | , MLRA ′ | 149B)5 cm Muo | cky Peat or Peat (S3) (LRR K, L, R) | |
| Hydroge | n Sulfide (A4) | | High Chroma S | Sands (S | 611) (LRI | R K, L) | Polyvalue | e Below Surface (S8) (LRR K, L) | |
| Stratified | l Layers (A5) | | Loamy Mucky | Mineral | (F1) (LR | R K, L) | Thin Dark | k Surface (S9) (LRR K, L) | |
| Depleted | Below Dark Surface | e (A11) | Loamy Gleyed | Matrix (| F2) | | Iron-Man | ganese Masses (F12) (LRR K, L, R) | |
| Thick Da | ark Surface (A12) | | Depleted Matri | ix (F3) | | | Piedmon | t Floodplain Soils (F19) (MLRA 149B | |
| Sandy M | lucky Mineral (S1) | | Redox Dark Si | urface (F | -6) | | Mesic Sp | oodic (TA6) (MLRA 144A, 145, 149B) | |
| | leyed Matrix (S4) | | Depleted Dark | Surface | e (F7) | | | ent Material (F21) | |
| | edox (S5) | | Redox Depres | | • • | | Very Shallow Dark Surface (F22) | | |
| | Matrix (S6) | | Marl (F10) (LR | ` | 0) | | Other (Explain in Remarks) | | |
| | face (S7) | | | , <i>ב</i>) | | | | | |
| ³ Indicators of | f hvdrophvtic vegetat | tion and w | etland hvdrologv m | ust be pi | resent. u | nless dist | urbed or problematic. | | |
| | _ayer (if observed): | | | | , | | | | |
| Type: | nor | | | | | | | | |
| Depth (ir | nches): | | | | | | Hydric Soil Presen | t? Yes No X | |
| Remarks: | | | | | | | | | |
| | m is revised from No 2015 Errata. (http://v | | | | | | | CS Field Indicators of Hydric Soils, | |
| | | | | | | | | | |
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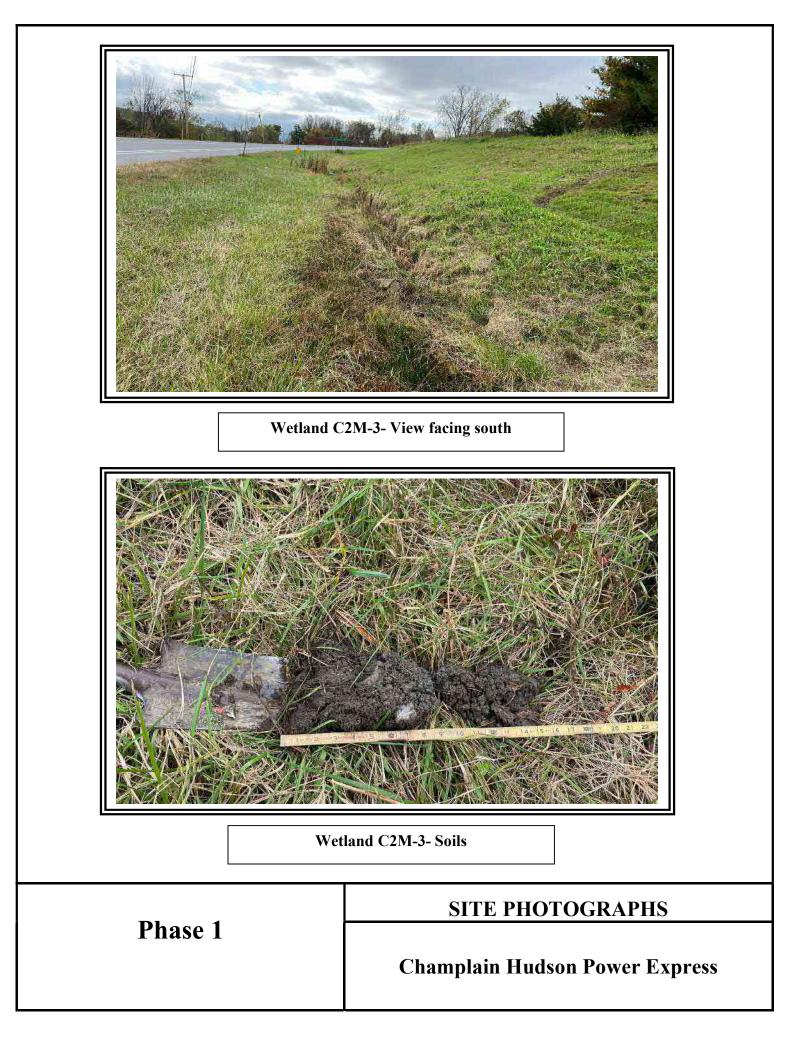
| Project/Site: CHPE | City/County: Dresden/Washington Sampling Date: 10/13/21 |
|--|---|
| Applicant/Owner: TDI | State: NY Sampling Point: C2M-3 Wet |
| Investigator(s): N. Frazer, S. Berryman | Section, Township, Range: |
| Landform (hillside, terrace, etc.): ditch Local | I relief (concave, convex, none): concave Slope %: 2 |
| Subregion (LRR or MLRA): LRR R Lat: 43-40-36.08N | Long: 73-24-35.41W Datum: |
| Soil Map Unit Name: Hartland very fine sandy loam | NWI classification: PEM |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes x No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly distu | rbed? Are "Normal Circumstances" present? Yes x No |
| Are Vegetation, Soil, or Hydrology naturally problem | atic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing san | npling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No |
| Wetland Hydrology Present? Yes X No | If yes, optional Wetland Site ID: |
| Remarks: (Explain alternative procedures here or in a separate report.) Linear vegetated ditch. | |
| | |

| Wetland Hydrology Indicators: | | Secondary Indicators (minimum of two required) |
|---|--|---|
| Primary Indicators (minimum of one is require | Surface Soil Cracks (B6) | |
| Surface Water (A1) | Water-Stained Leaves (B9) | Drainage Patterns (B10) |
| High Water Table (A2) | Aquatic Fauna (B13) | Moss Trim Lines (B16) |
| Saturation (A3) | Marl Deposits (B15) | Dry-Season Water Table (C2) |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | Crayfish Burrows (C8) |
| Sediment Deposits (B2) | X Oxidized Rhizospheres on Living Ro | oots (C3) Saturation Visible on Aerial Imagery (C9) |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | Stunted or Stressed Plants (D1) |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils | s (C6) X Geomorphic Position (D2) |
| Iron Deposits (B5) | Thin Muck Surface (C7) | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7 |) Other (Explain in Remarks) | Microtopographic Relief (D4) |
| Sparsely Vegetated Concave Surface (B | 8) | X FAC-Neutral Test (D5) |
| Field Observations: | | |
| Surface Water Present? Yes | No x Depth (inches): | |
| Water Table Present? Yes | No x Depth (inches): | |
| Saturation Present? Yes | No x Depth (inches): | Wetland Hydrology Present? Yes X No |
| (includes capillary fringe) | | |
| Describe Recorded Data (stream gauge, mo | nitoring well, aerial photos, previous inspe | ctions), if available: |
| | | |
| Remarks: | | |
| Culvert under Route 22 at flag C2M-8. | | |
| Culvert under Noute 22 at hag Czivi-o. | | |
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Sampling Point: C2M-3 Wet

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|---|---------------------|----------------------|---------------------|---|
| 1. 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC:3(A) |
| 3 4 | | | | Total Number of Dominant Species Across All Strata: <u>3</u> (B) |
| 5 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) |
| 7 | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species60 x 1 =60 |
| 1 | | | | FACW species 0 x 2 = 0 |
| 2. | | | | FAC species 30 x 3 = 90 |
| 3. | | | | FACU species 10 x 4 = 40 |
| 4. | | | | UPL species 0 x 5 = 0 |
| 5. | | | | Column Totals: 100 (A) 190 (B) |
| 6. | | | | Prevalence Index = B/A = 1.90 |
| 7. | | | | Hydrophytic Vegetation Indicators: |
| | | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% |
| 1. Lythrum salicaria | 40 | Yes | OBL | X 3 - Prevalence Index is ≤3.0 ¹ |
| 2. Juncus tenuis | 30 | Yes | FAC | 4 - Morphological Adaptations ¹ (Provide supporting |
| 3. Lotus corniculatus | 10 | No | FACU | data in Remarks or on a separate sheet) |
| A Turka latifalia | | Yes | OBL | Problematic Hydrophytic Vegetation ¹ (Explain) |
| | | 100 | | |
| | | | | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| | | | | Definitions of Vegetation Strata: |
| 7. 8. | | | | _ |
| 9. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 10 | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | 100 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | Woody vines – All woody vines greater than 3.28 ft in |
| 1 | | | | height. |
| 2 | | | | |
| 3 | | | | Hydrophytic Vegetation |
| 4. | | | | Present? Yes X No |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a sepa | arate sheet.) | | | |
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| Profile Des | cription: (Describe | to the de | epth needed to docu | ument tl | he indica | ator or co | onfirm the absence o | f indicators.) | |
|---------------------------|---|------------|---|-----------|-------------------|------------------|--|--|--|
| Depth | Matrix | | Redo | x Featur | es | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-6 | 10YR 2/1 | 92 | 7.5YR 3/3 | 8 | С | PL | Loamy/Clayey | Distinct redox concentrations | |
| 6-16 | 2.5Y 3/1 | 60 | 10YR 4/4 | 40 | C | | Loamy/Clayey | Prominent redox concentrations | |
| | | | | | | | | with gravel | |
| | | | | | | | | | |
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| 17 0.0 | | | | | | | | | |
| Hydric Soil | oncentration, D=Dep | letion, RN | M=Reduced Matrix, N | /IS=Mas | ked Sand | d Grains. | | PL=Pore Lining, M=Matrix. | |
| Histosol | | | Polyvalue Belo | w Surfa | ce (S8) (| | | uck (A10) (LRR K, L, MLRA 149B) | |
| | pipedon (A2) | | MLRA 149B | | | LIXIX IX, | | rairie Redox (A16) (LRR K, L, R) | |
| | istic (A3) | | Thin Dark Surf | , |) (LRR R | . MLRA 1 | | ucky Peat or Peat (S3) (LRR K, L, R) | |
| | en Sulfide (A4) | | High Chroma S | | | | | le Below Surface (S8) (LRR K, L) | |
| | d Layers (A5) | | Loamy Mucky | | | | | rk Surface (S9) (LRR K, L) | |
| Deplete | d Below Dark Surface | e (A11) | Loamy Gleyed | Matrix (| F2) | | ? Iron-Mai | nganese Masses (F12) (LRR K, L, R) | |
| Thick Da | ark Surface (A12) | | Depleted Matri | x (F3) | | | Piedmoi | nt Floodplain Soils (F19) (MLRA 149B) | |
| | /lucky Mineral (S1) | | X Redox Dark Su | urface (F | 6) | | Mesic Spodic (TA6) (MLRA 144A, 145, 149B) | | |
| | Gleyed Matrix (S4) | | Depleted Dark | | . , | | | rent Material (F21) | |
| | Redox (S5) | | ? Redox Depres | • | 8) | | | allow Dark Surface (F22) | |
| | I Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other (E | Explain in Remarks) | |
| Dark Su | rface (S7) | | | | | | | | |
| ³ Indicators o | f hvdrophvtic vegetat | tion and v | vetland hvdrologv mu | ust be pr | resent. ur | nless dist | urbed or problematic. | | |
| | Layer (if observed): | | , | | , | | | | |
| Type: | roc | k | | | | | | | |
| Depth (i | nches): | 16 | | | | | Hydric Soil Prese | nt? Yes <u>X</u> No | |
| Remarks: | | | | | | | | | |
| | rm is revised from No 2015 Errata. (http://v | | | | | | | CS Field Indicators of Hydric Soils, | |
| | | ww.mcs | .usua.gov/internet/1 | | | 0/11/0314 | 2p2_001200.0000) | | |
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| Project/Site: CHPE | City/County: Dresden/Washington Sampling Date: 10/13/21 |
|--|--|
| Applicant/Owner: TDI | State: NY Sampling Point: C2M-3-Upl |
| Investigator(s): N. Frazer, S. Berryman | Section, Township, Range: |
| Landform (hillside, terrace, etc.): flat Low | cal relief (concave, convex, none): none Slope %: 0 |
| Subregion (LRR or MLRA): LRR R Lat: 43-40-36.08 | Long: 73-24-35.41W Datum: |
| Soil Map Unit Name: Hartland very fine sandy loam | NWI classification: N/A |
| Are climatic / hydrologic conditions on the site typical for this time of year | ? Yes x No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly dis | sturbed? Are "Normal Circumstances" present? Yes x No |
| Are Vegetation, Soil, or Hydrologynaturally proble | ematic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sa | ampling point locations, transects, important features, etc. |

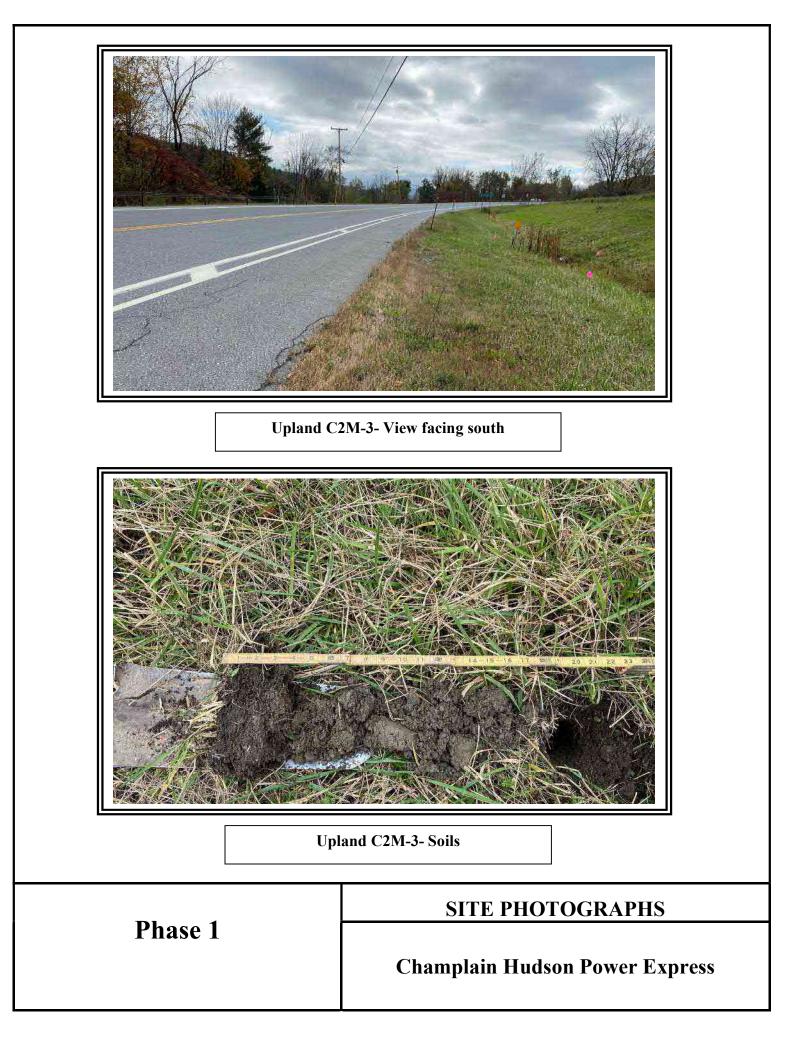
| Hydrophytic Vegetation Present? | Yes | No <u>X</u> | Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: |
|--|-------------------|------------------|--|
| Hydric Soil Present? | Yes | No <u>X</u> | |
| Wetland Hydrology Present? | Yes | No <u>X</u> | |
| Remarks: (Explain alternative procedure Mowed roadside. | s here or in a se | eparate report.) | |

| Wetland Hydrology Indicators: | | | Secondary Indicators (minimum of two required) | | |
|---|---------------------------------------|-----------|--|--|--|
| Primary Indicators (minimum of one is requi | red; check all that apply) | | Surface Soil Cracks (B6) | | |
| Surface Water (A1) | Water-Stained Leaves (B9) | | Drainage Patterns (B10) | | |
| High Water Table (A2) | Aquatic Fauna (B13) | | Moss Trim Lines (B16) | | |
| Saturation (A3) | Marl Deposits (B15) | | Dry-Season Water Table (C2) | | |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | | Crayfish Burrows (C8) | | |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Ro | oots (C3) | Saturation Visible on Aerial Imagery (C9) | | |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | | Stunted or Stressed Plants (D1) | | |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils | s (C6) | Geomorphic Position (D2) | | |
| Iron Deposits (B5) | Thin Muck Surface (C7) | | Shallow Aquitard (D3) | | |
| Inundation Visible on Aerial Imagery (B7 |) Other (Explain in Remarks) | | Microtopographic Relief (D4) | | |
| Sparsely Vegetated Concave Surface (E | 38) | | FAC-Neutral Test (D5) | | |
| Field Observations: | | | | | |
| Surface Water Present? Yes | No x Depth (inches): | | | | |
| Water Table Present? Yes | No x Depth (inches): | | | | |
| | | | | | |
| Saturation Present? Yes | No x Depth (inches): | Wetlan | d Hydrology Present? Yes <u>No X</u> | | |
| Saturation Present? Yes (includes capillary fringe) | No x Depth (inches): | Wetlan | d Hydrology Present? Yes <u>No X</u> | | |
| | | | | | |
| (includes capillary fringe) | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | | |
| (includes capillary fringe) | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | | |

Sampling Point: C2M-3-Upl

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|--|---------------------|----------------------|---------------------|---|
| 1. 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC:0 (A) |
| 3 4 | | | | Total Number of Dominant Species Across All Strata: 1 (B) |
| 5 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC:0.0% (A/B) |
| 7 | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size:15') | | | | OBL species x 1 =1 |
| 1 | | | | FACW species 0 x 2 = 0 |
| 2. | | | | FAC species 0 x 3 = 0 |
| 3. | | | | FACU species 101 x 4 = 404 |
| 4. | | | | UPL species 1 x 5 = 5 |
| 5. | | | | Column Totals: 103 (A) 410 (B) |
| 6. | | | | Prevalence Index = B/A = 3.98 |
| 7. | | | | Hydrophytic Vegetation Indicators: |
| | | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| <u>Herb Stratum</u> (Plot size: 5') | | | | 2 - Dominance Test is >50% |
| 1. Poa pratensis | 100 | Yes | FACU | 3 - Prevalence Index is ≤3.0 ¹ |
| 2. Lythrum salicaria | 1 | No | OBL | 4 - Morphological Adaptations ¹ (Provide supporting |
| 3. Daucus carota | 1 | No | UPL | data in Remarks or on a separate sheet) |
| 4. Lotus corniculatus | 1 | No | FACU | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5 | | | | |
| | | | | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| o 7 | | | | Definitions of Vegetation Strata: |
| 8. | | | | Tree Weedy plants 2 in (7.6 cm) or more in |
| 9. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 10. | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 11. | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | 103 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | 100 | | | |
| 1 | | | | Woody vines – All woody vines greater than 3.28 ft in height. |
| 2 | | | | Hydrophytic |
| 3 | | | | Vegetation |
| 4 | | | | Present? Yes No X |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a separ | ate sheet.) | | | |
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| Profile Des | cription: (Describe | to the de | pth needed to doc | ument t | he indica | tor or co | onfirm the absence o | of indicators.) |
|---------------------------|--|------------|---|-----------|-------------------|------------------|--------------------------|--|
| Depth | Matrix | | Redo | x Featu | res | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-4 | 10YR 3/2 | 100 | | | | | Loamy/Clayey | with organics |
| 4-18 | 2.5Y 3/2 | 95 | 10YR 6/6 | 5 | C | | Loamy/Clayey | Prominent redox concentrations |
| | | | | | | | | with gravel |
| | | | | | | | | |
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| | | | | | | | | |
| $\frac{1}{1}$ Type: C=C | oncentration, D=Dep | letion RM | | /S=Mas | ked Sand | | ² Location: F | PL=Pore Lining, M=Matrix. |
| Hydric Soil | | | | | | | | or Problematic Hydric Soils ³ : |
| Histosol | | | Polyvalue Belo | w Surfa | ice (S8) (I | LRR R, | | uck (A10) (LRR K, L, MLRA 149B) |
| Histic E | pipedon (A2) | | MLRA 149B |) | | | Coast P | rairie Redox (A16) (LRR K, L, R) |
| Black H | istic (A3) | | Thin Dark Surf | ace (S9 |) (LRR R | , MLRA 1 | 149B) 5 cm Mu | ucky Peat or Peat (S3) (LRR K, L, R) |
| | en Sulfide (A4) | | High Chroma S | | | | Polyvalu | ue Below Surface (S8) (LRR K, L) |
| Stratifie | d Layers (A5) | | Loamy Mucky | Mineral | (F1) (LRI | R K, L) | Thin Da | rk Surface (S9) (LRR K, L) |
| Deplete | d Below Dark Surface | e (A11) | Loamy Gleyed | Matrix (| (F2) | | Iron-Ma | nganese Masses (F12) (LRR K, L, R) |
| Thick Da | ark Surface (A12) | | Depleted Matri | x (F3) | | | Piedmo | nt Floodplain Soils (F19) (MLRA 149B) |
| Sandy N | /lucky Mineral (S1) | | X Redox Dark Su | urface (F | -6) | | Mesic S | podic (TA6) (MLRA 144A, 145, 149B) |
| Sandy G | Bleyed Matrix (S4) | | Depleted Dark | Surface | e (F7) | | Red Par | rent Material (F21) |
| Sandy F | Redox (S5) | | ? Redox Depres | sions (F | 8) | | Very Sh | allow Dark Surface (F22) |
| Stripped | l Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other (E | Explain in Remarks) |
| Dark Su | rface (S7) | | | | | | | |
| ³ Indicators o | f hydrophytic vegetat | tion and w | vetland hvdrologv mi | ust be p | resent. ur | nless dist | urbed or problematic. | |
| | Layer (if observed): | | , | | , | | | |
| Type: | roc | k | | | | | | |
| Depth (i | nches): | 18 | | | | | Hydric Soil Prese | nt? Yes <u>X</u> No |
| Remarks: | | | | | | | | |
| | m is revised from No 2015 Errata. (http://v | | | | | | | CS Field Indicators of Hydric Soils, |
| | 2010 Enatal (http:// | | dodd.gov/moniour | 02_00 | SOMENT | 0/11/00/11 | <u></u> | |
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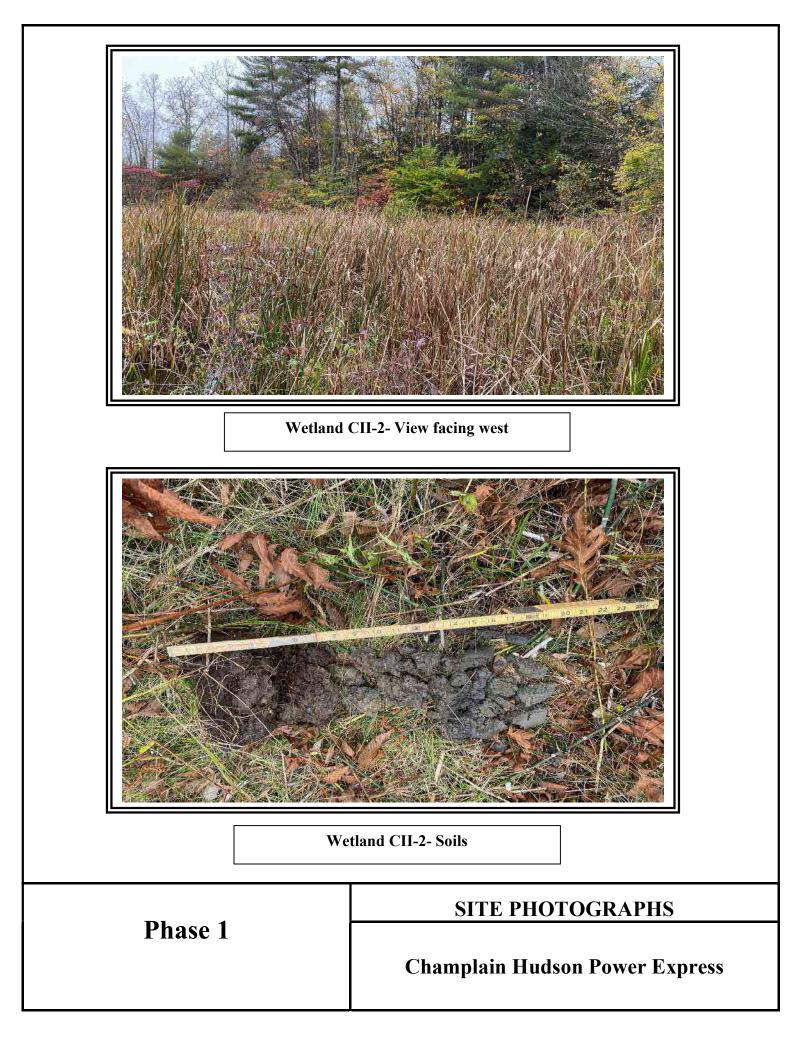
| Project/Site: CHPE | City/County: Dresden/Washington | Sampling Date: 10/14/21 | | | | | |
|--|---|------------------------------|--|--|--|--|--|
| Applicant/Owner: TDI | State: N | IY Sampling Point: CII-2 Wet | | | | | |
| Investigator(s): N. Frazer, S. Berryman Section, Township, Range: | | | | | | | |
| Landform (hillside, terrace, etc.): depression | Local relief (concave, convex, none): concave | Slope %: 0 | | | | | |
| Subregion (LRR or MLRA): LRR R | Lat: <u>43-40-06.69N</u> Long: <u>73-25-05.69W</u> | Datum: | | | | | |
| Soil Map Unit Name: Oakville loamy fine sand | Soil Map Unit Name: Oakville loamy fine sand NWI classification: PEM | | | | | | |
| Are climatic / hydrologic conditions on the site typic | al for this time of year? Yes <u>x</u> No (If r | no, explain in Remarks.) | | | | | |
| Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes x No | | | | | | | |
| Are Vegetation, Soil, or Hydrology | naturally problematic? (If needed, explain any answe | rs in Remarks.) | | | | | |
| SUMMARY OF FINDINGS – Attach site | SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. | | | | | | |
| Hydrophytic Vegetation Present? Yes | X No Is the Sampled Area | | | | | | |
| Hydric Soil Present? Yes | X No within a Wetland? Yes | < No | | | | | |
| Wetland Hydrology Present? Yes | X No If yes, optional Wetland Site ID: | | | | | | |
| Remarks: (Explain alternative procedures here o | in a separate report.) | | | | | | |
| Cattail marsh. | | | | | | | |
| | | | | | | | |

| Wetland Hydrology Indicators: | | | Secondary Indicators (minimum of two required) | | |
|---|---------------------------------------|--------------------------|--|--|--|
| Primary Indicators (minimum of one is require | | Surface Soil Cracks (B6) | | | |
| X Surface Water (A1) | Water-Stained Leaves (B9) | | Drainage Patterns (B10) | | |
| X High Water Table (A2) | Aquatic Fauna (B13) | | Moss Trim Lines (B16) | | |
| X Saturation (A3) | Marl Deposits (B15) | | Dry-Season Water Table (C2) | | |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | | Crayfish Burrows (C8) | | |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Ro | oots (C3) | Saturation Visible on Aerial Imagery (C9) | | |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | | Stunted or Stressed Plants (D1) | | |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils | s (C6) | X Geomorphic Position (D2) | | |
| Iron Deposits (B5) | Thin Muck Surface (C7) | | Shallow Aquitard (D3) | | |
| Inundation Visible on Aerial Imagery (B7 |) Other (Explain in Remarks) | | Microtopographic Relief (D4) | | |
| Sparsely Vegetated Concave Surface (B | 8) | | X FAC-Neutral Test (D5) | | |
| Field Observations: | | | | | |
| Surface Water Present? Yes x | No Depth (inches): 0.5 | | | | |
| Water Table Present? Yes x | No Depth (inches): 11 | | | | |
| | | | | | |
| Saturation Present? Yes x | No Depth (inches): 0 | Wetlan | d Hydrology Present? Yes X No | | |
| Saturation Present? Yes <u>x</u> (includes capillary fringe) | No Depth (inches):0 | Wetlan | d Hydrology Present? Yes X No | | |
| | | | | | |
| (includes capillary fringe) | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | | |
| (includes capillary fringe) | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | | |

Sampling Point: CII-2 Wet

| <u>Tree Stratum</u> (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|---|---------------------|----------------------|---------------------|--|
| 1. | | 000000 | | |
| 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A) |
| 3. 4. | | | | Total Number of Dominant Species Across All Strata:4(B) |
| 5 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) |
| 7 | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 73 x 1 = 73 |
| 1. Cornus amomum | 8 | Yes | FACW | FACW species 9 x 2 = 18 |
| 2. Cornus racemosa | 5 | Yes | FAC | FAC species 8 x 3 = 24 |
| 3. <u>Salix nigra</u> | 5 | Yes | OBL | FACU species x 4 = |
| 4 | | | | UPL species x 5 = |
| 5 | | | | Column Totals: 90 (A) 115 (B) |
| 6 | | | | Prevalence Index = B/A = 1.28 |
| 7 | | | | Hydrophytic Vegetation Indicators: |
| | 18 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% |
| 1. Typha angustifolia | 50 | Yes | OBL | X 3 - Prevalence Index is ≤3.0 ¹ |
| 2. Lythrum salicaria | 10 | No | OBL | 4 - Morphological Adaptations ¹ (Provide supporting |
| 3. Equisetum hyemale | 3 | No | FAC | data in Remarks or on a separate sheet) |
| 4. Salix nigra | 8 | No | OBL | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. Carex sp. | 8 | No | | ¹ Indicators of hydric soil and wetland hydrology must |
| 6. Onoclea sensibilis | 1 | No | FACW | be present, unless disturbed or problematic. |
| 7. Sphagnum moss sp. | 10 | No | | Definitions of Vegetation Strata: |
| 8 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in |
| 9 | | | | diameter at breast height (DBH), regardless of height. |
| 10 | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | | | | Herb – All herbaceous (non-woody) plants, regardless |
| | 90 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size:30') | | | | Woody vines – All woody vines greater than 3.28 ft in |
| 1 | | | | height. |
| 2 | | | | |
| 3. | | | | Hydrophytic Vegetation |
| 4. | | | | Present? Yes X No |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a sepa | rate sheet.) | | | 1 |
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| Profile Desc | ription: (Describe | to the de | pth needed to docu | ument ti | he indica | tor or co | onfirm the absence o | f indicators.) |
|-------------------------|--|-----------|------------------------|-----------------|-------------------|------------------|--------------------------|---|
| Depth | Matrix | | Redo | x Featur | es | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-5 | 10YR 3/1 | 100 | | | | | Loamy/Clayey | with organics |
| 5-14 | 10YR 4/1 | 60 | 10YR 4/4 | 40 | C | M | Sandy | Distinct redox concentrations |
| 14-21 | 10YR 4/1 | 70 | 2.5Y 4/1 | 20 | D | M | Sandy | |
| | | | 10YR 4/6 | 10 | С | M | | Prominent redox concentrations |
| | | | | | | | | |
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| | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=Depl | etion, RM | Reduced Matrix, N | /IS=Mas | ked Sand | Grains. | ² Location: F | |
| Hydric Soil I | ndicators: | | | | | | Indicators f | or Problematic Hydric Soils ³ : |
| Histosol | (A1) | | Polyvalue Belo | w Surfa | ce (S8) (| LRR R, | 2 cm Mu | uck (A10) (LRR K, L, MLRA 149B) |
| Histic Ep | ipedon (A2) | | MLRA 149B |) | | | ? Coast P | rairie Redox (A16) (LRR K, L, R) |
| Black His | stic (A3) | | Thin Dark Surf | ace (S9 |) (LRR R | , MLRA 1 | 1 49B) 5 cm Μι | ucky Peat or Peat (S3) (LRR K, L, R) |
| | n Sulfide (A4) | | High Chroma S | | - | | | ie Below Surface (S8) (LRR K, L) |
| | Layers (A5) | | Loamy Mucky | | | | | rk Surface (S9) (LRR K, L) |
| | Below Dark Surface | (A11) | Loamy Gleyed | | | , _, | | nganese Masses (F12) (LRR K, L, R) |
| | rk Surface (A12) | ,,,,,,, | Depleted Matri | |) | | | nt Floodplain Soils (F19) (MLRA 149B) |
| I —— | ucky Mineral (S1) | | Redox Dark Su | | 6) | | | podic (TA6) (MLRA 144A, 145, 149B) |
| | leyed Matrix (S4) | | Depleted Dark | • | , | | | rent Material (F21) |
| X Sandy G | | | Redox Depress | | . , | | | allow Dark Surface (F22) |
| | | | | • | 0) | | | |
| | Matrix (S6) face (S7) | | Marl (F10) (LR | K K, L) | | | | Explain in Remarks) |
| | | | | | | | | |
| | | | etland hydrology mu | ust be pi | resent, ur | nless dist | urbed or problematic. | |
| Type: | .ayer (if observed): non | | | | | | | |
| Depth (ir | | C | | | | | Hydric Soil Prese | nt? Yes X No |
| Remarks: | | | | | | | - | |
| | m is revised from No 2015 Errata. (http://w | | | | | | | CS Field Indicators of Hydric Soils, |
| | 2015 Enala. (http://w | /ww.nrcs. | usua.gov/internet/F | | | 5/nrcs 14 | 2p2_051293.docx) | |
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| Applicant/Owner: TDI State: NY Sampling Point: CII-2 Investigator(s): N. Frazer, S. Berryman Section, Township, Range: | t/Site: CHPE | City/County: Dresde | n/Washington | Sampling Date: 10 |)/14/21 |
|--|---|------------------------------------|---------------------------|----------------------|-----------|
| | ant/Owner: TDI | | State: NY | Sampling Point: | CII-2 Upl |
| Landform (hillside terrace etc.); hillsione Local relief (concave convex none); flat Sione %; (| gator(s): N. Frazer, S. Berryman | Section, To | wnship, Range: | | |
| | rm (hillside, terrace, etc.): hillslope | Local relief (concave, conve | x, none): <u>flat</u> | Slope % | b: 0 |
| Subregion (LRR or MLRA): LRR R Lat: 43-40-06.69N Long: 73-25-05.69W Datum: | jion (LRR or MLRA): LRR R | _at: <u>43-40-06.69N</u> Long: | 73-25-05.69W | Datum: | |
| Soil Map Unit Name: Oakville loamy fine sand NWI classification: N/A | ap Unit Name: Oakville loamy fine sand | | NWI classification: | : <u>N/A</u> | |
| Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.) | natic / hydrologic conditions on the site typic | for this time of year? Yes x | No (If no, | explain in Remarks.) | |
| Are Vegetation, Soil, or Hydrologysignificantly disturbed? Are "Normal Circumstances" present? Yes No | getation, Soil, or Hydrology | significantly disturbed? Are "Norn | nal Circumstances" pres | sent? Yes <u>x</u> N | o |
| Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, explain any answers in Remarks.) | getation, Soil, or Hydrology | naturally problematic? (If needed | l, explain any answers ir | n Remarks.) | |
| SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, et | MARY OF FINDINGS – Attach site | nap showing sampling point locat | ions, transects, in | nportant feature | s, etc. |

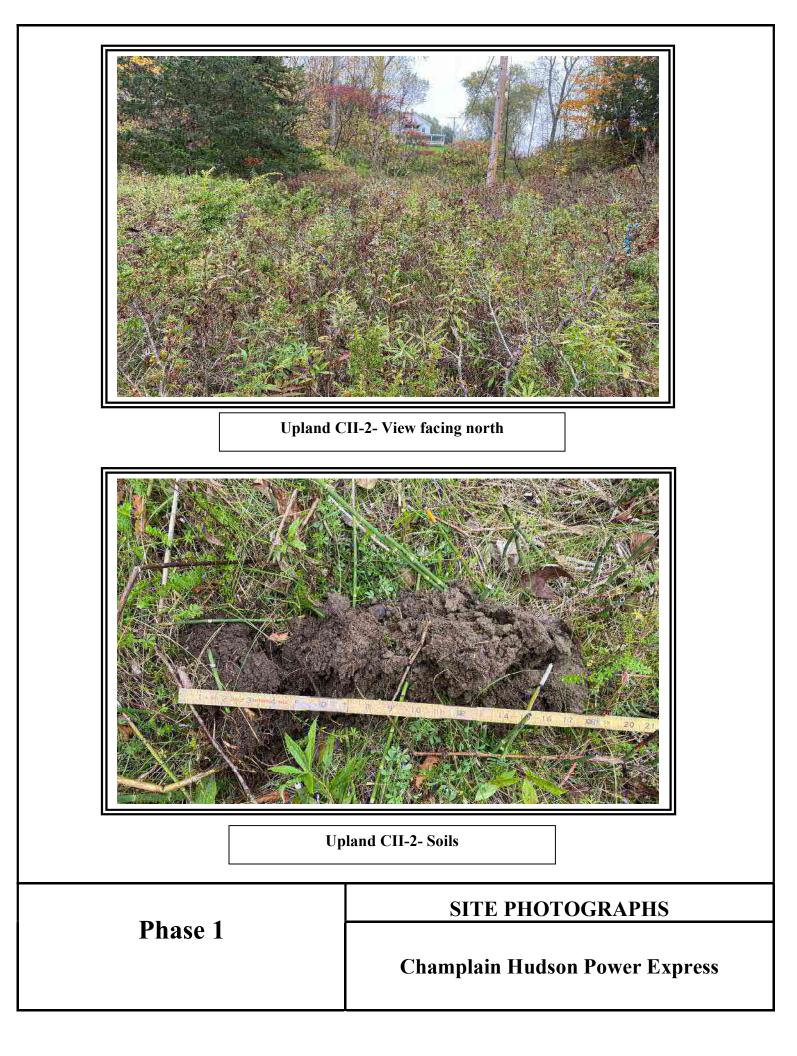
| Hydrophytic Vegetation Present? | Yes X | No | Is the Sampled Area within a Wetland? Yes No _X If yes, optional Wetland Site ID: |
|---|---------------------|-----------------|---|
| Hydric Soil Present? | Yes | No _ X | |
| Wetland Hydrology Present? | Yes | No _ X | |
| Remarks: (Explain alternative procedure Successional old field. | es here or in a sej | parate report.) | |

| Wetland Hydrology Indicators: | | | Secondary Indicators (mini | mum of two required) |
|--|---|----------------|----------------------------|----------------------|
| Primary Indicators (minimum of one is requir | ed; check all that apply) | | Surface Soil Cracks (B | 6) |
| Surface Water (A1) | Water-Stained Leaves (B9) | | Drainage Patterns (B1 | 0) |
| High Water Table (A2) | Aquatic Fauna (B13) | | Moss Trim Lines (B16) |) |
| Saturation (A3) | Marl Deposits (B15) Dry-Season Water Table (C2) | | | |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | | Crayfish Burrows (C8) | |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Ro | oots (C3) | Saturation Visible on A | verial Imagery (C9) |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | | Stunted or Stressed Pl | ants (D1) |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soil | s (C6) | Geomorphic Position (| D2) |
| Iron Deposits (B5) | Thin Muck Surface (C7) | | Shallow Aquitard (D3) | |
| Inundation Visible on Aerial Imagery (B7 |) Other (Explain in Remarks) | | Microtopographic Relie | ef (D4) |
| Sparsely Vegetated Concave Surface (B | 8) | | FAC-Neutral Test (D5) | |
| Field Observations: | | | | |
| Surface Water Present? Yes | No x Depth (inches): | | | |
| Water Table Present? Yes | No x Depth (inches): | | | |
| Saturation Present? Yes | No x Depth (inches): | Wetlan | d Hydrology Present? | Yes No X |
| (includes capillary fringe) | , | | | |
| Describe Recorded Data (stream gauge, mo | nitoring well, aerial photos, previous inspe | ections), if a | available: | |
| | | , | | |
| | | | | |
| Remarks: | | | | |
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Sampling Point: CII-2 Upl

| Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | | |
|---------------------|--|--|--|---|---|
| 15 | Yes | FAC | Number of Dominant Species That Are OBL, FACW, or FAC: | 4 | (A) |
| | · | | Total Number of Dominant Species Across All Strata: | 6 | _(B) |
| | · | | Percent of Dominant Species That Are OBL, FACW, or FAC: | 66.7% | (A/B) |
| _ | | | Prevalence Index worksheet: | | _ · · |
| 15 | =Total Cover | | Total % Cover of: | Multiply by: | |
|) | | | OBL species 0 x 1 | =0 | |
| 15 | Yes | FAC | FACW species 0 x 2 | =0 | |
| 10 | Yes | FACU | FAC species 80 x 3 | = 240 | |
| 5 | No | UPL | FACU species 57 x 4 | = 228 | |
| 5 | No | FACU | UPL species 5 x 5 | = 25 | |
| | | | Column Totals: 142 (A) | 493 | (B) |
| _ | | | Prevalence Index = B/A = | 3.47 | |
| | | | Hydrophytic Vegetation Indicator | 's: | |
| 35 | =Total Cover | | | | |
| | | | X 2 - Dominance Test is >50% | - | |
| 20 | Yes | FAC | | | |
| | | | | (Provide sur | oporting |
| | | | | • • | |
| | | | Problematic Hydrophytic Veget | ation ¹ (Evol | ain) |
| | | 1400 | | | aii i <i>)</i> |
| | 110 | | | | must |
| | · | | · · · | biomatio. | |
| | | | | | |
| | · | | , , , , , , , , , , , , , , , , , , , | | neight. |
| | · | | | | OBH |
| 97 | =Total Cover | | | | ardless |
|) | • | | | | 28 ft in |
| | | | height. | | 2010111 |
| | | | | | |
| | | | Hydrophytic | | |
| | | | | | |
| | | | Vegetation | lo | |
| | $ \begin{array}{c} $ | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $= \frac{15}{15} = \text{Total Cover}$ $= \frac{15}{10} = \text{Total Cover}$ $= \frac{15}{10} = \text{Total Cover}$ $= \frac{10}{5} = \text{No} = \text{FACU}$ $= \frac{10}{5} = \text{No} = \text{FACU}$ $= \frac{20}{10} = \text{Yes} = \text{FAC}$ $= \frac{10}{10} = \frac{10}{10} =$ | Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: | Number of Dominant Species That Are OBL, FACW, or FAC: 4 Total Number of Dominant Species Across All Strata: 6 Percent of Dominant Species FACW, or FAC: 66.7% Prevalence Index worksheet: Total % Cover of: Multiply by: 15 Yes FAC FACU 5 No UPL FAC species 0 x 1 = 0 5 No UPL FACU species 57 x 4 = 228 5 No FACU FACU species 57 x 4 = 228 5 No FACU UPL species 5 x 5 = 25 6 Column Totals: 142 (A) 493 97<=Total Cover |

| Profile Desc | cription: (Describe | to the de | pth needed to docu | ument t | he indica | ator or co | onfirm the absence of inc | licators.) |
|---------------------------|-----------------------------|-------------|------------------------|----------|-------------------|------------------|---------------------------|---|
| Depth | Matrix | | Redo | x Featu | res | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-7 | 10YR 3/2 | 100 | | | | | Loamy/Clayey | |
| 7-15 | 10YR 5/3 | 100 | | | | | Sandy | with gravel |
| | | | | | . <u> </u> | | | |
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| | | | | | | | | |
| | oncentration, D=Dep | letion, RM | Reduced Matrix, N | /IS=Mas | ked Sand | d Grains. | | ore Lining, M=Matrix. |
| Hydric Soil | | | Debayelue Bele | | | | | roblematic Hydric Soils ³ : |
| Histosol | | | Polyvalue Belo | | ice (50) (i | LKK K, | | A10) (LRR K, L, MLRA 149B) |
| | pipedon (A2) | | MLRA 149B | <i>,</i> | | | | e Redox (A16) (LRR K, L, R) |
| | istic (A3) | | Thin Dark Surf | | | | | Peat or Peat (S3) (LRR K, L, R) |
| | en Sulfide (A4) | | High Chroma S | | | | | elow Surface (S8) (LRR K, L) |
| | d Layers (A5) | () | Loamy Mucky | | | R K, L) | | urface (S9) (LRR K, L) |
| | d Below Dark Surface | e (A11) | Loamy Gleyed | | (F2) | | | ese Masses (F12) (LRR K, L, R) |
| | ark Surface (A12) | | Depleted Matri | | -0) | | | oodplain Soils (F19) (MLRA 149B) |
| | /lucky Mineral (S1) | | Redox Dark Su | ` | , | | | c (TA6) (MLRA 144A , 145 , 149B) |
| | Gleyed Matrix (S4) | | Depleted Dark | | . , | | | Material (F21) |
| | Redox (S5) | | Redox Depres | | 8) | | | v Dark Surface (F22) |
| | l Matrix (S6) rface (S7) | | Marl (F10) (LR | R K, L) | | | Other (Expla | in in Remarks) |
| | | | | | | | | |
| ³ Indicators o | f hydrophytic vegetat | tion and w | etland hydrology mu | ust be p | resent, ur | nless dist | urbed or problematic. | |
| | Layer (if observed): | | | | | | | |
| Type: Depth (ii | nor | | | | | | Hydric Soil Present? | Yes No X |
| | | | | | | | | Yes <u>No X</u> |
| Remarks: | m is revised from No | orthcontrol | and Northeast Reg | ional Si | Innlemen | t Version | 2.0 to include the NRCS F | Field Indicators of Hydric Soils, |
| | 2015 Errata. (http://v | | | | | | | |
| | | | 0 | _ | | | , | |
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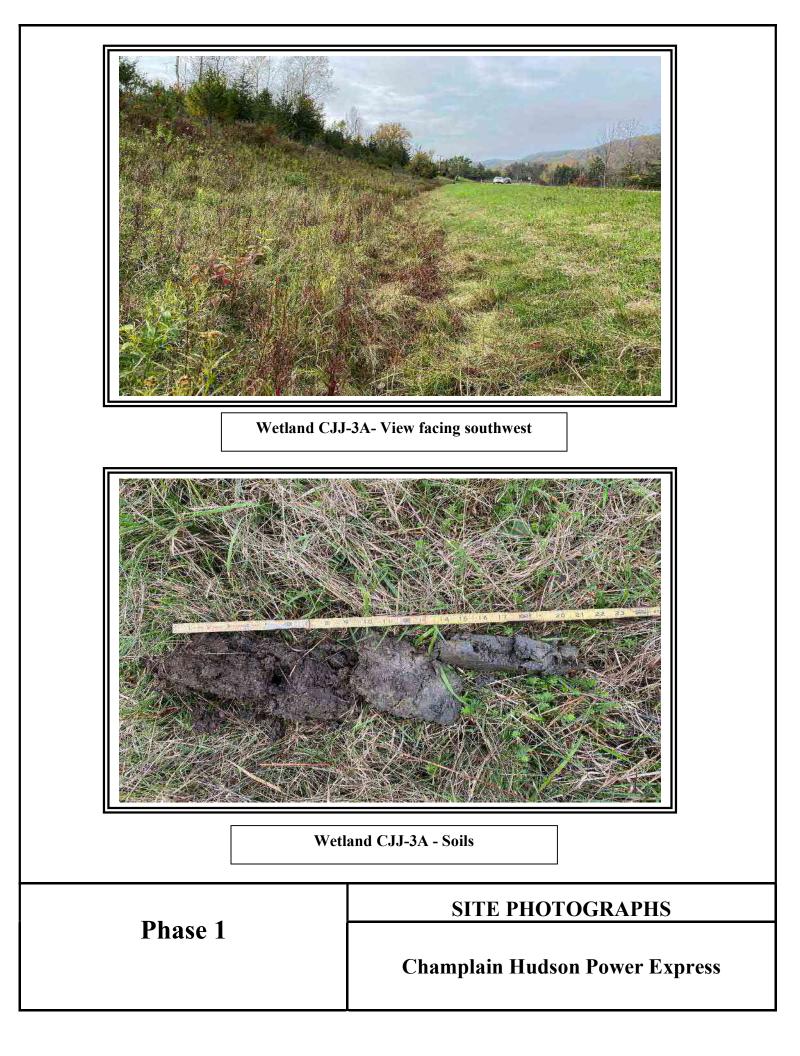
| Project/Site: CHPE | City | //County: Dresden/Washington | Sampling Date: 10/14/21 |
|--|---------------------------|---|----------------------------|
| Applicant/Owner: TDI | | State: NY | Sampling Point: CJJ-3A Wet |
| Investigator(s): N. Frazer, S. Berryman | | Section, Township, Range: | |
| Landform (hillside, terrace, etc.): ditch | Local relief | (concave, convex, none): <u>concave</u> | Slope %: 0-1 |
| Subregion (LRR or MLRA): LRR R | Lat: 43-39-50.07N | Long: <u>73-25-16.06W</u> | Datum: |
| Soil Map Unit Name: Vergennes silty clay | | NWI classification: | PEM |
| Are climatic / hydrologic conditions on the site typica | al for this time of year? | Yes <u>x</u> No (If no, e | explain in Remarks.) |
| Are Vegetation, Soil, or Hydrology | significantly disturbed? | Are "Normal Circumstances" pres | ent? Yes <u>x</u> No |
| Are Vegetation, Soil, or Hydrology | naturally problematic? | (If needed, explain any answers ir | n Remarks.) |
| SUMMARY OF FINDINGS – Attach site | map showing samplin | g point locations, transects, im | portant features, etc. |
| Hydrophytic Vegetation Present? Yes | X No Is | the Sampled Area | |
| Hydric Soil Present? Yes | X No w | rithin a Wetland? Yes X | No |
| Wetland Hydrology Present? Yes | X No If | yes, optional Wetland Site ID: | |
| Remarks: (Explain alternative procedures here or Linear vegetated ditch. | in a separate report.) | | |
| | | | |

| Wetland Hydrology Indicators: | | Secondary Indicators (minimum of two required) |
|--|---|--|
| Primary Indicators (minimum of one is require | ed; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) | Water-Stained Leaves (B9) | Drainage Patterns (B10) |
| High Water Table (A2) | Aquatic Fauna (B13) | Moss Trim Lines (B16) |
| Saturation (A3) | Marl Deposits (B15) | Dry-Season Water Table (C2) |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | Crayfish Burrows (C8) |
| Sediment Deposits (B2) | X Oxidized Rhizospheres on Living Roo | ots (C3) Saturation Visible on Aerial Imagery (C9) |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | Stunted or Stressed Plants (D1) |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils | (C6) X Geomorphic Position (D2) |
| Iron Deposits (B5) | Thin Muck Surface (C7) | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) |) Other (Explain in Remarks) | Microtopographic Relief (D4) |
| Sparsely Vegetated Concave Surface (B | 8) | X FAC-Neutral Test (D5) |
| Field Observations: | | |
| Surface Water Present? Yes | No x Depth (inches): | |
| Water Table Present? Yes x | No Depth (inches): 16 | |
| Saturation Present? Yes x | No Depth (inches): 19 | Wetland Hydrology Present? Yes X No |
| (includes capillary fringe) | | |
| Describe Recorded Data (stream gauge, mor | nitoring well, aerial photos, previous inspec | tions), if available: |
| | | |
| Demerker | | |
| Remarks: Culvert under Route 22 at flag CJJ-1A. | | |
| Culvert under Noute 22 at hag 000-1A. | | |
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Sampling Point: CJJ-3A Wet

| <u>Tree Stratum</u> (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|---|---------------------|----------------------|---------------------|---|
| 1, | | | | Number of Dominant Species |
| 2. | | | | That Are OBL, FACW, or FAC:(A) |
| 3 4 | | | | Total Number of Dominant Species Across All Strata: 1 (B) |
| 5. | | | | Percent of Dominant Species |
| 6 | | | | That Are OBL, FACW, or FAC: 100.0% (A/B) |
| 7 | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 80 x 1 = 80 |
| 1. Cornus amomum | 3 | No | FACW | FACW species 8 x 2 = 16 |
| 2 | | | | FAC species x 3 = 45 |
| 3 | | | | FACU species x 4 = 8 |
| 4 | | | | UPL species x 5 = |
| 5 | | | | Column Totals: 105 (A) 149 (B) |
| 6 | | | | Prevalence Index = B/A =1.42 |
| 7 | | | | Hydrophytic Vegetation Indicators: |
| | 3 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% |
| 1. Lythrum salicaria | 65 | Yes | OBL | X 3 - Prevalence Index is ≤3.0 ¹ |
| 2. Scirpus atrovirens | 10 | No | OBL | 4 - Morphological Adaptations ¹ (Provide supporting |
| 3. Euthamia graminifolia | 15 | No | FAC | data in Remarks or on a separate sheet) |
| 4. Solidago gigantea | 5 | No | FACW | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. Typha angustifolia | 5 | No | OBL | |
| 6. Lotus corniculatus | 2 | No | FACU | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 7. | | | | Definitions of Vegetation Strata: |
| 8 | | | | _ |
| 9. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 10. | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 11. | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | 102 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | Woody vines – All woody vines greater than 3.28 ft in |
| 1 | | | | height. |
| 2 | | | | Under a britte |
| 3 | | | | Hydrophytic Vegetation |
| 4 | | | | Present? Yes X No |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a sepa | rate sheet.) | | | |
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| Profile Desc | ription: (Describe | to the de | pth needed to docu | ument ti | he indica | ator or co | onfirm the absence o | f indicators.) |
|---------------------------|------------------------|------------|------------------------|------------|-------------------|------------------|--------------------------|--|
| Depth | Matrix | | Redo | x Featur | es | | | |
| (inches) | Color (moist) | % | Color (moist) | | Type ¹ | Loc ² | Texture | Remarks |
| 0-6 | 10YR 3/1 | 98 | 10YR 3/4 | 2 | С | PL | Loamy/Clayey | Distinct redox concentrations |
| 6-10 | 10YR 5/1 | 85 | 10YR 5/3 | 15 | C | M | Loamy/Clayey | Distinct redox concentrations |
| 10-19 | 2.5Y 4/1 | 55 | 10YR 6/6 | 45 | C | M | Loamy/Clayey | Prominent redox concentrations |
| 19-21 | 10YR 4/2 | 100 | | | | | Sandy | with gravel |
| | | | | | | | | |
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| | | | | | | | | |
| | oncentration, D=Dep | letion RM | | /S-Mae | ked Sand | | ² Location: P | L=Pore Lining, M=Matrix. |
| Hydric Soil | | | | 10-11183 | Keu Gand | | | or Problematic Hydric Soils ³ : |
| Histosol | | | Polyvalue Belo | w Surfa | ce (S8) (| LRR R. | | ick (A10) (LRR K, L, MLRA 149B) |
| | bipedon (A2) | | MLRA 149B | | | | | rairie Redox (A16) (LRR K, L, R) |
| | stic (A3) | | Thin Dark Surf | , | | MLRA | | icky Peat or Peat (S3) (LRR K, L, R) |
| | n Sulfide (A4) | | High Chroma S | | | | | e Below Surface (S8) (LRR K, L) |
| | d Layers (A5) | | Loamy Mucky | | | | | *k Surface (S9) (LRR K, L) |
| | d Below Dark Surface | e (A11) | Loamy Gleyed | | | , _, | | nganese Masses (F12) (LRR K, L, R) |
| | ark Surface (A12) | - () | Depleted Matri | | , | | | nt Floodplain Soils (F19) (MLRA 149B) |
| | lucky Mineral (S1) | | X Redox Dark Su | | 6) | | | podic (TA6) (MLRA 144A, 145, 149B) |
| · · · | Bleyed Matrix (S4) | | Depleted Dark | • | , | | | ent Material (F21) |
| | ledox (S5) | | Redox Depres | | · · / | | | allow Dark Surface (F22) |
| | Matrix (S6) | | Marl (F10) (LR | • | , | | | xplain in Remarks) |
| | rface (S7) | | | | | | ` | · · · · |
| | | | | | | | | |
| ³ Indicators o | f hydrophytic vegetat | tion and w | /etland hydrology mເ | ust be pr | resent, ur | nless dist | urbed or problematic. | |
| Restrictive | Layer (if observed): | | | | | | | |
| Type: | non | ne | | | | | | |
| Depth (ii | nches): | | | | | | Hydric Soil Preser | nt? Yes <u>X</u> No |
| Remarks: | | | | | | | • | |
| | | | | | | | | CS Field Indicators of Hydric Soils, |
| Version 7.0, | 2015 Errata. (http://v | www.nrcs. | usda.gov/Internet/F | SE_DOO | CUMENT | S/nrcs14 | 2p2_051293.docx) | |
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| Project/Site: CHPE | City/County: Dresden/Washington Sampling Date: 10/14/21 |
|---|--|
| Applicant/Owner: TDI | State: NY Sampling Point: CJJ-3A-Upl |
| Investigator(s): N. Frazer, S. Berryman | Section, Township, Range: |
| Landform (hillside, terrace, etc.): hillslope Local | relief (concave, convex, none): none Slope %: 1 |
| Subregion (LRR or MLRA): LRR R Lat: 43-39-50.07N | Long: 73-25-16.06W Datum: |
| Soil Map Unit Name: Vergennes silty clay | NWI classification: N/A |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes x No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly distur | rbed? Are "Normal Circumstances" present? Yes x No |
| Are Vegetation, Soil, or Hydrologynaturally problems | atic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sam | pling point locations, transects, important features, etc. |

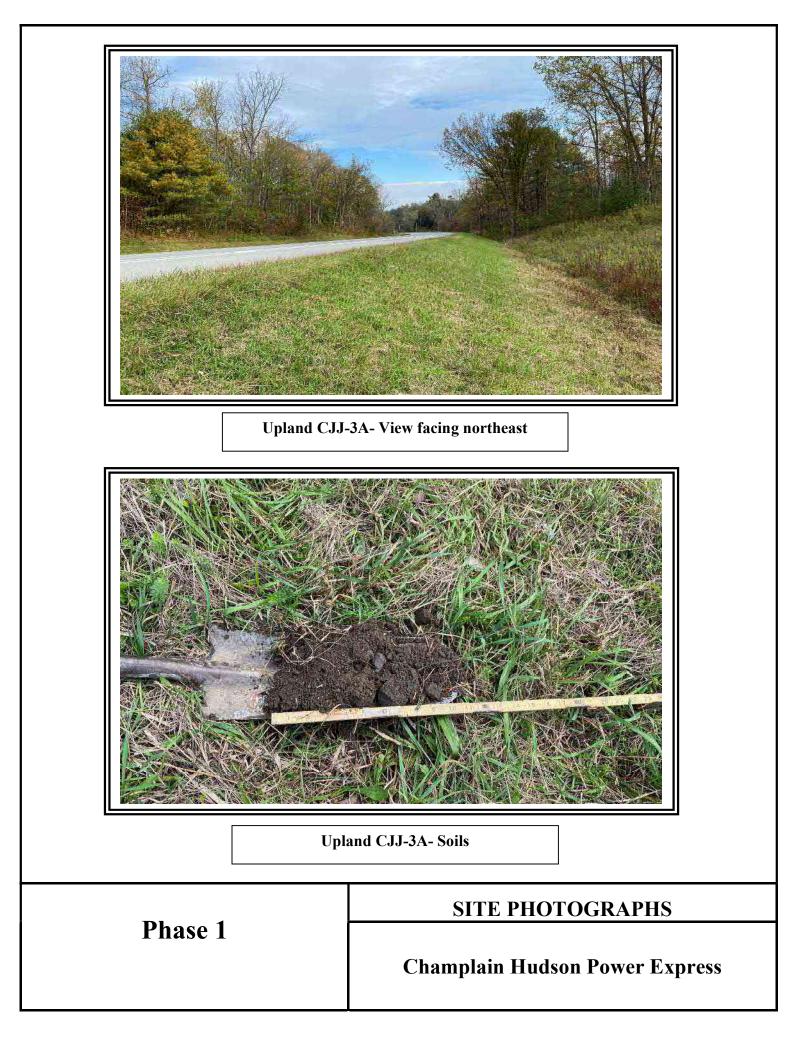
| Hydrophytic Vegetation Present? | Yes | No X | Is the Sampled Area No X within a Wetland? Yes No X If yes, optional Wetland Site ID: |
|--|------------------|-------------------|---|
| Hydric Soil Present? | Yes | No X | |
| Wetland Hydrology Present? | Yes | No X | |
| Remarks: (Explain alternative procedu Mowed roadside. | res here or in a | separate report.) | |

| Wetland Hydrology Indicators | 5: | | | | Secondary Indicators (minin | <u>mum of two required)</u> |
|---|------------------|---------------|--------------------------------|-----------|-----------------------------|-----------------------------|
| Primary Indicators (minimum of | one is required; | ; check all t | that apply) | | Surface Soil Cracks (B6 | 6) |
| Surface Water (A1) | | Water-S | Stained Leaves (B9) | | Drainage Patterns (B10 |)) |
| High Water Table (A2) | | Aquatic | Fauna (B13) | | Moss Trim Lines (B16) | |
| Saturation (A3) | | Marl De | posits (B15) | | Dry-Season Water Tabl | le (C2) |
| Water Marks (B1) | | Hydroge | en Sulfide Odor (C1) | | Crayfish Burrows (C8) | |
| Sediment Deposits (B2) | | Oxidize | d Rhizospheres on Living Ro | oots (C3) | Saturation Visible on Ae | erial Imagery (C9) |
| Drift Deposits (B3) | | Presend | ce of Reduced Iron (C4) | | Stunted or Stressed Pla | ants (D1) |
| Algal Mat or Crust (B4) | _ | Recent | Iron Reduction in Tilled Soils | s (C6) | Geomorphic Position (D | 02) |
| Iron Deposits (B5) | | Thin Mu | ick Surface (C7) | | Shallow Aquitard (D3) | |
| Inundation Visible on Aerial | Imagery (B7) | Other (E | Explain in Remarks) | | Microtopographic Relief | f (D4) |
| Sparsely Vegetated Concav | ve Surface (B8) | | | | FAC-Neutral Test (D5) | |
| Field Observations: | | | | | | |
| Surface Water Present? Y | es N | No x | Depth (inches): | | | |
| Water Table Present? Y | es N | No x | Depth (inches): | | | |
| | | | | | | |
| Saturation Present? Y | es N | No x | Depth (inches): | Wetlan | d Hydrology Present? | Yes No X |
| Saturation Present? Y (includes capillary fringe) | es N | No <u>x</u> | Depth (inches): | Wetlan | d Hydrology Present? | Yes No _X |
| | | | · · · / | | , | Yes <u>No X</u> |
| (includes capillary fringe) | | | · · · / | | , | Yes <u>No X</u> |
| (includes capillary fringe) Describe Recorded Data (strear | | | · · · / | | , | Yes <u>No X</u> |
| (includes capillary fringe) | | | · · · / | | , | Yes No _X |
| (includes capillary fringe) Describe Recorded Data (strear | | | · · · / | | , | Yes No _X |
| (includes capillary fringe) Describe Recorded Data (strear | | | · · · / | | , | Yes <u>No X</u> |
| (includes capillary fringe) Describe Recorded Data (strear | | | · · · / | | , | Yes <u>No X</u> |
| (includes capillary fringe) Describe Recorded Data (strear | | | · · · / | | , | Yes <u>No X</u> |
| (includes capillary fringe) Describe Recorded Data (strear | | | · · · / | | , | Yes <u>No X</u> |
| (includes capillary fringe) Describe Recorded Data (strear | | | · · · / | | , | Yes <u>No X</u> |
| (includes capillary fringe) Describe Recorded Data (strear | | | · · · / | | , | Yes <u>No X</u> |
| (includes capillary fringe) Describe Recorded Data (strear | | | · · · / | | , | Yes <u>No X</u> |

Sampling Point: CJJ-3A-Upl

| <u>Tree Stratum</u> (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|---|---------------------|----------------------|---------------------|---|
| 1. | | 000003 | | |
| 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A) |
| 3. 4. | | | | Total Number of Dominant Species Across All Strata: 1 (B) |
| 5 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) |
| 7. | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species x 1 = |
| 1 | | | | FACW species 0 x 2 = 0 |
| 2 | | | | FAC species x 3 =60 |
| 3 | | | | FACU species 105 x 4 = 420 |
| 4 | | | | UPL species16x 5 =80 |
| 5. | | | | Column Totals: 141 (A) 560 (B) |
| 6. | | | | Prevalence Index = B/A = 3.97 |
| 7. | | | | Hydrophytic Vegetation Indicators: |
| | | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% |
| 1. Pastinaca sativa | 10 | No | UPL | 3 - Prevalence Index is ≤3.0 ¹ |
| 2. Daucus carota | 5 | No | UPL | 4 - Morphological Adaptations ¹ (Provide supporting |
| 3. Galium boreale | 20 | No | FAC | data in Remarks or on a separate sheet) |
| 4. Securigera varia | 1 | No | UPL | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. Plantago lanceolata | 5 | No | FACU | |
| 6. Poa pratensis | 100 | Yes | FACU | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 7 | | | | Definitions of Vegetation Strata: |
| 8 | | | | - |
| 9. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 10 | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | | | | Herb – All herbaceous (non-woody) plants, regardless |
| | 141 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size:30') 1. | | | | Woody vines – All woody vines greater than 3.28 ft in height. |
| 2. | | | | |
| | | | | Hydrophytic |
| | | | | Vegetation Present? Yes NoX |
| 4 | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a sepa | | | | |
| | ale sheet.) | | | |
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| Profile Des | cription: (Describe | to the de | pth needed to docu | ument t | he indica | tor or co | confirm the absence of indicators.) | |
|----------------------------|-----------------------|------------|------------------------|-----------------|-------------------|------------------|---|-------------|
| Depth | Matrix | | Redo | x Featu | res | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture Remarks | |
| 0-5 | 10YR 2/2 | 100 | | | | | Sandy | |
| 5-9 | 10YR 2/2 | 100 | | | | | Sandy with rocks | |
| | | | | | | | i | |
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| | | | | | | | | |
| ¹ Type: C=C | oncentration, D=Dep | letion. RM | I=Reduced Matrix, M | /S=Mas | ked Sanc | Grains. | . ² Location: PL=Pore Lining, M=Matrix. | |
| Hydric Soil | | | | | | | Indicators for Problematic Hydric Soils ³ : | |
| Histoso | | | Polyvalue Belo | w Surfa | ice (S8) (I | RR R, | 2 cm Muck (A10) (LRR K, L, MLRA 149B) | |
| | pipedon (A2) | | MLRA 149B | | . , . | | Coast Prairie Redox (A16) (LRR K, L, R) | |
| Black H | istic (A3) | | Thin Dark Surf | ace (S9 |) (LRR R | MLRA | 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R | !) |
| Hydroge | en Sulfide (A4) | | High Chroma S | Sands (S | S11) (LRF | R K, L) | Polyvalue Below Surface (S8) (LRR K, L) | |
| Stratifie | d Layers (A5) | | Loamy Mucky | Mineral | (F1) (LRI | R K, L) | Thin Dark Surface (S9) (LRR K, L) | |
| Deplete | d Below Dark Surfac | e (A11) | Loamy Gleyed | Matrix | (F2) | | Iron-Manganese Masses (F12) (LRR K, L, F | र) |
| Thick D | ark Surface (A12) | | Depleted Matri | x (F3) | | | Piedmont Floodplain Soils (F19) (MLRA 149 | }B) |
| Sandy M | Mucky Mineral (S1) | | Redox Dark Su | urface (F | =6) | | Mesic Spodic (TA6) (MLRA 144A, 145, 149 | B) |
| | Gleyed Matrix (S4) | | Depleted Dark | Surface | e (F7) | | Red Parent Material (F21) | |
| | Redox (S5) | | Redox Depress | - | - | | Very Shallow Dark Surface (F22) | |
| | d Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other (Explain in Remarks) | |
| Dark Su | ırface (S7) | | | | | | | |
| ³ Indicators of | of hydrophytic vegeta | tion and w | /etland hydrology mι | ust be p | resent, ur | iless dist | sturbed or problematic. | |
| | Layer (if observed): | | | | | | | |
| Type: | roc | k | | | | | | |
| Depth (i | inches): | 9 | | | | | Hydric Soil Present? Yes No X | |
| Remarks: | | | | | | | | |
| | | | | | | | n 2.0 to include the NRCS Field Indicators of Hydric Soils, | |
| Version 7.0, | 2015 Errata. (http:// | www.nrcs. | usda.gov/Internet/FS | SE_DO | CUMENT | S/nrcs14 | 42p2_051293.docx) | |
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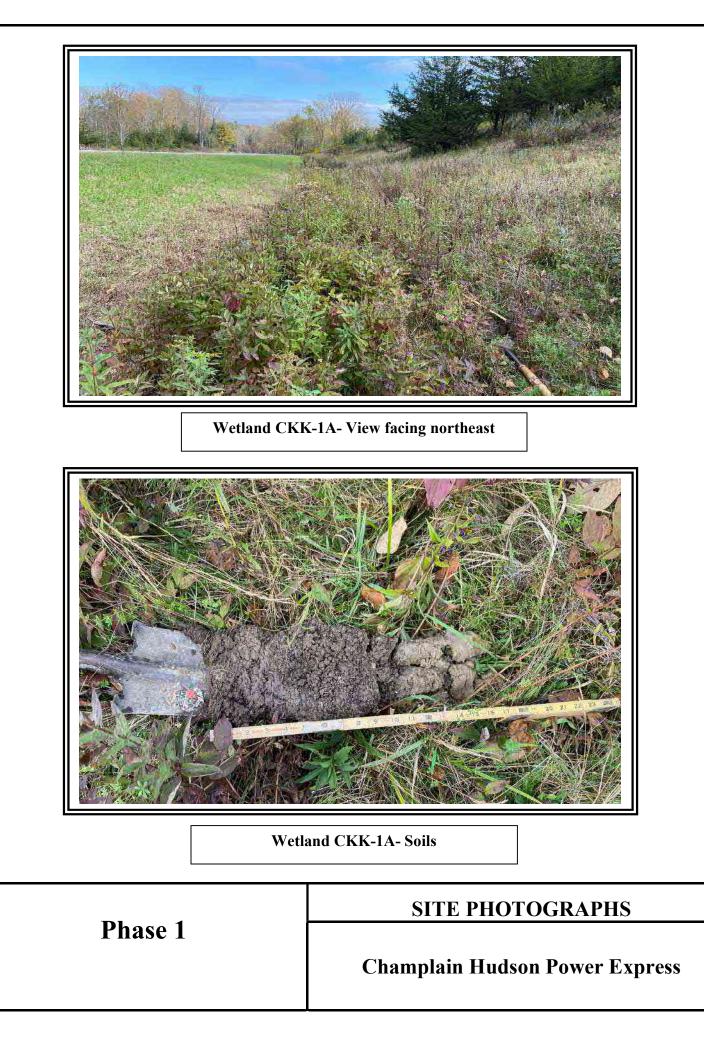
| Project/Site: CHPE | City/County: Dresden/Washington Sampling Date: 10/14/21 |
|---|---|
| Applicant/Owner: TDI | State: NY Sampling Point: CKK-1A Wet |
| Investigator(s): N. Frazer, S. Berryman | Section, Township, Range: |
| Landform (hillside, terrace, etc.): depression Lo | ocal relief (concave, convex, none): <u>concave</u> Slope %: <u>0</u> |
| Subregion (LRR or MLRA): LRR R Lat: 43-39-47.52W | Long: <u>73-25-20.34W</u> Datum: |
| Soil Map Unit Name: Vergennes silty clay | NWI classification: PSS |
| Are climatic / hydrologic conditions on the site typical for this time of year | ar? Yes x No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly di | isturbed? Are "Normal Circumstances" present? Yes x No |
| Are Vegetation, Soil, or Hydrologynaturally probl | lematic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing s | ampling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No |
| Wetland Hydrology Present? Yes X No | If yes, optional Wetland Site ID: |
| Remarks: (Explain alternative procedures here or in a separate report. Linear vegetated ditch. |) |
| | |

| Wetland Hydrology Indicators: | | | Secondary Indicators (minimum of two required) |
|---|--|---------------|--|
| Primary Indicators (minimum of one is require | ed; check all that apply) | | Surface Soil Cracks (B6) |
| Surface Water (A1) | Water-Stained Leaves (B9) | | Drainage Patterns (B10) |
| High Water Table (A2) | Aquatic Fauna (B13) | | Moss Trim Lines (B16) |
| Saturation (A3) | Marl Deposits (B15) | | Dry-Season Water Table (C2) |
| Water Marks (B1) Hydrogen Sulfide Odor (C1) | | | Crayfish Burrows (C8) |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Ro | oots (C3) | Saturation Visible on Aerial Imagery (C9) |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | | Stunted or Stressed Plants (D1) |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils | s (C6) | X Geomorphic Position (D2) |
| Iron Deposits (B5) | Thin Muck Surface (C7) | | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) |) Other (Explain in Remarks) | | Microtopographic Relief (D4) |
| Sparsely Vegetated Concave Surface (B | 8) | | X FAC-Neutral Test (D5) |
| Field Observations: | | | |
| Surface Water Present? Yes | No x Depth (inches): | | |
| Water Table Present? Yes | No x Depth (inches): | | |
| Saturation Present? Yes x | No Depth (inches): 10 | Wetlan | d Hydrology Present? Yes X No |
| (includes capillary fringe) | | | |
| | | | |
| Describe Recorded Data (stream gauge, mor | nitoring well, aerial photos, previous inspe | ctions), if | available: |
| Describe Recorded Data (stream gauge, mor | nitoring well, aerial photos, previous inspe | ctions), if | available: |
| Describe Recorded Data (stream gauge, mor | nitoring well, aerial photos, previous inspe | ctions), if | available: |
| Describe Recorded Data (stream gauge, mor Remarks: | nitoring well, aerial photos, previous inspe | ctions), if | available: |
| | nitoring well, aerial photos, previous inspe | ctions), if | available: |
| Remarks: | nitoring well, aerial photos, previous inspe | ctions), if | available: |
| Remarks: | nitoring well, aerial photos, previous inspe | ctions), if | available: |
| Remarks: | nitoring well, aerial photos, previous inspe | ctions), if | available: |
| Remarks: | nitoring well, aerial photos, previous inspe | ctions), if a | available: |
| Remarks: | nitoring well, aerial photos, previous inspe | ctions), if a | available: |
| Remarks: | nitoring well, aerial photos, previous inspe | ctions), if a | available: |
| Remarks: | nitoring well, aerial photos, previous inspe | ctions), if i | available: |

Sampling Point: CKK-1A Wet

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|---|---------------------|----------------------|---------------------|---|
| 1. 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC:3(A) |
| 3 4 | | | | Total Number of Dominant Species Across All Strata: <u>3</u> (B) |
| 5. 6. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) |
| 7 | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species x 1 = |
| 1. Cornus racemosa | 70 | Yes | FAC | FACW species 20 x 2 = 40 |
| 2 | | | | FAC species 86 x 3 = 258 |
| 3 | | | | FACU species x 4 = |
| 4 | | | | UPL species 2 x 5 =10 |
| 5. | | | | Column Totals: 123 (A) 323 (B) |
| 6. | | | | Prevalence Index = B/A = 2.63 |
| 7. | | | | Hydrophytic Vegetation Indicators: |
| | 70 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% |
| 1. Solidago gigantea | 20 | Yes | FACW | X 3 - Prevalence Index is ≤3.0 ¹ |
| 2. Euthamia graminifolia | 10 | No | FAC | 4 - Morphological Adaptations ¹ (Provide supporting |
| 3. Lythrum salicaria | 15 | Yes | OBL | data in Remarks or on a separate sheet) |
| 4. Equisetum arvense | 1 | No | FAC | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. Securigera varia | 2 | No | UPL | |
| 6. Galium boreale | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| | 5 | No | FAC | be present, unless disturbed or problematic. |
| 7 | | | | Definitions of Vegetation Strata: |
| 8 9 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 10 11 | | | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. |
| 12. | | | | |
| | 53 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size:30') 1. | | | | Woody vines – All woody vines greater than 3.28 ft in height. |
| 2 | | | | |
| 3 | | | | Hydrophytic Vegetation |
| 4 | | | | Present? Yes X No |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a separ | rate sheet.) | | | |
| | | | | |

| Profile Desc | cription: (Describe | to the de | pth needed to docu | ument ti | he indica | ator or co | onfirm the absence of | indicators.) |
|---------------------------|--|------------|------------------------|-----------|-------------------|------------------|---------------------------|---|
| Depth | Matrix | | Redo | x Featur | es | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-8 | 10YR 3/2 | 100 | | | | | Loamy/Clayey | |
| 8-18 | 2.5Y 5/2 | 60 | 10YR 4/6 | 35 | C | M | Loamy/Clayey | Prominent redox concentrations |
| | | | 10YR 2/1 | 5 | С | M | | Prominent redox concentrations |
| | | | | | | | | |
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| ¹ Type: C=C | oncentration, D=Dep | letion, RN | /Reduced Matrix, M | /IS=Mas | ked Sand | d Grains. | ² Location: Pl | _=Pore Lining, M=Matrix. |
| Hydric Soil | Indicators: | | | | | | Indicators fo | r Problematic Hydric Soils ³ : |
| Histosol | () | | Polyvalue Belo | | ce (S8) (| LRR R, | | ck (A10) (LRR K, L, MLRA 149B) |
| | oipedon (A2) | | MLRA 149B | , | | | | airie Redox (A16) (LRR K, L, R) |
| | istic (A3) | | Thin Dark Surf | | - | | | cky Peat or Peat (S3) (LRR K, L, R) |
| | en Sulfide (A4) | | High Chroma S | | | | | e Below Surface (S8) (LRR K, L) |
| | d Layers (A5) | | Loamy Mucky | | | R K, L) | | k Surface (S9) (LRR K, L) |
| | d Below Dark Surface | e (A11) | Loamy Gleyed | | F2) | | | ganese Masses (F12) (LRR K, L, R) |
| | ark Surface (A12) | | X Depleted Matri | | | | | t Floodplain Soils (F19) (MLRA 149B) |
| | /lucky Mineral (S1) | | Redox Dark Su | ` | , | | | oodic (TA6) (MLRA 144A, 145, 149B) |
| | Gleyed Matrix (S4) | | Depleted Dark | | . , | | | ent Material (F21) |
| | Redox (S5) | | Redox Depress | ` | 8) | | | Illow Dark Surface (F22) |
| | Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other (Ex | kplain in Remarks) |
| Dark Su | rface (S7) | | | | | | | |
| ³ Indicators o | f hydrophytic vegetat | tion and v | vetland hydrology mu | ust be pr | resent, u | nless dist | turbed or problematic. | |
| | Layer (if observed): | | | | | | | |
| Туре: | nor | ne | | | | | | |
| Depth (ii | nches): | | | | | | Hydric Soil Presen | t? Yes <u>X</u> No |
| | m is revised from No 2015 Errata. (http://v | | | | | | | S Field Indicators of Hydric Soils, |
| | | | | | | | | |
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| City/County: Dresden/Washington Sampling Date: 10/14/21 | | | | | | |
|---|--|--|--|--|--|--|
| State: NY Sampling Point: скк-4А wet | | | | | | |
| Section, Township, Range: | | | | | | |
| Local relief (concave, convex, none): <u>concave</u> Slope %: 0 | | | | | | |
| Lat: <u>43-39-46.31N</u> Long: <u>73-25-23.52W</u> Datum: | | | | | | |
| NWI classification: PEM | | | | | | |
| al for this time of year? Yes x No (If no, explain in Remarks.) | | | | | | |
| significantly disturbed? Are "Normal Circumstances" present? Yes x No | | | | | | |
| naturally problematic? (If needed, explain any answers in Remarks.) | | | | | | |
| map showing sampling point locations, transects, important features, etc. | | | | | | |
| X No Is the Sampled Area | | | | | | |
| X No within a Wetland? Yes X No | | | | | | |
| X No If yes, optional Wetland Site ID: | | | | | | |
| in a separate report.) | | | | | | |
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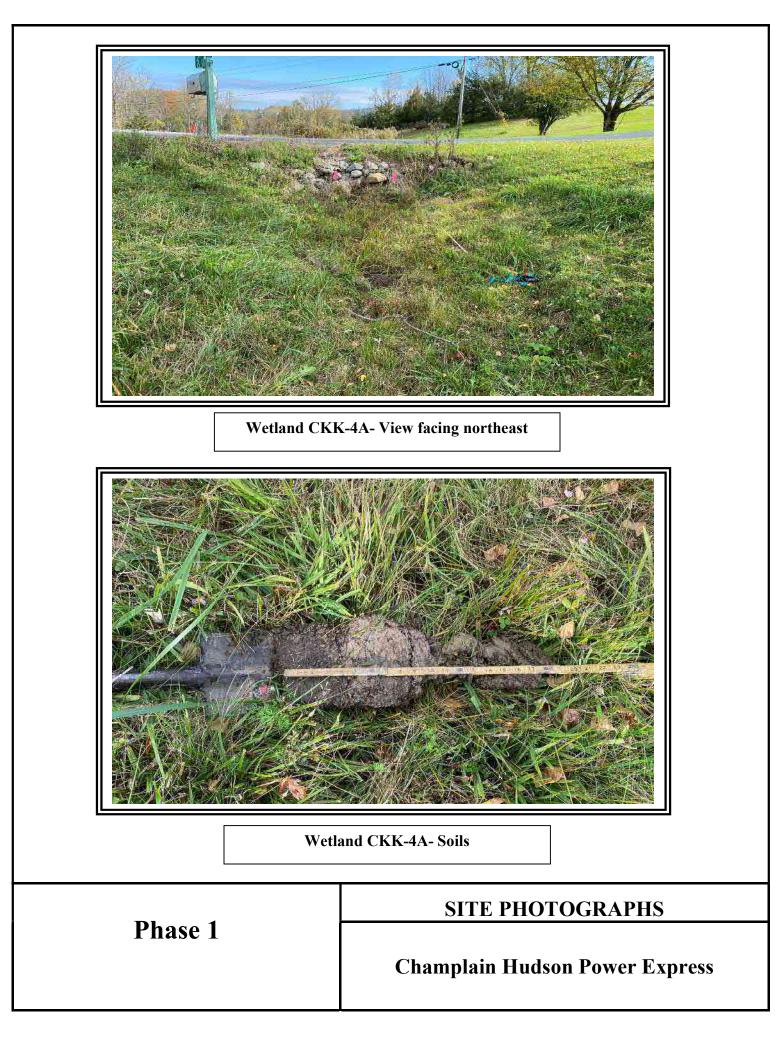
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) | | | | |
|---|--|-----------------------|---|--|--|
| Primary Indicators (minimum of one is require | Surface Soil Cracks (B6) | | | | |
| Surface Water (A1) | Drainage Patterns (B10) | | | | |
| High Water Table (A2) | Aquatic Fauna (B13) | Moss Trim Lines (B16) | | | |
| Saturation (A3) | Marl Deposits (B15) | | Dry-Season Water Table (C2) | | |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | | Crayfish Burrows (C8) | | |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Ro | oots (C3) | Saturation Visible on Aerial Imagery (C9) | | |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | | Stunted or Stressed Plants (D1) | | |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils | s (C6) | X Geomorphic Position (D2) | | |
| Iron Deposits (B5) | Thin Muck Surface (C7) | | Shallow Aquitard (D3) | | |
| Inundation Visible on Aerial Imagery (B7 |) Other (Explain in Remarks) | | Microtopographic Relief (D4) | | |
| Sparsely Vegetated Concave Surface (B | 8) | | X FAC-Neutral Test (D5) | | |
| Field Observations: | | | | | |
| Surface Water Present? Yes | No x Depth (inches): | | | | |
| Water Table Present? Yes | No x Depth (inches): | | | | |
| Water Table Present? Yes | | | | | |
| Saturation Present? Yes | No x Depth (inches): | Wetlan | d Hydrology Present? Yes X No | | |
| | | Wetlan | d Hydrology Present? Yes X No | | |
| Saturation Present? Yes | No x Depth (inches): | | | | |
| Saturation Present? Yes (includes capillary fringe) | No x Depth (inches): | | | | |
| Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mor | No x Depth (inches): | | | | |
| Saturation Present? Yes (includes capillary fringe) | No x Depth (inches): | | | | |
| Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mor | No x Depth (inches): | | | | |
| Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mor | No x Depth (inches): | | | | |
| Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mor | No x Depth (inches): | | | | |
| Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mor | No x Depth (inches): | | | | |
| Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mor | No x Depth (inches): | | | | |
| Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mor | No x Depth (inches): | | | | |
| Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mor | No x Depth (inches): | | | | |
| Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mor | No x Depth (inches): | | | | |

Sampling Point: CKK-4A Wet

| Tree Stratum (Plot size:30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|---|---------------------|----------------------|---------------------|---|
| 1. 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC:3(A) |
| 3. 4. | | | | Total Number of Dominant Species Across All Strata: <u>3</u> (B) |
| 5. 6. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) |
| 7 | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 90 x 1 =90 |
| 1. Ulmus americana | 5 | Yes | FACW | FACW species <u>5</u> x 2 = <u>10</u> |
| 2 | | | | FAC species <u>10</u> x 3 = <u>30</u> |
| 3 | | | | FACU species <u>1</u> x 4 = <u>4</u> |
| 4 | | | | UPL species 4 x 5 =20 |
| 5 | | | | Column Totals: 110 (A) 154 (B) |
| 6 | | | | Prevalence Index = B/A = 1.40 |
| 7. | | | | Hydrophytic Vegetation Indicators: |
| | 5 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| <u>Herb Stratum</u> (Plot size: 5') | | | | X 2 - Dominance Test is >50% |
| 1. Carex vulpinoidea | 55 | Yes | OBL | X 3 - Prevalence Index is ≤3.0 ¹ |
| 2 Luthrum colicorio | 25 | Yes | OBL | 4 - Morphological Adaptations ¹ (Provide supporting |
| 2. Lythrum sancana 3. Cirsium arvense | 1 | No | FACU | data in Remarks or on a separate sheet) |
| | | | | Problematic Undrandutic Magnetation ¹ (Evaluin) |
| 4. Solidago rugosa | | No | FAC | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. Galium boreale | 2 | No | FAC | ¹ Indicators of hydric soil and wetland hydrology must |
| 6. Artemisia vulgaris | 2 | No | UPL | be present, unless disturbed or problematic. |
| 7. Daucus carota | 2 | No | UPL | Definitions of Vegetation Strata: |
| 8 9. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 10. | | | | |
| 11. | | | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | | | | Herb – All herbaceous (non-woody) plants, regardless |
| | 105 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size:30') 1. | | | | Woody vines – All woody vines greater than 3.28 ft in height. |
| 2 | | | | |
| 3. | | | | Hydrophytic Veretetion |
| 4. | | | | Vegetation Present? Yes X No |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a separ | rate sheet) | | | |
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SOIL

| Profile Desc | Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) | | | | | | | |
|----------------------------|---|------------|------------------------|-----------|-------------------|------------------|--------------------------|--|
| Depth | Matrix | | Redo | x Featur | es | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-10 | 10YR 3/2 | 92 | 7.5YR 4/4 | 8 | С | M | Loamy/Clayey | Distinct redox concentrations |
| 10-19 | 10YR 5/2 | 75 | 10YR 4/6 | 20 | C | M | Loamy/Clayey | Prominent redox concentrations |
| | | | 10YR 2/1 | 5 | С | M | | Distinct redox concentrations |
| | | | | | | | | |
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| ¹ Type: C=Co | oncentration, D=Depl | letion, RI | M=Reduced Matrix, M | /IS=Mas | ked Sand | d Grains. | ² Location: F | PL=Pore Lining, M=Matrix. |
| Hydric Soil | Indicators: | | | | | | Indicators | for Problematic Hydric Soils ³ : |
| Histosol | (A1) | | Polyvalue Belo | w Surfa | ce (S8) (| LRR R, | 2 cm M | uck (A10) (LRR K, L, MLRA 149B) |
| Histic Ep | oipedon (A2) | | MLRA 149B |) | | | <u>?</u> Coast P | Prairie Redox (A16) (LRR K, L, R) |
| Black Hi | stic (A3) | | Thin Dark Surfa | ace (S9) |) (LRR R | , MLRA 1 | 49B) 5 cm M | ucky Peat or Peat (S3) (LRR K, L, R) |
| Hydroge | n Sulfide (A4) | | High Chroma S | Sands (S | 611) (LRI | R K, L) | Polyvalu | ue Below Surface (S8) (LRR K, L) |
| Stratified | I Layers (A5) | | Loamy Mucky | Mineral | (F1) (LR | R K, L) | Thin Da | rk Surface (S9) (LRR K, L) |
| | Below Dark Surface | e (A11) | Loamy Gleyed | | | | Iron-Ma | nganese Masses (F12) (LRR K, L, R) |
| Thick Da | ark Surface (A12) | | X Depleted Matri | | | | Piedmo | nt Floodplain Soils (F19) (MLRA 149B) |
| | lucky Mineral (S1) | | X Redox Dark Su | | 6) | | | Spodic (TA6) (MLRA 144A, 145, 149B) |
| Sandy G | ileyed Matrix (S4) | | Depleted Dark | Surface | (F7) | | | rent Material (F21) |
| | edox (S5) | | ? Redox Depress | sions (F | 8) | | Very Sh | allow Dark Surface (F22) |
| | Matrix (S6) | | Marl (F10) (LR | • | , | | | Explain in Remarks) |
| | face (S7) | | | , , | | | | , , |
| — | () | | | | | | | |
| ³ Indicators of | f hydrophytic vegetat | ion and v | vetland hydrology mu | ust be pr | resent, u | nless dist | urbed or problematic. | |
| Restrictive I | _ayer (if observed): | | | | | | | |
| Type: | non | e | | | | | | |
| Depth (ir | nches): | | | | | | Hydric Soil Prese | nt? Yes <u>X</u> No |
| Remarks: | | | | | | | | |
| | m is revised from No | orthcentra | I and Northeast Regi | ional Su | pplemen | t Version | 2.0 to include the NR | CS Field Indicators of Hydric Soils, |
| Version 7.0, | 2015 Errata. (http://w | ww.nrcs | .usda.gov/Internet/FS | SE_DOC | CUMENT | S/nrcs14 | 2p2_051293.docx) | |
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| Project/Site: CHPE | City/County: Dresden/Washington Sampling Date: 10/14/21 | | | | | | | |
|---|---|--|--|--|--|--|--|--|
| Applicant/Owner: TDI | State: NY Sampling Point: СКК-4А Upl | | | | | | | |
| Investigator(s): N. Frazer, S. Berryman | Section, Township, Range: | | | | | | | |
| Landform (hillside, terrace, etc.): hillslope | Local relief (concave, convex, none): none Slope %: 3 | | | | | | | |
| Subregion (LRR or MLRA): LRR R Lat: 43-39-46.3 | 1N Long: 73-25-23.52W Datum: | | | | | | | |
| Soil Map Unit Name: Vergennes silty clay | NWI classification: N/A | | | | | | | |
| Are climatic / hydrologic conditions on the site typical for this time of | year? Yes x No (If no, explain in Remarks.) | | | | | | | |
| Are Vegetation, Soil, or Hydrologysignificant | y disturbed? Are "Normal Circumstances" present? Yes x No | | | | | | | |
| Are Vegetation, Soil, or Hydrologynaturally p | roblematic? (If needed, explain any answers in Remarks.) | | | | | | | |
| SUMMARY OF FINDINGS – Attach site map showing | g sampling point locations, transects, important features, etc. | | | | | | | |

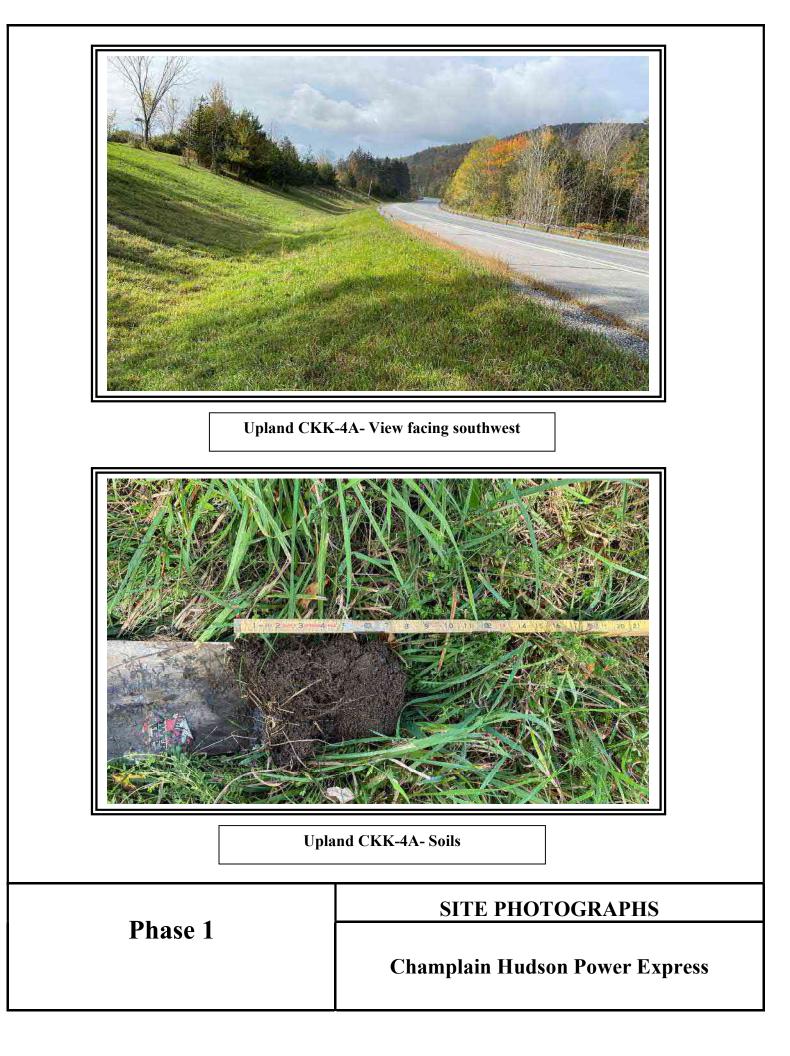
| Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? | Yes No X Yes No X Yes No X | Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: |
|---|--|--|
| Remarks: (Explain alternative procedur Mowed roadside- data point for upland | , | |

| Wetland Hydrology Indicators: | | Secondary Indicators (minimum of two required) | | | | | |
|--|---|--|--|--|--|--|--|
| Primary Indicators (minimum of one is re | Surface Soil Cracks (B6) | | | | | | |
| Surface Water (A1) | Water-Stained Leaves (B9) | Drainage Patterns (B10) | | | | | |
| High Water Table (A2) | Aquatic Fauna (B13) | Moss Trim Lines (B16) | | | | | |
| Saturation (A3) | Marl Deposits (B15) | Dry-Season Water Table (C2) | | | | | |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | Crayfish Burrows (C8) | | | | | |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Roots (C | 3) Saturation Visible on Aerial Imagery (C9) | | | | | |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | Stunted or Stressed Plants (D1) | | | | | |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils (C6) | Geomorphic Position (D2) | | | | | |
| Iron Deposits (B5) | Thin Muck Surface (C7) | Shallow Aquitard (D3) | | | | | |
| Inundation Visible on Aerial Imagery | / (B7) Other (Explain in Remarks) | Microtopographic Relief (D4) | | | | | |
| Sparsely Vegetated Concave Surface | ce (B8) | FAC-Neutral Test (D5) | | | | | |
| Field Observations: | | | | | | | |
| Surface Water Present? Yes | No x Depth (inches): | | | | | | |
| Water Table Present? Yes | No x Depth (inches): | | | | | | |
| Saturation Present? Yes | No x Depth (inches): Wet | tland Hydrology Present? Yes No X | | | | | |
| (includes capillary fringe) | | | | | | | |
| Describe Recorded Data (stream gauge | , monitoring well, aerial photos, previous inspections) | , if available: | | | | | |
| | | | | | | | |
| Remarks: | | | | | | | |
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Sampling Point: CKK-4A Upl

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|---|---------------------|----------------------|---------------------|--|
| 1. 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC:0 (A) |
| 3 4 | | | | Total Number of Dominant Species Across All Strata:1(B) |
| 5. 6. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC:0.0% (A/B) |
| 7 | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of:Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 0 x 1 = 0 |
| 1 | | | | FACW species $0 	 x 2 = 0$ |
| 2. | | | | FAC species 17 x 3 = 51 |
| 3. | | | | FACU species 110 x 4 = 440 |
| 4. | | | | UPL species 17 x 5 = 85 |
| F | | | | Column Totals: 144 (A) 576 (B) |
| 6 | | | | Prevalence Index = $B/A = 4.00$ |
| 7. | | | | Hydrophytic Vegetation Indicators: |
| ·· | | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Harb Stratum (Dist size: 5') | | | | 2 - Dominance Test is >50% |
| Herb Stratum (Plot size: 5') | 10 | Na | | |
| 1. Pastinaca sativa | 10 | No | UPL | $\frac{3}{1000} - \frac{3}{100000000000000000000000000000000000$ |
| 2. Setaria pumila | 7 | No | FAC | 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) |
| 3. Galium boreale | 10 | No | FAC | |
| 4. Daucus carota | 5 | No | UPL | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. <u>Securigera varia</u> | 2 | No | UPL | ¹ Indicators of hydric soil and wetland hydrology must |
| 6. Lotus corniculatus | 10 | No | FACU | be present, unless disturbed or problematic. |
| 7. Poa pratensis | 100 | Yes | FACU | Definitions of Vegetation Strata: |
| 8 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in |
| 9 | | | | diameter at breast height (DBH), regardless of height. |
| 10 | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 11. | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 12. | | | | Herb – All herbaceous (non-woody) plants, regardless |
| | 144 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size:30') 1. | | | | Woody vines – All woody vines greater than 3.28 ft in height. |
| 2 | | | | |
| 3 | | | | Hydrophytic Vegetation |
| 4. | | | | Present? Yes No X |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a sepa | arate sheet) | | | |
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| Profile Desc | ription: (Describe | to the de | epth needed to docu | ument t | he indica | ator or co | onfirm the absence of | indicators.) | |
|-------------------------|---|------------|------------------------|-----------------|-------------------|---------------------|---------------------------|-------------------------------|-------------------------|
| Depth | Matrix | | Redox | x Featur | es | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remark | <s< td=""></s<> |
| 0-8 | 10YR 3/2 | 100 | | | | | Loamy/Clayey | with gra | vel |
| | | | | | | | | | |
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| ¹ Type: C=Co | oncentration, D=Depl | letion, RI | /I=Reduced Matrix, M | /IS=Mas | ked Sand | d Grains. | ² Location: PL | .=Pore Lining, M=Mat | rix. |
| Hydric Soil I | ndicators: | | | | | | Indicators fo | r Problematic Hydrid | c Soils ³ : |
| Histosol | (A1) | | Polyvalue Belo | w Surfa | ce (S8) (| LRR R, | 2 cm Muc | k (A10) (LRR K, L, N | ILRA 149B) |
| Histic Ep | ipedon (A2) | | MLRA 149B |) | | | Coast Pra | airie Redox (A16) (LR | R K, L, R) |
| Black His | stic (A3) | | Thin Dark Surfa | ace (S9 |) (LRR R | , MLRA [·] | 149B)5 cm Muc | ky Peat or Peat (S3) | (LRR K, L, R) |
| Hydroge | n Sulfide (A4) | | High Chroma S | Sands (S | 611) (LRI | R K, L) | Polyvalue | Below Surface (S8) | (LRR K, L) |
| Stratified | l Layers (A5) | | Loamy Mucky | Mineral | (F1) (LR | R K, L) | Thin Dark | Surface (S9) (LRR I | (, L) |
| Depleted | Below Dark Surface | e (A11) | Loamy Gleyed | Matrix (| F2) | | Iron-Mang | ganese Masses (F12) | (LRR K, L, R) |
| Thick Da | rk Surface (A12) | | Depleted Matri | x (F3) | | | Piedmont | Floodplain Soils (F1 | 9) (MLRA 149B) |
| Sandy M | lucky Mineral (S1) | | Redox Dark Su | urface (F | 6) | | | odic (TA6) (MLRA 14 | 4A, 145, 149B) |
| Sandy G | leyed Matrix (S4) | | Depleted Dark | Surface | e (F7) | | | nt Material (F21) | |
| | edox (S5) | | Redox Depress | - | 8) | | | llow Dark Surface (F2 | 22) |
| | Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other (Ex | plain in Remarks) | |
| Dark Sur | face (S7) | | | | | | | | |
| 3 | | | | | | | | | |
| | hydrophytic vegetat .aver (if observed): | | vetiand hydrology mu | ist be pi | resent, ur | niess dist | urbed or problematic. | | |
| | , | | | | | | | | |
| Type: | rocl | | | | | | | | |
| Depth (ir | iches): | 8 | | | | | Hydric Soil Present | t? Yes | <u>No X</u> |
| Remarks: | | | | | | | | | |
| | | | | | | | 2.0 to include the NRC | S Field Indicators of I | Hydric Soils, |
| version 7.0, | 2015 Enata. (http://w | www.nrcs | .usda.gov/Internet/FS | 3E_DO(| | S/IICS14 | 2pz_001293.00CX) | | |
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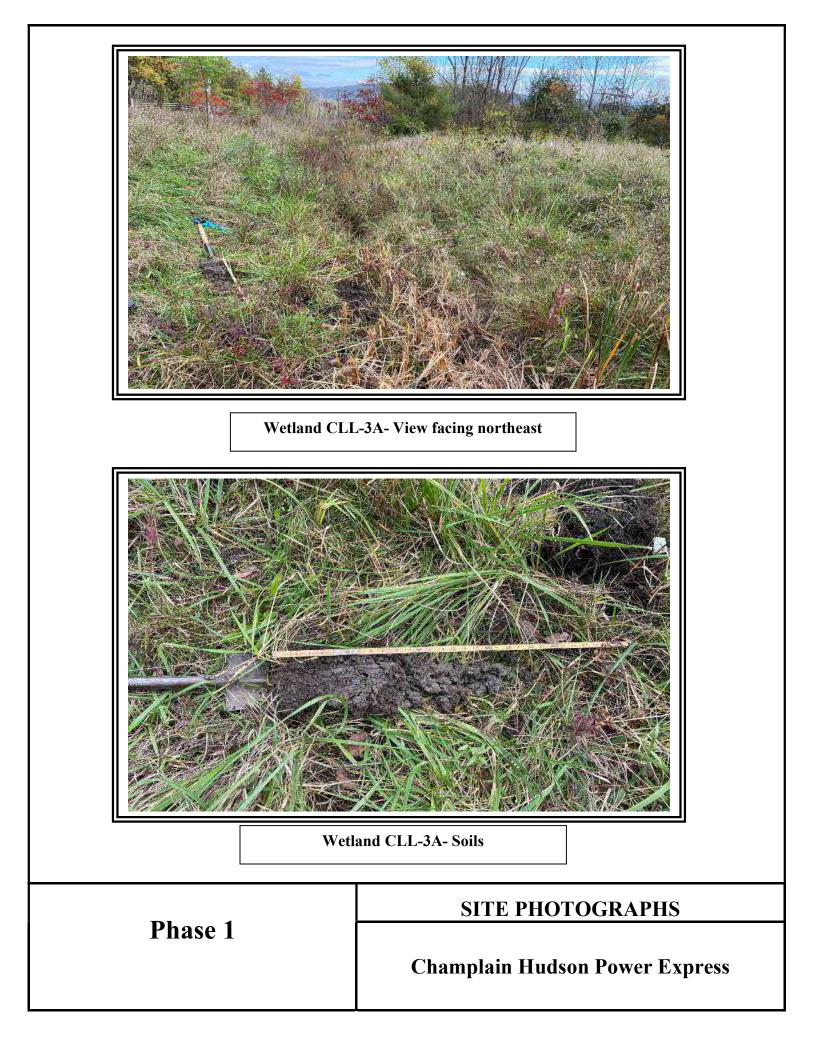
| Project/Site: CHPE | City/County: Dresden/Washington Sampling Date: 10/14/21 | | | | | | | |
|---|--|-----------------------|---------------------|-------------------|----------|----------------------------|--|--|
| Applicant/Owner: TDI | | | | State: | NY | Sampling Point: CLL-3A Wet | | |
| Investigator(s): N. Frazer, S. Berryman | | | Section, To | wnship, Range: | | | | |
| Landform (hillside, terrace, etc.): depression | Local relief (concave, convex, none): concave Slope %: 0 | | | | | | | |
| Subregion (LRR or MLRA): LRR R | _ Lat: | 43-39-40.48N | Long: | 73-25-45.04W | | Datum: | | |
| Soil Map Unit Name: Hollis-rock outcrop associa | Soil Map Unit Name: Hollis-rock outcrop association | | | | | | | |
| Are climatic / hydrologic conditions on the site typ | ical for | this time of year? | Yes x | No | (If no, | explain in Remarks.) | | |
| Are Vegetation, Soil, or Hydrology | · | significantly disturb | ed? Are "Norn | nal Circumstanc | es" pres | ent? Yes <u>x</u> No | | |
| Are Vegetation, Soil, or Hydrology | · | _naturally problemat | ic? (If needed | d, explain any ar | nswers i | n Remarks.) | | |
| SUMMARY OF FINDINGS – Attach sit | ə maj | o showing samp | oling point locat | ions, transe | cts, in | nportant features, etc. | | |
| Hydrophytic Vegetation Present? Ye | s X | No | Is the Sampled A | rea | | | | |
| Hydric Soil Present? Ye | s X | No | within a Wetland | ? Yes | <u>х</u> | No | | |
| Wetland Hydrology Present? Ye | s <u>X</u> | No | If yes, optional We | tland Site ID: | | | | |
| Remarks: (Explain alternative procedures here or in a separate report.) | | | | | | | | |
| Linear vegetated ditch. | | | | | | | | |
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| Wetland Hydrology Indicators: | | Secondary Indicators (minimum of two required) | | | |
|---|--|---|--|--|--|
| Primary Indicators (minimum of one is requir | Surface Soil Cracks (B6) | | | | |
| Surface Water (A1) | rface Water (A1) Water-Stained Leaves (B9) | | | | |
| High Water Table (A2) | Aquatic Fauna (B13) | Moss Trim Lines (B16) | | | |
| X Saturation (A3) | Marl Deposits (B15) | Dry-Season Water Table (C2) | | | |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | Crayfish Burrows (C8) | | | |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Root | ts (C3) Saturation Visible on Aerial Imagery (C9) | | | |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | Stunted or Stressed Plants (D1) | | | |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils (| C6) X Geomorphic Position (D2) | | | |
| Iron Deposits (B5) | Thin Muck Surface (C7) | Shallow Aquitard (D3) | | | |
| Inundation Visible on Aerial Imagery (B7 | Other (Explain in Remarks) | Microtopographic Relief (D4) | | | |
| Sparsely Vegetated Concave Surface (B | 8) | X FAC-Neutral Test (D5) | | | |
| Field Observations: | | | | | |
| Surface Water Present? Yes | No x Depth (inches): | | | | |
| Water Table Present? Yes x | No Depth (inches): 15 | | | | |
| | | | | | |
| Saturation Present? Yes x | No Depth (inches): 8 | Wetland Hydrology Present? Yes X No | | | |
| Saturation Present? Yes x (includes capillary fringe) | No Depth (inches): 8 | Wetland Hydrology Present? Yes X No | | | |
| | | · · · · · · · · · · · · · · · · · · · | | | |
| (includes capillary fringe) | | · · · · · · · · · · · · · · · · · · · | | | |
| (includes capillary fringe) | | · · · · · · · · · · · · · · · · · · · | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | · · · · · · · · · · · · · · · · · · · | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks: | | · · · · · · · · · · · · · · · · · · · | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks: | | · · · · · · · · · · · · · · · · · · · | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks: | | · · · · · · · · · · · · · · · · · · · | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks: | | · · · · · · · · · · · · · · · · · · · | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks: | | · · · · · · · · · · · · · · · · · · · | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks: | | · · · · · · · · · · · · · · · · · · · | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks: | | · · · · · · · · · · · · · · · · · · · | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks: | | · · · · · · · · · · · · · · · · · · · | | | |

Sampling Point: CLL-3A Wet

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|--|---------------------|----------------------|---------------------|---|
| 1. 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) |
| 3 4 | | | | Total Number of Dominant Species Across All Strata: 2 (B) |
| 5 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) |
| 7. | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 70 x 1 = 70 |
| 1. | | | | FACW species $0 	 x 2 = 0$ |
| 2. | | | | FAC species $30 \times 3 = 90$ |
| 3. | | | | FACU species 5 x 4 = 20 |
| 1 | | | | UPL species 2 x 5 = 10 |
| 4 5. | | | | Column Totals: 107 (A) 190 (B) |
| | | | | Prevalence Index = $B/A = 1.78$ |
| o | | | | Hydrophytic Vegetation Indicators: |
| ·· | | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% |
| | 20 | Yes | OBL | X 3 - Prevalence Index is $\leq 3.0^{1}$ |
| 1. Lythrum salicaria 2. Typha angustifolia | 50 | Yes | OBL | 4 - Morphological Adaptations ¹ (Provide supporting |
| | | | | data in Remarks or on a separate sheet) |
| 3. Euthamia graminifolia | 10 | No | FAC | |
| 4. Equisetum arvense | | No | FAC | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. Daucus carota | 2 | No | UPL | ¹ Indicators of hydric soil and wetland hydrology must |
| 6. <u>Plantago lanceolata</u> | 5 | No | FACU | be present, unless disturbed or problematic. |
| 7. <u>Galium boreale</u> | 10 | No | FAC | Definitions of Vegetation Strata: |
| 8 9 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 10 11 | | | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. |
| 12. | | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| Weady Vina Stratum (Plat size) 201 | 107 | | | of size, and woody plants less than 5.20 it tall. |
| Woody Vine Stratum (Plot size: 30') 1. | | | | Woody vines – All woody vines greater than 3.28 ft in height. |
| 2 | | | | Hydrophytic |
| 3 | | | | Vegetation |
| 4 | | | | Present? Yes X No |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a sepa | rate sheet.) | | | |
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| Profile Desc | ription: (Describe | to the de | pth needed to docu | ument ti | ne indica | ator or co | onfirm the absence o | f indicators.) |
|----------------------------|------------------------|-----------------|----------------------|------------|-------------------|------------------|--------------------------|---|
| Depth | Matrix | | | x Featur | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-8 | 10YR 2/2 | 85 | 7.5YR 4/4 | 15 | С | М | Loamy/Clayey | Distinct redox concentrations |
| 8-20 | 2.5Y 4/1 | 70 | 10YR 4/6 | 25 | C | | Loamy/Clayey | Prominent redox concentrations |
| | | | 10YR 3/3 | 5 | С | Μ | | Distinct redox concentrations |
| | | | | | | | | soils with gravel |
| | | | | | | | | giate. |
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| | | ation DA | | | | | ² l contion: | Deve Lining M-Matrix |
| Hydric Soil | oncentration, D=Depl | ellon, RI | | /iS=iviasi | ked Sand | i Grains. | | PL=Pore Lining, M=Matrix. |
| Histosol | | | Polyvalue Belo | w Surfa | ce (S8) (| | | uck (A10) (LRR K, L, MLRA 149B) |
| | pipedon (A2) | | MLRA 149B | | | | | rairie Redox (A16) (LRR K, L, R) |
| Black Hi | | | Thin Dark Surf | , | | MLRA 1 | | ucky Peat or Peat (S3) (LRR K, L, R) |
| | n Sulfide (A4) | | High Chroma S | • • • | • | • | · | ue Below Surface (S8) (LRR K, L) |
| | l Layers (A5) | | Loamy Mucky | | | | | rk Surface (S9) (LRR K, L) |
| | Below Dark Surface | (A11) | Loamy Gleyed | | | ιτι, Ε) | | nganese Masses (F12) (LRR K, L, R) |
| | ark Surface (A12) | , (, (, , , ,) | X Depleted Matri | | -) | | | nt Floodplain Soils (F19) (MLRA 149B) |
| | lucky Mineral (S1) | | X Redox Dark Su | • • | 6) | | | podic (TA6) (MLRA 144A, 145, 149B) |
| | leyed Matrix (S4) | | Depleted Dark | `` | , | | | rent Material (F21) |
| · · · | edox (S5) | | ? Redox Depress | | () | | allow Dark Surface (F22) | |
| | Matrix (S6) | | Marl (F10) (LR | | -) | | | Explain in Remarks) |
| | rface (S7) | | | , =/ | | | O(lior (2 | |
| | () | | | | | | | |
| ³ Indicators of | f hydrophytic vegetat | ion and v | vetland hydrology mເ | ust be pr | esent, ur | nless dist | urbed or problematic. | |
| Restrictive I | Layer (if observed): | | | | | | | |
| Type: | non | е | | | | | | |
| Depth (ir | nches): | | | | | | Hydric Soil Prese | nt? Yes <u>X</u> No |
| Remarks: | | | | | | | • | |
| | | | | | | | | CS Field Indicators of Hydric Soils, |
| Version 7.0, | 2015 Errata. (http://w | /ww.nrcs. | usda.gov/Internet/FS | SE_DOC | UMENI | S/nrcs14 | 2p2_051293.docx) | |
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| Project/Site: CHPE | City/County: Dresden/Washington Sampling Date: 10/14/21 |
|---|---|
| Applicant/Owner: TDI | State: NY Sampling Point: CLL-3A Upl |
| Investigator(s): N. Frazer, S. Berryman | Section, Township, Range: |
| Landform (hillside, terrace, etc.): flat Local | relief (concave, convex, none): none Slope %: 0 |
| Subregion (LRR or MLRA): LRR R Lat: 43-39-40.48N | Long: <u>73-25-45.04W</u> Datum: |
| Soil Map Unit Name: Hollis-rock outcrop association | NWI classification: N/A |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes x No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly distu | rbed? Are "Normal Circumstances" present? Yes x No |
| Are Vegetation, Soil, or Hydrologynaturally problem | atic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing san | npling point locations, transects, important features, etc. |

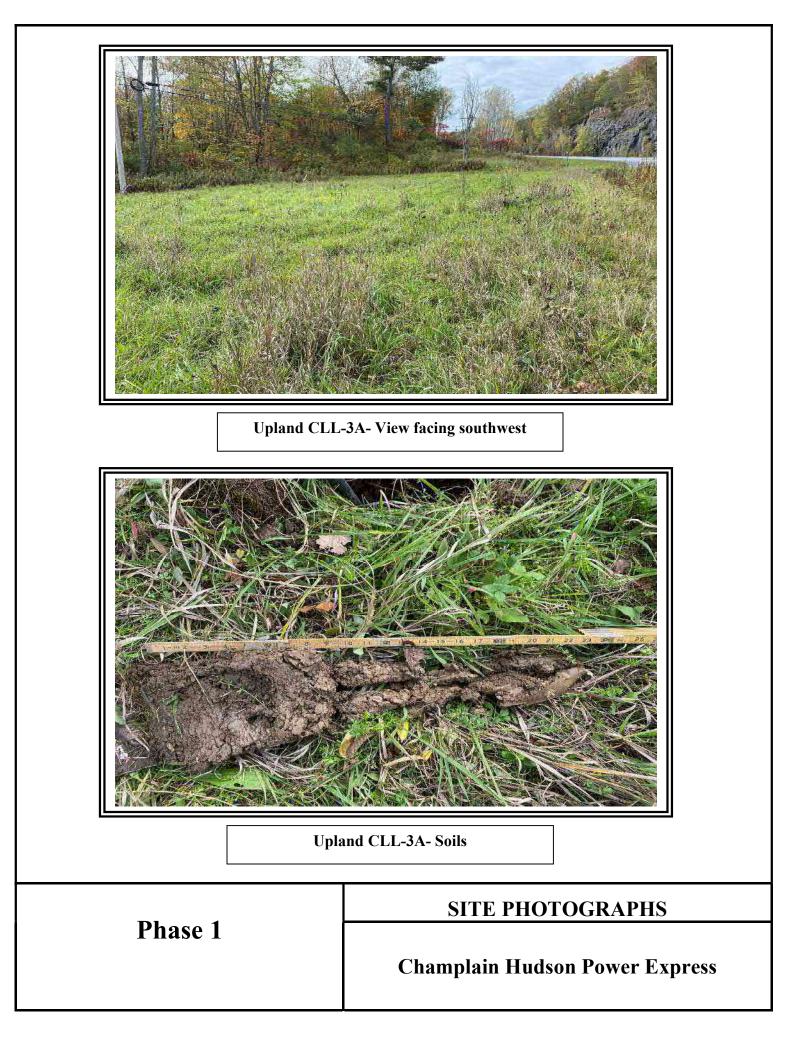
| Hydrophytic Vegetation Present? | Yes | No X | Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: |
|--|-------------------|-------------------|--|
| Hydric Soil Present? | Yes | No X | |
| Wetland Hydrology Present? | Yes | No X | |
| Remarks: (Explain alternative procedu Successional old field. | ıres here or in a | separate report.) | |

| Wetland Hydrology Indicators: | | Secondary Indicators (minimum of two required) |
|--|--|--|
| Primary Indicators (minimum of one is re | Surface Soil Cracks (B6) | |
| Surface Water (A1) | Water-Stained Leaves (B9) | Drainage Patterns (B10) |
| High Water Table (A2) | Aquatic Fauna (B13) | Moss Trim Lines (B16) |
| Saturation (A3) | Marl Deposits (B15) | Dry-Season Water Table (C2) |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | Crayfish Burrows (C8) |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Re | Roots (C3) Saturation Visible on Aerial Imagery (C9) |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | Stunted or Stressed Plants (D1) |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soil | ils (C6) Geomorphic Position (D2) |
| Iron Deposits (B5) | Thin Muck Surface (C7) | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery | / (B7) Other (Explain in Remarks) | Microtopographic Relief (D4) |
| Sparsely Vegetated Concave Surface | ce (B8) | FAC-Neutral Test (D5) |
| Field Observations: | | |
| Surface Water Present? Yes | No x Depth (inches): | |
| Water Table Present? Yes | No x Depth (inches): | |
| Saturation Present? Yes | No x Depth (inches): | Wetland Hydrology Present? Yes No X |
| (includes capillary fringe) | · | |
| Describe Recorded Data (stream gauge | , monitoring well, aerial photos, previous inspe | pections), if available: |
| | | |
| Remarks: | | |
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Sampling Point: CLL-3A Upl

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|---|---------------------|----------------------|---------------------|---|
| 1. 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) |
| 3 4 | | | | Total Number of Dominant Species Across All Strata: 4 (B) |
| 5 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC:25.0% (A/B) |
| 7 | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size:15') | | | | OBL species x 1 = |
| 1. Populus tremuloides | 5 | Yes | FACU | FACW species 0 x 2 = 0 |
| 2 | | | | FAC species 30 x 3 =90 |
| 3 | | | | FACU species 80 x 4 = 320 |
| 4 | | | | UPL species 0 x 5 = 0 |
| 5. | | | | Column Totals: 110 (A) 410 (B) |
| 6. | | | | Prevalence Index = B/A = 3.73 |
| 7. | | | | Hydrophytic Vegetation Indicators: |
| | | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% |
| 1. Schedonorus pratensis | 40 | Yes | FACU | 3 - Prevalence Index is ≤3.0 ¹ |
| 2. Galium boreale | 30 | Yes | FAC | 4 - Morphological Adaptations ¹ (Provide supporting |
| 3. Fragaria virginiana | 5 | No | FACU | data in Remarks or on a separate sheet) |
| 4. Poa pratensis | 30 | Yes | FACU | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. | | | | |
| 6. | | | | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 7. | | | | Definitions of Vegetation Strata: |
| 8. | | | | - |
| 9. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 10. 11. | | | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | 105 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | Woody vines – All woody vines greater than 3.28 ft in |
| 1 | | | | height. |
| 2 | | | | Hydrophytic |
| 3. | | | | Vegetation |
| 4 | | | | Present? Yes <u>No X</u> |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a sepa | rate sheet.) | | | |
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| Profile Desc | ription: (Describe | to the de | oth needed to docu | ument ti | ne indica | tor or co | onfirm the absence of indi | cators.) | |
|----------------------------|------------------------|------------|---------------------|-----------|-------------------|------------------|------------------------------|--------------------------|-------------------------|
| Depth | Matrix | | Redo | x Featur | es | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remar | ks |
| 0-5 | 10YR 3/3 | 100 | | | | | Loamy/Clayey | | |
| 5-21 | 10YR 4/3 | 70 | 10YR 3/6 | 30 | С | М | Loamy/Clayey | Distinct redox co | ncentrations |
| | | | | | | | | | |
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| | | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=Dep | letion, RM | Reduced Matrix, N | /IS=Masl | ked Sand | Grains. | ² Location: PL=Po | re Lining, M=Ma | trix. |
| Hydric Soil I | ndicators: | | | | | | Indicators for Pro | | |
| Histosol | (A1) | | Polyvalue Belo | w Surfa | ce (S8) (I | LRR R, | 2 cm Muck (A | 10) (LRR K, L, M | ILRA 149B) |
| Histic Ep | ipedon (A2) | | MLRA 149B |) | | | Coast Prairie | Redox (A16) (LR | R K, L, R) |
| Black His | stic (A3) | | Thin Dark Surf | ace (S9) | (LRR R | , MLRA 1 | 49B) 5 cm Mucky F | Peat or Peat (S3) | (LRR K, L, R) |
| Hydroge | n Sulfide (A4) | | High Chroma S | Sands (S | 511) (LRF | R K, L) | Polyvalue Bel | ow Surface (S8) | (LRR K, L) |
| Stratified | l Layers (A5) | | Loamy Mucky | Mineral | (F1) (LRI | R K, L) | Thin Dark Sur | face (S9) (LRR I | K, L) |
| Depleted | Below Dark Surface | e (A11) | Loamy Gleyed | Matrix (| F2) | | Iron-Mangane | se Masses (F12) |) (LRR K, L, R) |
| Thick Da | rk Surface (A12) | | Depleted Matri | x (F3) | | | Piedmont Floo | odplain Soils (F1 | 9) (MLRA 149B) |
| Sandy M | lucky Mineral (S1) | | Redox Dark Su | urface (F | 6) | | Mesic Spodic | (TA6) (MLRA 14 | 4A, 145, 149B) |
| Sandy G | leyed Matrix (S4) | | Depleted Dark | Surface | (F7) | | Red Parent M | aterial (F21) | |
| Sandy R | edox (S5) | | Redox Depres | sions (F8 | 3) | | Very Shallow | Dark Surface (F2 | 22) |
| Stripped | Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other (Explain | n in Remarks) | |
| Dark Sur | face (S7) | | | | | | | | |
| | | | | | | | | | |
| ³ Indicators of | hydrophytic vegetat | tion and w | etland hydrology mu | ust be pr | esent, ur | nless dist | urbed or problematic. | | |
| | _ayer (if observed): | | | | | | | | |
| Type: | non | ie | | | | | | | |
| Depth (ir | nches): | | | | | | Hydric Soil Present? | Yes | <u>No X</u> |
| Remarks: | | | | | | | - | | |
| | | | | | | | 2.0 to include the NRCS Fi | eld Indicators of | Hydric Soils, |
| Version 7.0, | 2015 Errata. (http://v | ww.nrcs.u | usda.gov/Internet/F | SE_DOC | UMENT | S/nrcs14 | 2p2_051293.docx) | | |
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| Project/Site: CHPE | | City/Co | unty: Dresder | n/Washington | | Sampling Date: 1 | 0/14/21 |
|---|-------------------------|--------------------------|---------------|-----------------------|-----------|----------------------|-------------|
| Applicant/Owner: TDI | | | | State: | NY | Sampling Point: | CMM-2 Wet |
| Investigator(s): N. Frazer, S. Berry | man | | Section, Tov | vnship, Range: | | | |
| Landform (hillside, terrace, etc.): | hillslope | Local relief (co | ncave, conve | x, none): <u>none</u> | | Slope 9 | %: <u>2</u> |
| Subregion (LRR or MLRA): LRR F | R Lat: | 43-39-34.47N | Long: | 73-25-52.71W | | Datum: | |
| Soil Map Unit Name: Charlton fine | sandy loam | | | NWI classifi | cation: | PEM | |
| Are climatic / hydrologic conditions | on the site typical for | this time of year? | Yes x | No | (lf no, e | explain in Remarks.) |) |
| Are Vegetation, Soil | , or Hydrology | significantly disturbed? | Are "Norm | al Circumstance | s" prese | ent? Yes <u>x</u> N | No |
| Are Vegetation, Soil | , or Hydrology | naturally problematic? | (If needed | , explain any ans | wers in | Remarks.) | |
| SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. | | | | | | | |
| Hydrophytic Vegetation Present? | Yes X | No Is the | e Sampled Ar | ea | | | |
| Hydric Soil Present? | Yes X | No with | n a Wetland? | Yes | Х | No | |
| Wetland Hydrology Present? | Yes X | No If yes | , optional We | tland Site ID: | | | |

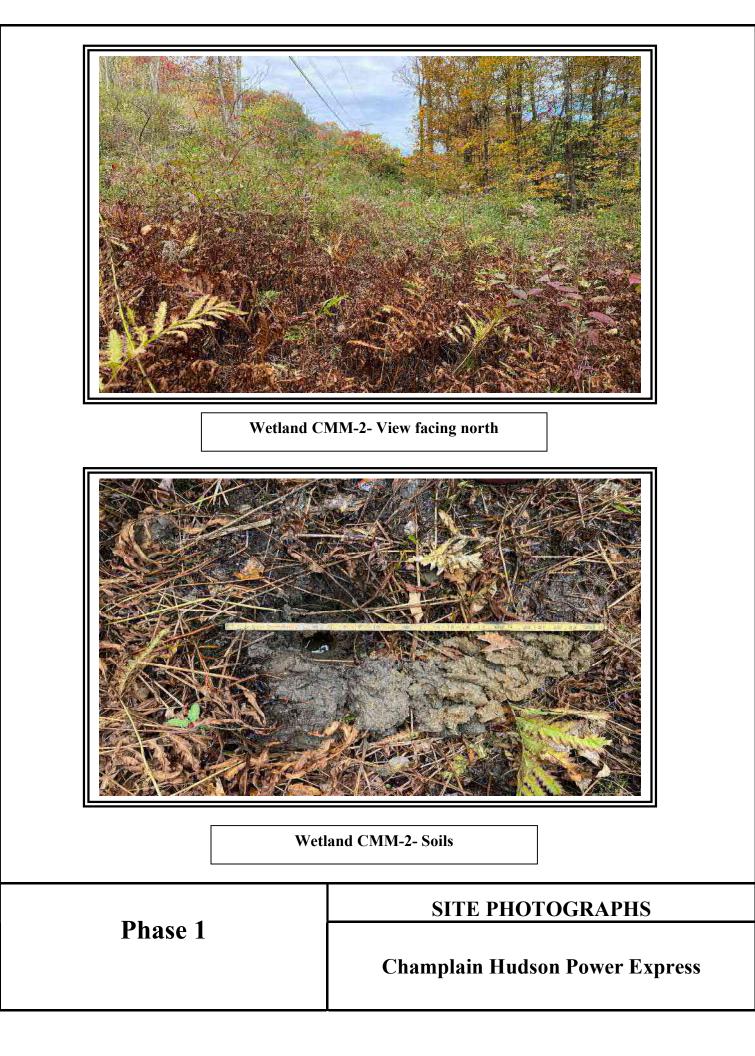
Remarks: (Explain alternative procedures here or in a separate report.)

| Deleter and the distance of the second secon | | | Secondary Indicators (minimum of two required) | |
|--|--|-------------|--|--|
| Primary Indicators (minimum of one is require | Surface Soil Cracks (B6) | | | |
| X Surface Water (A1) | Water-Stained Leaves (B9) | | Drainage Patterns (B10) | |
| X High Water Table (A2) | Aquatic Fauna (B13) | | Moss Trim Lines (B16) | |
| X Saturation (A3) | Marl Deposits (B15) | | Dry-Season Water Table (C2) | |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | | Crayfish Burrows (C8) | |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Ro | oots (C3) | Saturation Visible on Aerial Imagery (C9) | |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | | Stunted or Stressed Plants (D1) | |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils | s (C6) | Geomorphic Position (D2) | |
| Iron Deposits (B5) | Thin Muck Surface (C7) | | Shallow Aquitard (D3) | |
| Inundation Visible on Aerial Imagery (B7) | Other (Explain in Remarks) | | Microtopographic Relief (D4) | |
| Sparsely Vegetated Concave Surface (Ba | 8) | | X FAC-Neutral Test (D5) | |
| Field Observations: | | | | |
| Surface Water Present? Yes x | No Depth (inches): 0.25 | | | |
| Water Table Present? Yes x | No Depth (inches): 5 | | | |
| Saturation Present? Yes x | No Depth (inches): 0 | Wetlan | ld Hydrology Present? Yes X No | |
| (includes capillary fringe) | | | | |
| Describe Recorded Data (stream gauge, mor | nitoring well, aerial photos, previous inspe | ctions), if | available: | |
| | | , | | |
| | | | | |
| Remarks: | | | | |
| Seep present and adjacent to stream CS22. | | | | |
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Sampling Point: CMM-2 Wet

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|--|---------------------|----------------------|---------------------|---|
| 1. | | | | |
| 2 | | | | Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) |
| 3. | | | | |
| 4. | | | | Total Number of DominantSpecies Across All Strata:22(B) |
| 5. | | | | |
| 6. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) |
| 7. | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of:Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species x 1 = |
| 1. Cornus amomum | 10 | Yes | FACW | FACW species 95 x 2 = 190 |
| 2 | | | | FAC species x 3 = |
| 3 | | | | FACU species5 x 4 =20 |
| 4 | | | | UPL species 0 x 5 = 0 |
| 5 | | | | Column Totals: 100 (A) 210 (B) |
| 6 | | | | Prevalence Index = B/A = 2.10 |
| 7 | | | | Hydrophytic Vegetation Indicators: |
| | 10 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% |
| 1. Onoclea sensibilis | 85 | Yes | FACW | <u>X</u> 3 - Prevalence Index is $\leq 3.0^{1}$ |
| 2. Solidago canadensis | 5 | No | FACU | 4 - Morphological Adaptations ¹ (Provide supporting |
| 3. Sphagnum moss sp. | 5 | No | | data in Remarks or on a separate sheet) |
| 4 | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5 | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 6 | | | | be present, unless disturbed or problematic. |
| 7 | | | | Definitions of Vegetation Strata: |
| 8 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in |
| 9 | | | | diameter at breast height (DBH), regardless of height. |
| 10 | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | | | | Herb – All herbaceous (non-woody) plants, regardless |
| | 95 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | Woody vines – All woody vines greater than 3.28 ft in |
| 1 | | | | height. |
| 2 | | | | Hydrophytic |
| 3 | | | | Vegetation |
| 4 | | | | Present? Yes <u>X</u> No |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a separation of the sep | rate sheet.) | | | |
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| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) | | | | | | | | |
|---|--|-----|---------------|----------|-------------------|------------------|-------------------|---|
| Depth | Matrix | | Redo | x Featur | es | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-5 | 10YR 3/1 | 100 | | | | | Muck | |
| 5-13 | 10YR 5/2 | 93 | 10YR 6/4 | 5 | C | M | Loamy/Clayey | Distinct redox concentrations |
| | | | 7.5YR 4/4 | 2 | C | M | | Distinct redox concentrations |
| 13-20 | 10YR 5/1 | 50 | 10YR 5/6 | 30 | C | M | Loamy/Clayey | Prominent redox concentrations |
| | | | 7.5YR 5/6 | 20 | C | M | | Prominent redox concentrations |
| 20-24 | 10YR 5/3 | 70 | 7.5YR 5/6 | 15 | C | M | Sandy | Prominent redox concentrations |
| | | | 10YR 4/1 | 10 | D | M | | |
| | | | N 2.5/ | 5 | | M | | |
| | | | | | | | | or Problematic Hydric Soils ³ : uck (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R) ue Below Surface (S8) (LRR K, L) rk Surface (S9) (LRR K, L) nganese Masses (F12) (LRR K, L, R) nt Floodplain Soils (F19) (MLRA 149B) podic (TA6) (MLRA 144A, 145, 149B) rent Material (F21) allow Dark Surface (F22) |
| Type: | _ayer (if observed): non | е | | | | | | |
| Depth (ir | nches): | | | | | | Hydric Soil Prese | nt? Yes_X_No |
| | m is revised from No 2015 Errata. (http://w | | - | | | | | CS Field Indicators of Hydric Soils, |



| Project/Site: CHPE | City/County: Dresden/Washington Sampling Date: 10/14/21 |
|---|---|
| Applicant/Owner: TDI | State: NY Sampling Point: CMM-2 Upl |
| Investigator(s): N. Frazer, S. Berryman | Section, Township, Range: |
| Landform (hillside, terrace, etc.): flat Loca | l relief (concave, convex, none): none Slope %: 0 |
| Subregion (LRR or MLRA): LRR R Lat: 43-39-34.47N | Long: <u>73-25-52.71W</u> Datum: |
| Soil Map Unit Name: Charlton fine sandy loam | NWI classification: N/A |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes x No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly distu | rbed? Are "Normal Circumstances" present? Yes x No |
| Are Vegetation, Soil, or Hydrologynaturally problem | atic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sam | npling point locations, transects, important features, etc. |

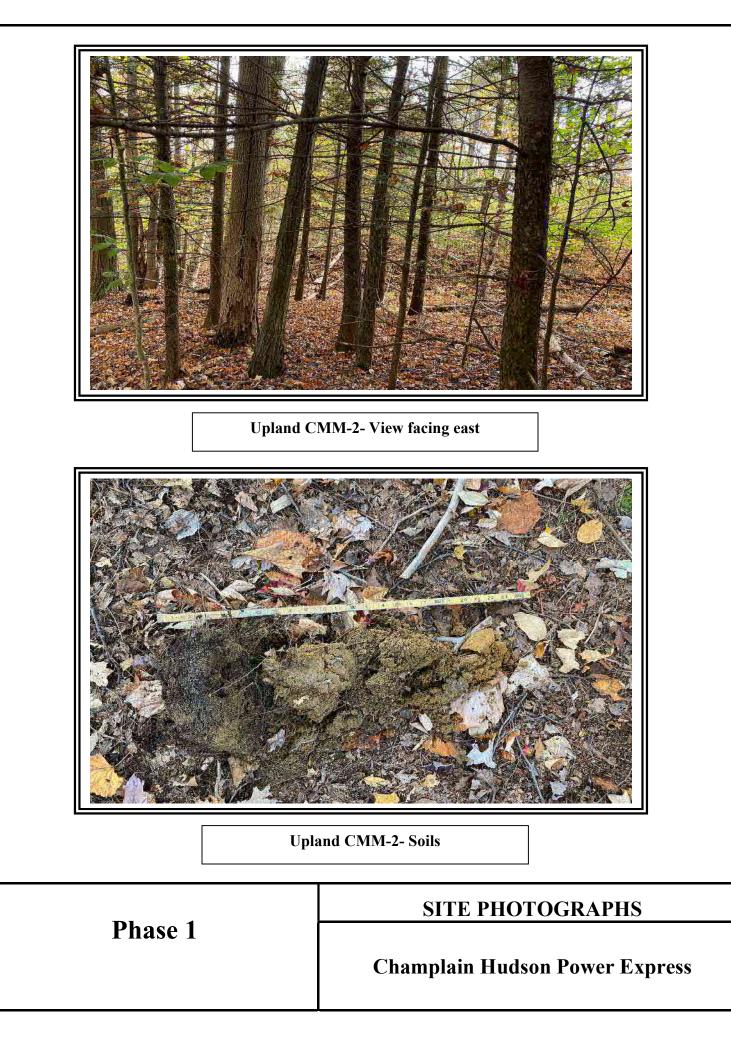
| Hydrophytic Vegetation Present? | Yes | No X | Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: |
|--|-------------------|-------------------|--|
| Hydric Soil Present? | Yes | No X | |
| Wetland Hydrology Present? | Yes | No X | |
| Remarks: (Explain alternative procedu Coniferous forested upland. | ires here or in a | separate report.) | |

| Wetland Hydrology Indica | tors: | | | | Secondary Indicators (min | nimum of two required) |
|-----------------------------|-------------------|--------------------------|-------------------------------|---------------|---------------------------|------------------------|
| Primary Indicators (minimur | n of one is requi | Surface Soil Cracks (B6) | | | | |
| Surface Water (A1) | | Water- | Stained Leaves (B9) | | Drainage Patterns (B | 10) |
| High Water Table (A2) | | Aquatio | c Fauna (B13) | | Moss Trim Lines (B16 | 5) |
| Saturation (A3) | | Marl D | eposits (B15) | | Dry-Season Water Ta | ıble (C2) |
| Water Marks (B1) | | Hydrog | gen Sulfide Odor (C1) | | Crayfish Burrows (C8) |) |
| Sediment Deposits (B2) |) | Oxidize | ed Rhizospheres on Living | Roots (C3) | Saturation Visible on A | Aerial Imagery (C9) |
| Drift Deposits (B3) | | Presen | nce of Reduced Iron (C4) | | Stunted or Stressed F | Plants (D1) |
| Algal Mat or Crust (B4) | | Recent | t Iron Reduction in Tilled So | oils (C6) | Geomorphic Position | (D2) |
| Iron Deposits (B5) | | Thin M | uck Surface (C7) | | Shallow Aquitard (D3) |) |
| Inundation Visible on A | erial Imagery (B | 7) Other (| (Explain in Remarks) | | Microtopographic Reli | ief (D4) |
| Sparsely Vegetated Co | ncave Surface (| B8) | | | FAC-Neutral Test (D5 | i) |
| Field Observations: | | | | | | |
| Surface Water Present? | Yes | No x | Depth (inches): | | | |
| Water Table Present? | Yes | No x | Depth (inches): | - | | |
| Saturation Present? | Yes | No x | Depth (inches): | - Wetlar | nd Hydrology Present? | Yes No X |
| (includes capillary fringe) | | | | - | | |
| Describe Recorded Data (st | tream gauge, m | onitoring well, | aerial photos, previous ins | pections), if | available: | |
| Remarks: | | | | | | |
| Remarks. | | | | | | |
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Sampling Point: CMM-2 Upl

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|--|---------------------|----------------------|---------------------|--|
| 1. Tsuga canadensis | <u>60</u> | Yes | FACU | |
| | 25 | | | Number of Dominant Species |
| 2. Fagus grandifolia | | Yes | FACU | That Are OBL, FACW, or FAC:(A) |
| 3. Quercus rubra 4. | 10 | No | FACU | Total Number of Dominant Species Across All Strata: 3 (B) |
| 5 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) |
| 7. | | | | Prevalence Index worksheet: |
| | 95 | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | $\begin{array}{c c} \hline \\ \hline $ |
| 1. Tsuga canadensis | 10 | Yes | FACU | FACW species $0 	 x^2 = 0$ |
| 2. Fagus grandifolia | 2 | No | FACU | FAC species $0 \times 3 = 0$ |
| 3. | | | | FACU species $109 \times 4 = 436$ |
| 4. | | | | $\frac{1}{100} \frac{1}{100} \frac{1}$ |
| | | | | |
| 5. | | | | Column Totals: 109 (A) 436 (B) |
| 6 | | | | Prevalence Index = B/A = 4.00 |
| 7 | | | | Hydrophytic Vegetation Indicators: |
| | 12 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% |
| 1. Hamamelis virginiana | 2 | No | FACU | 3 - Prevalence Index is ≤3.0 ¹ |
| 2 | | | | 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) |
| 3 | | | | |
| 4 | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5 6. | | | | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| o | | | | Definitions of Vegetation Strata: |
| | | | | Deminitions of Vegetation Strata. |
| 8 9. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 10. | | | | |
| 11 | | | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. |
| 12. | | | | Herb – All herbaceous (non-woody) plants, regardless |
| | 2 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| <u>Woody Vine Stratum</u> (Plot size: <u>30'</u>) | | | | Woody vines – All woody vines greater than 3.28 ft in |
| 1 | | | | height. |
| 2 | | | | |
| 3 | | | | Hydrophytic Vegetation |
| 4. | | | | Present? Yes No X |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a sepa | rate sheet.) | | | 1 |
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| Profile Desc | cription: (Describe | to the de | pth needed to docu | ument t | he indica | tor or co | onfirm the absence of | findicators.) |
|---------------------------|------------------------|-------------|---------------------|-----------|--------------------|------------------|---------------------------|---|
| Depth | Matrix | | Redo | x Featu | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-5 | 10YR 4/3 | 100 | | | | | Loamy/Clayey | |
| 5-19 | 10YR 5/6 | 100 | | | | | Sandy | |
| 19-22 | 10YR 5/8 | 100 | | | | | Loamy/Clayey | |
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| | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=Dep | letion, RM | I=Reduced Matrix, N | /IS=Mas | ked Sand | Grains. | ² Location: PI | L=Pore Lining, M=Matrix. |
| Hydric Soil | Indicators: | | | | | | | or Problematic Hydric Soils ³ : |
| Histosol | | | Polyvalue Belo | w Surfa | ce (S8) (I | _RR R, | | ck (A10) (LRR K, L, MLRA 149B) |
| Histic Ep | pipedon (A2) | | MLRA 149B |) | | | Coast Pr | airie Redox (A16) (LRR K, L, R) |
| Black Hi | stic (A3) | | Thin Dark Surf | ace (S9 |) (LRR R | MLRA 1 | 149B) 5 cm Mu | cky Peat or Peat (S3) (LRR K, L, R) |
| Hydroge | n Sulfide (A4) | | High Chroma S | Sands (S | 511) (LRF | R K, L) | Polyvalue | e Below Surface (S8) (LRR K, L) |
| Stratified | d Layers (A5) | | Loamy Mucky | Mineral | (F1) (LRI | R K, L) | Thin Darl | k Surface (S9) (LRR K, L) |
| Depleted | d Below Dark Surface | e (A11) | Loamy Gleyed | Matrix (| (F2) | | Iron-Man | ganese Masses (F12) (LRR K, L, R) |
| Thick Da | ark Surface (A12) | | Depleted Matri | x (F3) | | | Piedmon | t Floodplain Soils (F19) (MLRA 149B) |
| Sandy M | lucky Mineral (S1) | | Redox Dark Su | urface (F | -6) | | Mesic Sp | oodic (TA6) (MLRA 144A, 145, 149B) |
| Sandy G | leyed Matrix (S4) | | Depleted Dark | Surface | e (F7) | | Red Pare | ent Material (F21) |
| Sandy R | ledox (S5) | | Redox Depres | sions (F | 8) | | Very Sha | allow Dark Surface (F22) |
| Stripped | Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other (Ex | xplain in Remarks) |
| Dark Su | rface (S7) | | | | | | | |
| | | | | | | | | |
| ³ Indicators o | f hydrophytic vegetat | tion and w | etland hydrology mu | ust be p | resent, ur | iless dist | urbed or problematic. | |
| Restrictive I | Layer (if observed): | | | | | | | |
| Туре: | nor | ne | | | | | | |
| Depth (ir | nches): | | | | | | Hydric Soil Presen | nt? Yes No_X |
| Remarks: | | | | | | | | |
| | m is revised from No | orthcentral | and Northeast Reg | ional Su | pplement | Version | 2.0 to include the NRC | S Field Indicators of Hydric Soils, |
| Version 7.0, | 2015 Errata. (http://v | www.nrcs. | usda.gov/Internet/F | SE_DO | CUMENT | S/nrcs14 | 2p2_051293.docx) | |
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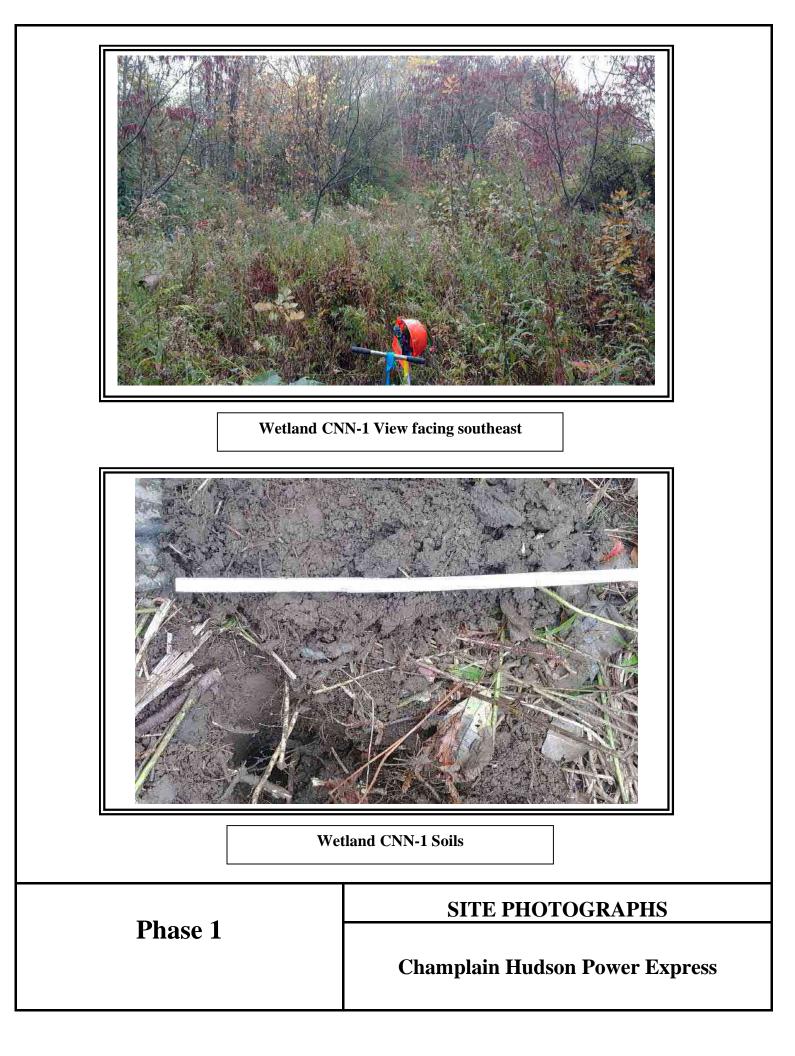


| Project/Site: CHPE | City/County: Dresden / Washington Sampling Date: 10/15/21 |
|---|---|
| Applicant/Owner: TDI | State: NY Sampling Point: WET CNN-1 |
| Investigator(s): C. Scrivner | Section, Township, Range: |
| | relief (concave, convex, none): Concave Slope %: 2 |
| Subregion (LRR or MLRA): LRR R Lat: 43-39-32.18N | Long: 73-25-53.62W Datum: WGS 84 |
| · · · · · <u> </u> | |
| Soil Map Unit Name: CHC - Charlton fine sandy loam, 3 to 8 percent slopes | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes X No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly disturb | bed? Are "Normal Circumstances" present? Yes X No |
| Are Vegetation, Soil, or Hydrologynaturally problema | atic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sam | npling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No |
| Wetland Hydrology Present? Yes X No | If yes, optional Wetland Site ID: Near Flag CNN-1 |
| Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh. Edinger classification: Shallow Emergent Mars | h with scattered shrubs. |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1)X Water-Stained Leaves (E | B9) X Drainage Patterns (B10) |
| High Water Table (A2) Aquatic Fauna (B13) | Moss Trim Lines (B16) |
| X Saturation (A3) Marl Deposits (B15) | Dry-Season Water Table (C2) |
| Water Marks (B1) Hydrogen Sulfide Odor (| |
| X Sediment Deposits (B2) Oxidized Rhizospheres c | |
| Drift Deposits (B3) Presence of Reduced Irc | |
| Algal Mat or Crust (B4) Recent Iron Reduction in Iron Deposits (B5) Thin Muck Surface (C7) | n Tilled Soils (C6) X Geomorphic Position (D2) Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark | |
| Sparsely Vegetated Concave Surface (B8) | FAC-Neutral Test (D5) |
| Field Observations: | |
| Surface Water Present? Yes No X Depth (inches): | |
| Water Table Present? Yes No X Depth (inches): | |
| Saturation Present? Yes X No Depth (inches): | |
| (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre | vious inspections), if available: |
| | |
| Remarks: | |
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Sampling Point: WET CNN-1

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | | | |
|---------------------------------------|---------------------|----------------------|---------------------|--|--|--|--|
| 1. Populus deltoides | 10 | Yes | FAC | Number of Dominant Species | | | |
| 2. Rhus typhina | 3 | Yes | UPL | That Are OBL, FACW, or FAC: <u>6</u> (A) | | | |
| 3. | | | | Total Number of Dominant | | | |
| 4. | | | | Species Across All Strata: 9 (B) | | | |
| 5. | | | | Percent of Dominant Species | | | |
| 6. | | | | That Are OBL, FACW, or FAC: <u>66.7%</u> (A/E | | | |
| 7. | | | | Prevalence Index worksheet: | | | |
| | 13 | =Total Cover | | Total % Cover of: Multiply by: | | | |
| Sapling/Shrub Stratum (Plot size:15') | | | | OBL species x 1 = | | | |
| 1. Populus deltoides | 10 | Yes | FAC | FACW species 65 x 2 = 130 | | | |
| 2. Lonicera morrowii | 5 | Yes | FACU | FAC species 33 x 3 = 99 | | | |
| 3. Alnus incana | 5 | Yes | FACW | FACU species x 4 =112 | | | |
| 4. Viburnum dentatum | 5 | Yes | FAC | UPL species <u>16</u> x 5 = <u>80</u> | | | |
| 5. Fraxinus americana | 3 | No | FACU | Column Totals: 144 (A) 423 (H | | | |
| 6. Rhus typhina | 3 | No | UPL | Prevalence Index = B/A = 2.94 | | | |
| 7 | | | | Hydrophytic Vegetation Indicators: | | | |
| | 31 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation | | | |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% | | | |
| 1. Solidago gigantea | 25 | Yes | FACW | X 3 - Prevalence Index is $\leq 3.0^1$ | | | |
| 2. Onoclea sensibilis | 20 | Yes | FACW | 4 - Morphological Adaptations ¹ (Provide supportin | | | |
| 3. Solidago canadensis | 15 | Yes | FACU | data in Remarks or on a separate sheet) | | | |
| 4. Equisetum arvense | 8 | No | FAC | Problematic Hydrophytic Vegetation ¹ (Explain) | | | |
| 5. Impatiens capensis | 8 | No | FACW | ¹Indicators of hydric soil and wetland hydrology must | | | |
| 6. Athyrium filix-femina | 8 | No | UPL | present, unless disturbed or problematic. | | | |
| 7. Fraxinus americana | 5 | No | FACU | Definitions of Vegetation Strata: | | | |
| 8. Bidens frondosa | 5 | No | FACW | Tree – Woody plants 3 in. (7.6 cm) or more in diame | | | |
| 9. Lythrum salicaria | 2 | No | OBL | at breast height (DBH), regardless of height. | | | |
| 10. Anemone cylindrica | 2 | No | UPL | Sapling/shrub – Woody plants less than 3 in. DBH | | | |
| 11. Phalaris arundinacea | 2 | No | FACW | and greater than or equal to 3.28 ft (1 m) tall. | | | |
| 12. | | | | Herb – All herbaceous (non-woody) plants, regardles | | | |
| | 100 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. | | | |
| Woody Vine Stratum (Plot size: 30') | | | | Woody vines – All woody vines greater than 3.28 ft i | | | |
| 1 | | | | height. | | | |
| 2. | | | | | | | |
| 3. | | | | Hydrophytic Vegetation | | | |
| | | | | Present? Yes X No | | | |
| 4. | | | | | | | |

| Profile Desc | ription: (Describe t | to the dep | oth needed to docu | ment th | e indica | tor or co | onfirm the absence of i | indicators.) | | |
|----------------------------|------------------------|------------|---------------------|-----------|--------------------|------------------|---|--|--|--|
| Depth | Matrix | | Redo | x Featur | es | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | | |
| 0-8 | 10YR 2/2 | 98 | 10YR 3/4 | 2 | С | M | Sandy | Distinct redox concentrations | | |
| 8-13 | 10YR 3/1 | 98 | 10YR 4/6 | 2 | С | PL | Sandy | Prominent redox concentrations | | |
| 13-16 | 5Y 2.5/1 | 65 | 10YR 5/4 | 20 | С | М | Mucky Loam/Clay | Prominent redox concentrations | | |
| | | · | 10YR 2/1 | 5 | С | М | | Faint redox concentrations | | |
| | | | 10YR 4/6 | 10 | С | M | | Prominent redox concentrations | | |
| | | | | _ | | _ | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=Depl | etion, RM | Reduced Matrix, M | S=Mask | ed Sand | Grains. | ² Location: PL | L=Pore Lining, M=Matrix. | | |
| Hydric Soil I | Indicators: | | | | | | Indicators fo | or Problematic Hydric Soils ³ : | | |
| Histosol | (A1) | | Polyvalue Belo | w Surfac | ce (S8) (I | _RR R, | 2 cm Mu | ck (A10) (LRR K, L, MLRA 149B) | | |
| Histic Ep | pipedon (A2) | | MLRA 149B | 5) | | | ? Coast Pr | airie Redox (A16) (LRR K, L, R) | | |
| Black His | stic (A3) | | Thin Dark Surf | ace (S9) | (LRR R | , MLRA 1 | 149B) 5 cm Mu | cky Peat or Peat (S3) (LRR K, L, R) | | |
| Hydroge | n Sulfide (A4) | | High Chroma S | Sands (S | 511) (LRF | R K, L) | Polyvalue | e Below Surface (S8) (LRR K, L) | | |
| | Layers (A5) | | Loamy Mucky | | | | Thin Dark Surface (S9) (LRR K, L) | | | |
| | d Below Dark Surface | (11) | Loamy Gleyed | | | , _/ | Iron-Manganese Masses (F12) (LRR K, L, R) | | | |
| | | ; (ATT) | | | 2) | | | | | |
| | ark Surface (A12) | | Depleted Matri | | | | Piedmont Floodplain Soils (F19) (MLRA 149B) | | | |
| Sandy M | lucky Mineral (S1) | | Redox Dark Su | urface (F | 6) | | | Mesic Spodic (TA6) (MLRA 144A, 145, 149B) | | |
| Sandy G | ileyed Matrix (S4) | | Depleted Dark | Surface | (F7) | | Red Pare | ent Material (F21) | | |
| X Sandy R | edox (S5) | | Redox Depres | sions (F8 | 3) | | Very Shallow Dark Surface (F22) | | | |
| Stripped | Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other (Ex | xplain in Remarks) | | |
| Dark Su | rface (S7) | | | | | | | | | |
| ³ Indicators of | f hydrophytic vegetati | ion and we | etland hydrology mu | st be pre | esent, unl | ess distu | urbed or problematic. | | | |
| Restrictive L Type: | Layer (if observed): | | | | | | | | | |
| Depth (ir | nches): | | | | | | Hydric Soil Presen | nt? Yes <u>X</u> No | | |
| Remarks: | | | | | | | | | | |
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| Project/Site: CHPE | City/County: Dresden / Washington Sampling Date: 10/15/21 | | | | | |
|---|--|--|--|--|--|--|
| Applicant/Owner: TDI | State: NY Sampling Point: WET COO-1 | | | | | |
| Investigator(s): C. Scrivner | Section, Township, Range: | | | | | |
| | relief (concave, convex, none): Concave Slope %: 2 | | | | | |
| Subregion (LRR or MLRA): LRR R Lat: 43-39-30.84N | Long: 73-25-54.70W Datum: WGS 84 | | | | | |
| | | | | | | |
| Soil Map Unit Name: CHC - Charlton fine sandy loam, 3 to 8 percent slopes | | | | | | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes X No (If no, explain in Remarks.) | | | | | |
| Are Vegetation, Soil, or Hydrologysignificantly disturb | bed? Are "Normal Circumstances" present? Yes X No | | | | | |
| Are Vegetation, Soil, or Hydrologynaturally problema | atic? (If needed, explain any answers in Remarks.) | | | | | |
| SUMMARY OF FINDINGS – Attach site map showing sam | pling point locations, transects, important features, etc. | | | | | |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area | | | | | |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No | | | | | |
| Wetland Hydrology Present? Yes X No | If yes, optional Wetland Site ID: Near Flag COO-1 | | | | | |
| Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh-Cattail Marsh. Edinger classification: Shallow Emergent Marsh. | | | | | | |
| HYDROLOGY | | | | | | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) | | | | | |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) | | | | | |
| X Surface Water (A1) Water-Stained Leaves (E | B9) Drainage Patterns (B10) | | | | | |
| X High Water Table (A2) Aquatic Fauna (B13) | Moss Trim Lines (B16) | | | | | |
| X Saturation (A3) Marl Deposits (B15) | Dry-Season Water Table (C2) | | | | | |
| Water Marks (B1) Hydrogen Sulfide Odor (| | | | | | |
| Sediment Deposits (B2) X Oxidized Rhizospheres c | | | | | | |
| Drift Deposits (B3) Presence of Reduced Irc | | | | | | |
| Algal Mat or Crust (B4) Recent Iron Reduction in Iron Deposits (B5) Thin Muck Surface (C7) | | | | | | |
| | Shallow Aquitard (D3) | | | | | |
| X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark Sparsely Vegetated Concave Surface (B8) | ks)Microtopographic Relief (D4) FAC-Neutral Test (D5) | | | | | |
| Field Observations: | | | | | | |
| Surface Water Present? Yes X No Depth (inches): | 0.5 | | | | | |
| Water Table Present? Yes X No Depth (inches): | | | | | | |
| Saturation Present? Yes X No Depth (inches): | | | | | | |
| (includes capillary fringe) | | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre | vious inspections), if available: | | | | | |
| | | | | | | |
| Remarks: | | | | | | |
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Sampling Point: WET COO-1

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | | |
|--|---------------------|----------------------|---------------------|---|--|--|
| 1. Tsuga canadensis | 2 | No | FACU | Number of Dominant Species | | |
| 2. | | | | That Are OBL, FACW, or FAC: 1 (A) | | |
| 3 | | | | Total Number of Dominant | | |
| 4 | | | | Species Across All Strata: 4 (B) | | |
| 5 | | | | Percent of Dominant Species | | |
| 6 | | | | That Are OBL, FACW, or FAC: 25.0% (A/B) | | |
| 7 | | | | Prevalence Index worksheet: | | |
| | 2 | =Total Cover | | Total % Cover of: Multiply by: | | |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 85 x 1 = 85 | | |
| 1. Lonicera morrowii | 3 | Yes | FACU | FACW species 16 x 2 = 32 | | |
| 2. Fraxinus americana | 3 | Yes | FACU | FAC species 2 x 3 = 6 | | |
| 3 | | | | FACU species 13 x 4 = 52 | | |
| 4 | | | | UPL species 0 x 5 = 0 | | |
| 5 | | | | Column Totals: 116 (A) 175 (B) | | |
| 6 | | | | Prevalence Index = B/A = 1.51 | | |
| 7. | | | | Hydrophytic Vegetation Indicators: | | |
| | 6 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation | | |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% | | |
| 1. <u>Typha latifolia</u> | 75 | Yes | OBL | X_3 - Prevalence Index is ≤3.0 ¹ | | |
| 2. Lythrum salicaria | 10 | No | OBL | 4 - Morphological Adaptations ¹ (Provide supporti | | |
| 3. <u>Onoclea sensibilis</u> | 8 | No | FACW | data in Remarks or on a separate sheet) | | |
| 4. Phalaris arundinacea | 5 | No | FACW | Problematic Hydrophytic Vegetation ¹ (Explain) | | |
| 5. Eupatorium perfoliatum | 3 | No | FACW | ¹ Indicators of hydric soil and wetland hydrology must b | | |
| 6. Equisetum arvense | 2 | No | FAC | present, unless disturbed or problematic. | | |
| 7 | | | | Definitions of Vegetation Strata: | | |
| 8 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diamete | | |
| 9 | | | | at breast height (DBH), regardless of height. | | |
| 10 | | . <u> </u> | | Sapling/shrub – Woody plants less than 3 in. DBH | | |
| 11 | | . <u> </u> | | and greater than or equal to 3.28 ft (1 m) tall. | | |
| 12 | | . <u> </u> | | Herb – All herbaceous (non-woody) plants, regardless | | |
| | 103 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. | | |
| Woody Vine Stratum (Plot size: 30') | | | | Woody vines – All woody vines greater than 3.28 ft in | | |
| 1. Parthenocissus quinquefolia | 5 | Yes | FACU | height. | | |
| 2 | | . <u> </u> | | | | |
| 3 | | . <u> </u> | | Hydrophytic Vegetation | | |
| | | | | Present? Yes X No | | |
| 4 | | =Total Cover | | | | |

SOIL

| Profile Desc | ription: (Describe | to the dep | oth needed to docu | ument th | e indica | tor or co | onfirm the absence of ind | icators.) | |
|----------------------------|--------------------------|------------|---|-----------|--------------------|------------------|---|--|--|
| Depth | Matrix | | Redo | x Featur | es | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-2 | 10YR 2/1 | 100 | | | | | Mucky Loam/Clay | | |
| 2-16 | 10YR 2/1 | 80 | 5YR 3/4 | 5 | С | М | Sandy | Prominent redox concentrations | |
| | | | 5YR 4/6 | 5 | С | PL | | Prominent redox concentrations | |
| | | | 10YR 5/1 | 10 | D | М | | | |
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| | | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=Depl | etion. RM | =Reduced Matrix. M | IS=Mask | ed Sand | Grains. | ² Location: PL=P | ore Lining, M=Matrix. | |
| Hydric Soil I | | , | , | | | | | roblematic Hydric Soils ³ : | |
| Histosol | (A1) | | ? Polyvalue Belo | ow Surfac | ce (S8) (I | _RR R, | 2 cm Muck (| A10) (LRR K, L, MLRA 149B) | |
| Histic Ep | ipedon (A2) | | MLRA 149B | 8) | | | ? Coast Prairie | e Redox (A16) (LRR K, L, R) | |
| Black His | stic (A3) | | Thin Dark Surf | face (S9) | (LRR R, | , MLRA 1 | 149B) 5 cm Mucky | Peat or Peat (S3) (LRR K, L, R) | |
| | n Sulfide (A4) | | High Chroma S | | | | | elow Surface (S8) (LRR K, L) | |
| | Layers (A5) | | Loamy Mucky | | | R K, L) | | urface (S9) (LRR K, L) | |
| | Below Dark Surface | e (A11) | Loamy Gleyed | | F2) | | | nese Masses (F12) (LRR K, L, R) | |
| | rk Surface (A12) | | Depleted Matri | | | | Piedmont Floodplain Soils (F19) (MLRA 149B) | | |
| | ucky Mineral (S1) | | Redox Dark Su | | | | Mesic Spodic (TA6) (MLRA 144A, 145, 149B) | | |
| | leyed Matrix (S4) | | Depleted Dark | | | | Red Parent Material (F21) | | |
| X Sandy R | | | Redox Depres Marl (F10) (LR | | 8) | | Very Shallow Dark Surface (F22) Other (Explain in Remarks) | | |
| | Matrix (S6) face (S7) | | Wall (F10) (LR | K K, L) | | | | an in Remarks) | |
| | lace (37) | | | | | | | | |
| ³ Indicators of | hydrophytic vegetat | ion and we | etland hvdrologv mu | st be pre | esent. unl | ess distu | rbed or problematic. | | |
| | ayer (if observed): | | , | | | | | | |
| Type: | | | | | | | | | |
| Depth (in | nches): | | | | | | Hydric Soil Present? | Yes X No | |
| Remarks: | | | | | | | | | |
| . to mainter | | | | | | | | | |
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Wetland COO-1 View facing east/southeast



Wetland COO-1 Soils

Phase 1

SITE PHOTOGRAPHS

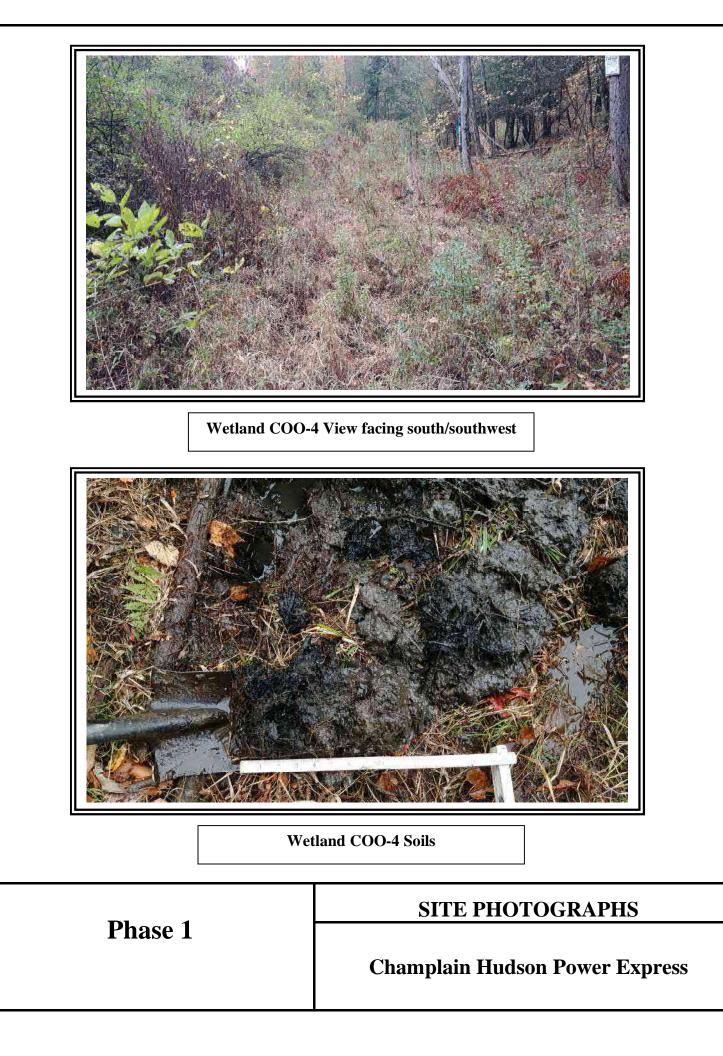
Champlain Hudson Power Express

| Project/Site: CHPE | City/County: Dresden / Washington Sampling Date: 10/15/21 |
|--|---|
| Applicant/Owner: TDI | State: NY Sampling Point: WET COO-4 |
| Investigator(s): C. Scrivner | Section, Township, Range: |
| | elief (concave, convex, none): Concave Slope %: 2 |
| Subregion (LRR or MLRA): LRR R Lat: 43-39-30.62N | Long: 73-25-54.81W Datum: WGS 84 |
| · · · · <u> </u> | |
| Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes X No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly disturbed | ed? Are "Normal Circumstances" present? Yes X No |
| Are Vegetation, Soil, or Hydrologynaturally problemat | ic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sam | pling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No |
| Wetland Hydrology Present? Yes X No | If yes, optional Wetland Site ID: Near Flag COO-4 |
| Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh. Edinger classification: Shallow Emergent Marsh | ۱. |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| X Surface Water (A1) Water-Stained Leaves (B | 9) X Drainage Patterns (B10) |
| X High Water Table (A2) Aquatic Fauna (B13) | Moss Trim Lines (B16) |
| X Saturation (A3) Marl Deposits (B15) | Dry-Season Water Table (C2) |
| Water Marks (B1) Hydrogen Sulfide Odor (C | C1) Crayfish Burrows (C8) |
| Sediment Deposits (B2) Oxidized Rhizospheres or | n Living Roots (C3) Saturation Visible on Aerial Imagery (C9) |
| Drift Deposits (B3) Presence of Reduced Iror | n (C4) Stunted or Stressed Plants (D1) |
| Algal Mat or Crust (B4) Recent Iron Reduction in | Tilled Soils (C6) X Geomorphic Position (D2) |
| Iron Deposits (B5) Thin Muck Surface (C7) | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks | |
| Sparsely Vegetated Concave Surface (B8) | X FAC-Neutral Test (D5) |
| Field Observations: | |
| Surface Water Present? Yes X No Depth (inches): | |
| Water Table Present? Yes X No Depth (inches): | |
| Saturation Present? Yes X No Depth (inches): | 0 Wetland Hydrology Present? Yes X No |
| (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev | ious inspections), il available. |
| Remarks: | - |
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Sampling Point: WET COO-4

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|--|---------------------|----------------------|---------------------|--|
| 1 | | | | Number of Dominant Species |
| 2 | | · | | That Are OBL, FACW, or FAC: 4 (A) |
| 3 4. | | | | Total Number of Dominant Species Across All Strata: 5 (B) |
| 5 | | . | , | |
| 6 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B) |
| 7 | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 30 x 1 = 30 |
| 1. Lonicera morrowii | 10 | Yes | FACU | FACW species 60 x 2 = 120 |
| 2. <u>Salix bebbiana</u> | 5 | Yes | FACW | FAC species 20 x 3 = 60 |
| 3. Betula alleghaniensis | 5 | Yes | FAC | FACU species 10 x 4 = 40 |
| 4. | | | | UPL species 0 x 5 = 0 |
| 5. | | | | Column Totals: 120 (A) 250 (B |
| 6. | | | | Prevalence Index = B/A = 2.08 |
| 7. | | | | Hydrophytic Vegetation Indicators: |
| | 20 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | - | | X 2 - Dominance Test is >50% |
| 1. Lythrum salicaria | 30 | Yes | OBL | X 3 - Prevalence Index is ≤3.0 ¹ |
| 2. Phalaris arundinacea | 30 | Yes | FACW | 4 - Morphological Adaptations ¹ (Provide supportir |
| 3. Onoclea sensibilis | 5 | No | FACW | data in Remarks or on a separate sheet) |
| 4. Equisetum arvense | 5 | No | FAC | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. Solidago gigantea | 5 | No | FACW | |
| 6. Solidago rugosa | 5 | No | FAC | ¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. |
| 7. Lysimachia nummularia | 5 | No | FACW | Definitions of Vegetation Strata: |
| 8. Symphyotrichum novae-angliae | 5 | No | FACW | |
| 9. Osmundastrum cinnamomeum | 5 | No | FACW | Tree – Woody plants 3 in. (7.6 cm) or more in diamet at breast height (DBH), regardless of height. |
| 10. Athyrium angustum | 5 | No | FAC | |
| 11. | | <u> </u> | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. |
| 12. | | <u> </u> | | |
| | 100 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | |
| , | | | | Woody vines – All woody vines greater than 3.28 ft in height. |
| | | | | - Holgin. |
| | | <u> </u> | | Hydrophytic |
| 4. | | <u> </u> | | Vegetation Present? Yes X No |
| 4. | | =Total Cover | | |
| | | = rotar Cover | | |

| Profile Desc | ription: (Describe | to the dep | oth needed to docu | ument th | e indica | tor or co | nfirm the absence of indica | tors.) | |
|--------------------|-----------------------------------|-------------|---------------------|-----------|--------------------|------------------|---|--------------------------------------|--|
| Depth | Matrix | | Redo | x Featur | es | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-1 | 10YR 2/2 | 100 | | | | | Muck | | |
| 1-6 | 10YR 2/1 | 100 | | | | | Muck | with organics | |
| 6-12 | 10YR 2/1 | 90 | 10YR 5/4 | 5 | С | М | Mucky Sand D | istinct redox concentrations | |
| | | | 10YR 3/4 | 5 | С | М | D | istinct redox concentrations | |
| | | | | | | | | | |
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| | | | | | | | | | |
| | oncentration, D=Depl | letion, RM | Reduced Matrix, N | IS=Mask | ed Sand | Grains. | ² Location: PL=Pore | | |
| Hydric Soil I | | | | | | | | plematic Hydric Soils ³ : | |
| Histosol | | | Polyvalue Belo | | ce (S8) (I | .RR R, | | 0) (LRR K, L, MLRA 149B) | |
| | bipedon (A2) | | MLRA 1498 | , | | | | edox (A16) (LRR K, L, R) | |
| Black His | | | Thin Dark Surf | | | | | at or Peat (S3) (LRR K, L, R) | |
| | n Sulfide (A4) | | High Chroma S | | | | | w Surface (S8) (LRR K, L) | |
| | I Layers (A5) | ~ (^ 1 1) | Loamy Mucky | | | (K , L) | | ace (S9) (LRR K, L) | |
| | Below Dark Surface | e (ATT) | Loamy Gleyed | | FZ) | | | e Masses (F12) (LRR K, L, R) | |
| | ark Surface (A12) | | Depleted Matri | | | | | Iplain Soils (F19) (MLRA 149B) | |
| | lucky Mineral (S1) | | Redox Dark Si | | | | | TA6) (MLRA 144A, 145, 149B) | |
| | leyed Matrix (S4) | | Depleted Dark | | | | Red Parent Ma | | |
| X Sandy R | | | Redox Depres | | 8) | | Very Shallow Dark Surface (F22) Other (Explain in Remarks) | | |
| ? Stripped | fface (S7) | | Marl (F10) (LR | (R K, L) | | | | in Remarks) | |
| | | | | | | | | | |
| | f hydrophytic vegetat | | etland hydrology mu | st be pre | esent, unl | ess distu | rbed or problematic. | | |
| | _ayer (if observed): Ro | | | | | | | | |
| Type: Depth (ir | | 12 | | | | | Hydric Soil Present? | Yes X No | |
| Remarks: | | 12 | | | | | | | |
| itemarks. | | | | | | | | | |
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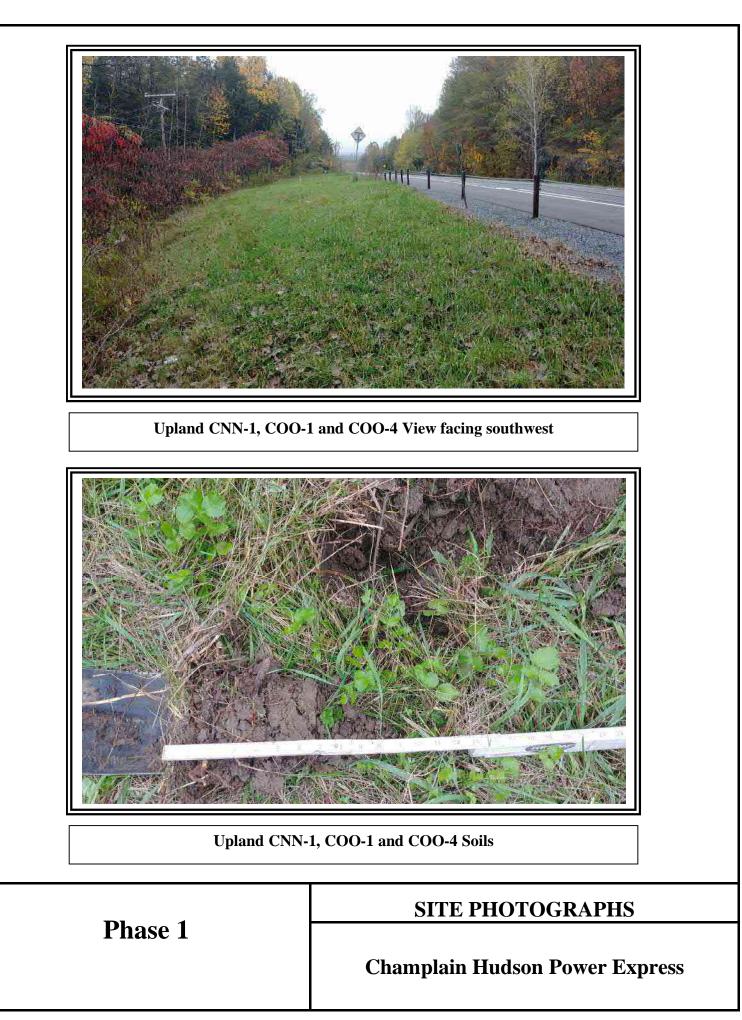
| Project/Site: CHPE | | City/County: Dresden / Washington Sampling D | ate: 10/13/21 | | | |
|--|---------------------------------|---|-----------------------------|--|--|--|
| Applicant/Owner: TDI | | State: NY Sampling | Point: UPL | | | |
| Investigator(s): J. Greaves, C. Scrivner | | Section, Township, Range: | | | | |
| Landform (hillside, terrace, etc.): Slight hillslo | pe Local re | lief (concave, convex, none): Convex | Slope %: 2 | | | |
| Subregion (LRR or MLRA): LRR R | Lat: 43-39-31.75N | | um: WGS 84 | | | |
| Soil Map Unit Name: CHC - Charlton fine sand | ly loam, 3 to 8 percent slopes, | very stony NWI classification: NA | | | | |
| Are climatic / hydrologic conditions on the site typ | pical for this time of year? | Yes X No (If no, explain in Re | marks.) | | | |
| Are Vegetation, Soil, or Hydrolog | gysignificantly disturbe | ed? Are "Normal Circumstances" present? Yes | X No | | | |
| Are Vegetation, Soil, or Hydrolog | | | | | | |
| | | bling point locations, transects, important | features, etc. | | | |
| | /es No X | Is the Sampled Area | | | | |
| | res X No X | within a Wetland? Yes <u>No X</u> | | | | |
| | res No X | If yes, optional Wetland Site ID: | | | | |
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| | | | | | | |
| HYDROLOGY | | | | | | |
| Wetland Hydrology Indicators: | | Secondary Indicators (minimum of t | wo required) | | | |
| Primary Indicators (minimum of one is required: | ; check all that apply) | Surface Soil Cracks (B6) | ······ | | | |
| Surface Water (A1) | Water-Stained Leaves (B9 | | | | | |
| High Water Table (A2) | Aquatic Fauna (B13) | Moss Trim Lines (B16) | Moss Trim Lines (B16) | | | |
| Saturation (A3) | Marl Deposits (B15) | Dry-Season Water Table (C2) | Dry-Season Water Table (C2) | | | |
| Water Marks (B1) | Hydrogen Sulfide Odor (C | 1) Crayfish Burrows (C8) | | | | |
| Sediment Deposits (B2) | Oxidized Rhizospheres on | Living Roots (C3)Saturation Visible on Aerial Ima | gery (C9) | | | |
| Drift Deposits (B3) | Presence of Reduced Iron | |) | | | |
| Algal Mat or Crust (B4) | Recent Iron Reduction in 1 | Filled Soils (C6) Geomorphic Position (D2) | | | | |
| Iron Deposits (B5) | Thin Muck Surface (C7) | Shallow Aquitard (D3) | | | | |
| Inundation Visible on Aerial Imagery (B7) | Other (Explain in Remarks | Microtopographic Relief (D4) | | | | |
| Sparsely Vegetated Concave Surface (B8) | | FAC-Neutral Test (D5) | | | | |
| Field Observations: | | | | | | |
| Surface Water Present? Yes 1 | No X Depth (inches): | | | | | |
| Water Table Present? Yes | No X Depth (inches): | | | | | |
| | | | | | | |
| Saturation Present? Yes 1 | No X Depth (inches): | Wetland Hydrology Present? Yes | <u>No X</u> | | | |
| Saturation Present? Yes I (includes capillary fringe) | No X Depth (inches): | Wetland Hydrology Present? Yes | NoX | | | |

Remarks:

Sampling Point: UPL

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|--|---------------------|----------------------|---------------------|--|
| 1. 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC:(A) |
| 3. 4. | | · | | Total Number of Dominant Species Across All Strata: <u>3</u> (B) |
| 5. 6. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3%</u> (A/B |
| 7 | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 0 x 1 = 0 |
| 1 | | | <u> </u> | FACW species 10 x 2 = 20 |
| 2 | | | | FAC species <u>15</u> x 3 = <u>45</u> |
| 3 | | | | FACU species <u>35</u> x 4 = <u>140</u> |
| 4. | | | | UPL species 40 x 5 = 200 |
| 5 | | | | Column Totals: 100 (A) 405 (B |
| 6 | | <u> </u> | | Prevalence Index = B/A = 4.05 |
| 7. | | | | Hydrophytic Vegetation Indicators: |
| | | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% |
| 1. Lolium pratense | 25 | Yes | FACU | 3 - Prevalence Index is ≤3.0 ¹ |
| 2. Pastinaca sativa | 25 | Yes | UPL | 4 - Morphological Adaptations ¹ (Provide supportir |
| 3. Setaria pumila | 15 | Yes | FAC | data in Remarks or on a separate sheet) |
| 4. Phalaris arundinacea | 10 | No | FACW | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. Lotus corniculatus | 10 | No | FACU | |
| 6. Vicia cracca | 5 | No | UPL | ¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. |
| 7. Rhus typhina | 5 | No | UPL | Definitions of Vegetation Strata: |
| 8. Rubia peregrina | 5 | No | UPL | |
| 9. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diamet at breast height (DBH), regardless of height. |
| 10. | | | | |
| 11. | | | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. |
| 12. | | | | |
| | 100 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | |
| 1, | | | | Woody vines – All woody vines greater than 3.28 ft ir height. |
| 2. | | | | |
| 3. | | | | Hydrophytic |
| 4. | | | | Vegetation Present? Yes No X |
| · · · · · · · · · · · · · · · · · · · | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a separ | | -1010.00111 | | |
| | die Sheet. | | | |
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| Depth | Matrix | | Redo | x Featur | es | | | |
|---|--|------------|--|---|--|------------------------------|--|---|
| nches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-3 | 10YR 3/2 | 100 | | | | | Loamy/Clayey | |
| 3-7 | 10YR 3/1 | 80 | 10YR 5/3 | 20 | С | М | Mucky Loam/Clay | Distinct redox concentrations |
| | | | | | | | | |
| | | | | | | | | |
| Type: C=Co | oncentration, D=Depl | etion, RM: | Reduced Matrix, M | S=Mask | ed Sand | Grains. | ² Location: PL=Pc | ore Lining, M=Matrix. |
| Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy R Sandy R Stripped Dark Su | pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) | | Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed Depleted Matri X Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR |) Sands (S9) Sands (S Mineral (Matrix (f x (F3) urface (F Surface sions (F8 R K, L) | (LRR R, 11) (LRF F1) (LRF F2) 6) (F7) 3) | MLRA 1 Ҟ K, L) Ҟ K, L) | Coast Prairie 5 cm Mucky I Polyvalue Be Thin Dark Su Iron-Mangane Piedmont Flo Mesic Spodic Red Parent N Very Shallow Other (Explai | A10) (LRR K, L, MLRA 149B) Redox (A16) (LRR K, L, R) Peat or Peat (S3) (LRR K, L, R low Surface (S8) (LRR K, L) rface (S9) (LRR K, L) ese Masses (F12) (LRR K, L, F odplain Soils (F19) (MLRA 149 (TA6) (MLRA 144A, 145, 149) Material (F21) Dark Surface (F22) n in Remarks) |
| | f hydrophytic vegetati | ion and we | etland hydrology mu | st be pre | esent, unl | ess distu | rbed or problematic. | |
| Type: | Layer (if observed): Roo nches): | | | | | | Hydric Soil Present? | Yes <u>X</u> No |
| | | | | | | | | |

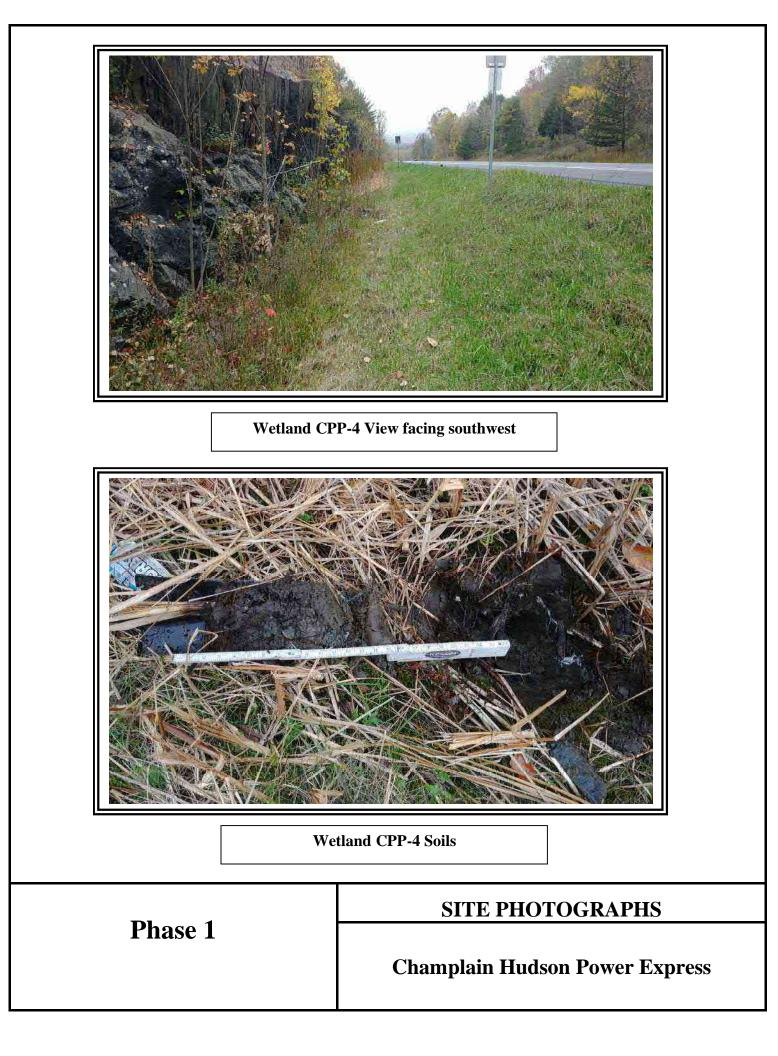


| Project/Site: CHPE | City/County: Dresden / Washington Sampling Date: 10/15/21 |
|--|---|
| Applicant/Owner: TDI | State: NY Sampling Point: WET CPP-4 |
| Investigator(s): C. Scrivner, C. Einstein | Section, Township, Range: |
| | |
| | elief (concave, convex, none): <u>Concave</u> Slope %: <u>1</u> |
| Subregion (LRR or MLRA): LRR R Lat: 43-39-27.12N | Long: <u>73-25-58.26W</u> Datum: <u>WGS 84</u> |
| Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping | and sloping NWI classification: PEM1 |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes X No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly disturb | ed? Are "Normal Circumstances" present? Yes X No |
| Are Vegetation, Soil, or Hydrologynaturally problemat | tic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sam | pling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No |
| Wetland Hydrology Present? Yes X No | If yes, optional Wetland Site ID: Near Flag CPP-4 |
| Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh dominated by cattail. Edinger classification: Sha | llow Emergent Marsh. |
| HYDROLOGY | |
| | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Water-Stained Leaves (B | |
| X High Water Table (A2) Aquatic Fauna (B13) | Moss Trim Lines (B16) |
| X Saturation (A3) Marl Deposits (B15) | Dry-Season Water Table (C2) |
| Water Marks (B1) Hydrogen Sulfide Odor (C | |
| Sediment Deposits (B2)Oxidized Rhizospheres of Deduced law | |
| Drift Deposits (B3) Presence of Reduced Iron | |
| Algal Mat or Crust (B4) Recent Iron Reduction in | |
| Iron Deposits (B5) Thin Muck Surface (C7) | X Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7)Other (Explain in Remark | |
| Sparsely Vegetated Concave Surface (B8) | X FAC-Neutral Test (D5) |
| Field Observations: | |
| Surface Water Present? Yes No X Depth (inches): | |
| Water Table Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): | 9 0 Wetland Undralagy Bracont? You You No |
| | 0 Wetland Hydrology Present? Yes X No |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev | vious inspections), if available: |
| Describe Recorded Data (stream gadge, monitoring weil, achar photos, prev | |
| Remarks: | |
| | |
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Sampling Point: WET CPP-4

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|--|---------------------|----------------------|---------------------|--|
| 1. 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC:(A) |
| 3. 4. | | · | | Total Number of Dominant Species Across All Strata: 1 (B) |
| 5. 6. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) |
| 7 | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 85 x 1 = 85 |
| 1. Fraxinus americana | 2 | No | FACU | FACW species <u>15</u> x 2 = <u>30</u> |
| 2 | | <u> </u> | | FAC species x 3 =0 |
| 3. | | | | FACU species 4 x 4 =16 |
| 4. | | | | UPL species 0 x 5 = 0 |
| 5. | | | | Column Totals: 104 (A) 131 (B) |
| 6. | | · | | Prevalence Index = $B/A = 1.26$ |
| 7. | | | | Hydrophytic Vegetation Indicators: |
| | 2 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% |
| 1. Typha angustifolia | 70 | Yes | OBL | X 3 - Prevalence Index is $\leq 3.0^{1}$ |
| 2. Lythrum salicaria | 15 | No | OBL | 4 - Morphological Adaptations ¹ (Provide supporting |
| | | | FACW | data in Remarks or on a separate sheet) |
| Impatiens capensis Symphyotrichum novae-angliae | 5 | No | FACW | Problematic Hydrophytic Vegetation ¹ (Explain) |
| Symphyounchian novae-angliae Onoclea sensibilis | 5 | No | FACW | |
| 5. Onociea sensibilis 6. | <u>ບ</u> | | ΓΑΟΥΥ | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 7 | | | | Definitions of Vegetation Strata: |
| 8 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter |
| 9 | | | | at breast height (DBH), regardless of height. |
| 10 | | <u> </u> | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | | | | Herb – All herbaceous (non-woody) plants, regardless |
| | 100 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | Weeductines All weeductines greater than 2.20 ft in |
| 1. Vitis aestivalis | 2 | No | FACU | Woody vines – All woody vines greater than 3.28 ft in height. |
| 2. | | | | |
| 3. | | · | | Hydrophytic |
| 4. | | | | Vegetation Present? Yes X No |
| | 2 | =Total Cover | | |
| Remarks: (Include photo numbers here or on a sepa | | | | |
| | ale sneel. | | | |
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| Profile Desc | ription: (Describe t | o the dep | oth needed to docu | ment th | e indicat | or or co | nfirm the absence of indica | ators.) | |
|-------------------------|--|-----------|---------------------|-----------|-------------------|------------------|---------------------------------|---|--|
| Depth | Matrix | | Redo | x Featur | es | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-6 | 10YR 2/1 | 100 | | | | | Muck | | |
| 6-11 | 10YR 3/2 | 80 | 10YR 5/4 | 10 | С | Μ | Loamy/Clayey [| Distinct redox concentrations | |
| | | | 10YR 5/4 | 10 | С | PL | | Distinct redox concentrations | |
| | | | | | | | | | |
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| | | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=Depl | etion, RM | =Reduced Matrix, M | S=Mask | ed Sand | Grains. | ² Location: PL=Por | e Lining, M=Matrix. | |
| Hydric Soil | Indicators: | | | | | | | blematic Hydric Soils ³ : | |
| Histosol | (A1) | | Polyvalue Belo | w Surfac | e (S8) (L | .RR R, | 2 cm Muck (A | 10) (LRR K, L, MLRA 149B) | |
| Histic Ep | pipedon (A2) | | MLRA 149B |) | | | ? Coast Prairie F | Redox (A16) (LRR K, L, R) | |
| Black Hi | stic (A3) | | Thin Dark Surf | ace (S9) | (LRR R, | MLRA 1 | 49B) 5 cm Mucky Po | eat or Peat (S3) (LRR K, L, R) | |
| Hydroge | n Sulfide (A4) | | High Chroma S | Sands (S | 11) (LRR | K, L) | Polyvalue Belo | ow Surface (S8) (LRR K, L) | |
| Stratified | d Layers (A5) | | Loamy Mucky | Mineral (| F1) (LRR | K, L) | Thin Dark Surf | ace (S9) (LRR K, L) | |
| Depleted | d Below Dark Surface | e (A11) | Loamy Gleyed | Matrix (F | -2) | | Iron-Manganes | se Masses (F12) (LRR K, L, R) | |
| Thick Da | ark Surface (A12) | | Depleted Matri | x (F3) | | | Piedmont Floo | dplain Soils (F19) (MLRA 149B) | |
| Sandy M | lucky Mineral (S1) | | X Redox Dark Su | urface (F | 6) | | Mesic Spodic (| (TA6) (MLRA 144A, 145, 149B) | |
| Sandy G | leyed Matrix (S4) | | Depleted Dark | Surface | (F7) | | Red Parent Ma | aterial (F21) | |
| Sandy R | edox (S5) | | Redox Depress | sions (F8 | 3) | | Very Shallow Dark Surface (F22) | | |
| | Matrix (S6) | | Marl (F10) (LR | | , | | Other (Explain in Remarks) | | |
| | rface (S7) | | | . , | | | 、 、 | , | |
| | | | | | | | | | |
| | f hydrophytic vegetati | on and w | etland hydrology mu | st be pre | sent, unl | ess distu | bed or problematic. | | |
| | L ayer (if observed): Rock / C | abblaa | | | | | | | |
| | | | | | | | Undria Cail Present? | | |
| | nches): | 11 | | | | | Hydric Soil Present? | Yes X No | |
| Remarks: | | | | | | | | | |
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| Project/Site: CHPE | City/County: Dresden / Washington Sampling Date: 10/15/21 |
|---|---|
| Applicant/Owner: TDI | State: NY Sampling Point: WET CQQ-2 |
| Investigator(s): C. Scrivner, C. Einstein | Section, Township, Range: |
| | |
| | elief (concave, convex, none): <u>Concave</u> Slope %: <u>1</u> |
| Subregion (LRR or MLRA): LRR R Lat: 43-39-22.87N | Long: <u>73-26-1.42W</u> Datum: <u>WGS 84</u> |
| Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping | and sloping NWI classification: PEM1 |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes X No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly disturbed | ed? Are "Normal Circumstances" present? Yes X No |
| Are Vegetation, Soil, or Hydrologynaturally problemat | ic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sam | pling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No |
| Wetland Hydrology Present? Yes X No | If yes, optional Wetland Site ID: Near Flag CQQ-2 |
| Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh dominated by cattail. Edinger classification: Shal | llow Emergent Marsh. |
| | |
| L HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Water-Stained Leaves (B | 9) Drainage Patterns (B10) |
| X High Water Table (A2) Aquatic Fauna (B13) | Moss Trim Lines (B16) |
| X Saturation (A3) Marl Deposits (B15) | Dry-Season Water Table (C2) |
| Water Marks (B1) Hydrogen Sulfide Odor (C | C1) Crayfish Burrows (C8) |
| Sediment Deposits (B2) Oxidized Rhizospheres or | n Living Roots (C3) Saturation Visible on Aerial Imagery (C9) |
| Drift Deposits (B3) Presence of Reduced Iror | n (C4)Stunted or Stressed Plants (D1) |
| Algal Mat or Crust (B4) Recent Iron Reduction in | Tilled Soils (C6) X Geomorphic Position (D2) |
| Iron Deposits (B5) Thin Muck Surface (C7) | X Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks | s) Microtopographic Relief (D4) |
| Sparsely Vegetated Concave Surface (B8) | X FAC-Neutral Test (D5) |
| Field Observations: | |
| Surface Water Present? Yes No X Depth (inches): | |
| Water Table Present? Yes X No Depth (inches): | 6 |
| Saturation Present? Yes X No Depth (inches): | 0 Wetland Hydrology Present? Yes X No |
| (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev | ious inspections), if available: |
| | |
| Remarks: | |
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Sampling Point: WET CQQ-2

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|--|---------------------|----------------------|---------------------|---|
| 1. 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) |
| 3 | | | | Total Number of Dominant Species Across All Strata: 1 (B) |
| 5. | | | | Percent of Dominant Species |
| 6 7. | | | | That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: |
| / | | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | $\frac{1}{\text{OBL species}} \begin{array}{c} 90 \\ x 1 = 90 \end{array}$ |
| | | | | FACW species 10 $x 2 = 20$ |
| | | | | FAC species $0 \times 3 = 0$ |
| 2 | | | | FACU species $0 	 x4 = 0$ |
| 4 | | | | UPL species $0 \times 5 = 0$ |
| 5 | | | | Column Totals: 100 (A) 110 (B) |
| 6 | | | | |
| 7. | | | | Prevalence Index = B/A = 1.10 Hydrophytic Vegetation Indicators: |
| / | | =Total Cover | | |
| Herb Stratum (Plot size: 5') | · | | | 1 - Rapid Test for Hydrophytic Vegetation |
| | 00 | Mar | | X 2 - Dominance Test is >50% |
| 1. Typha angustifolia | 80 | Yes | | <u>X</u> 3 - Prevalence Index is $\leq 3.0^1$ |
| 2. Lythrum salicaria | 10 | No | OBL | 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) |
| 3. <u>Phalaris arundinacea</u> | 10 | No | FACW | |
| 4 | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5 | | | | ¹ Indicators of hydric soil and wetland hydrology must be |
| 6 | | | | present, unless disturbed or problematic. |
| 7 | | | | Definitions of Vegetation Strata: |
| 8 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter |
| 9 | | | | at breast height (DBH), regardless of height. |
| 10 | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | | | | Herb – All herbaceous (non-woody) plants, regardless |
| | 100 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | Woody vines – All woody vines greater than 3.28 ft in |
| 1 | | | | height. |
| 2 | | | | Hydrophytic |
| 3 | | | | Vegetation |
| 4 | | | | Present? Yes <u>X</u> No |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a separation of the sep | ate sheet.) | | | |
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| | • • | to the dep | | | | tor or co | nfirm the absence of indicat | tors.) | |
|---------------|--|------------|---------------------|-----------|---------------------------------------|------------------|--------------------------------|--|--|
| Depth | Matrix | | | x Featur | | . 2 | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-7 | 10YR 2/1 | 100 | | | | | Muck | | |
| 7-10 | 10YR 4/2 | 80 | 10YR 5/6 | 10 | С | М | Loamy/Clayey Pro | priment redox concentrations | |
| | | | 10YR 5/6 | 10 | С | PL | Pro | minent redox concentrations | |
| | | | | | | | | | |
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| | oncentration, D=Depl | etion, RM | =Reduced Matrix, M | IS=Mask | ed Sand | Grains. | ² Location: PL=Pore | - | |
| Hydric Soil I | | | Debuglue Dela | | · · · · · · · · · · · · · · · · · · · | | | olematic Hydric Soils ³ : | |
| Histosol | (A1) bipedon (A2) | | Polyvalue Belo | | ;e (58) (L | .RR R, | | 0) (LRR K, L, MLRA 149B) edox (A16) (LRR K, L, R) | |
| Black His | | | Thin Dark Surf | , | (I RR R | MIRA 1 | | at or Peat (S3) (LRR K, L, R) | |
| | n Sulfide (A4) | | High Chroma S | | | | | w Surface (S8) (LRR K, L) | |
| | Layers (A5) | | Loamy Mucky | | | | | ace (S9) (LRR K, L) | |
| | Below Dark Surface | e (A11) | Loamy Gleyed | | | , _/ | | e Masses (F12) (LRR K, L, R) | |
| | ark Surface (A12) | () | Depleted Matri | | , | | | Iplain Soils (F19) (MLRA 149B) | |
| | lucky Mineral (S1) | | Redox Dark S | . , | 6) | | | ГА6) (MLRA 144A, 145, 149B) | |
| | leyed Matrix (S4) | | Depleted Dark | • | , | | Red Parent Ma | | |
| | edox (S5) | | Redox Depres | | . , | | | ark Surface (F22) | |
| | Matrix (S6) | | Marl (F10) (LR | | , | | Other (Explain in Remarks) | | |
| | face (S7) | | | | | | | · | |
| 3 | | | | | | | | | |
| | f hydrophytic vegetati _ayer (if observed): | on and w | etland hydrology mu | st be pre | sent, unl | ess distu | rbed or problematic. | | |
| Type: | Roc | ck | | | | | | | |
| | nches): | 10 | | | | | Hydric Soil Present? | Yes X No | |
| Remarks: | , | | | | | | | | |
| Nemarks. | | | | | | | | | |
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Champlain Hudson Power Express

| Project/Site: CHPE | City/County | /: Dresden / Washington | Sampling Date: 10/15/21 | | | | |
|--|---|------------------------------------|--------------------------|--|--|--|--|
| Applicant/Owner: TDI | | State: NY | Sampling Point: UPL | | | | |
| Investigator(s): C. Scrivner, C. Einstein | Se | ection, Township, Range: | | | | | |
| Landform (hillside, terrace, etc.): Hillslope / roa | adside shoulder Local relief (conca | ve, convex, none): Concave | Slope %: 2 | | | | |
| Subregion (LRR or MLRA): LRR R | Lat: 43-39-24.06N | Long: 73-26-0.67W | Datum: WGS 84 | | | | |
| Soil Map Unit Name: HNC - Hollis-Rock outcrop | association, gently sloping and sloping | NWI classification: | NA | | | | |
| Are climatic / hydrologic conditions on the site typ | ical for this time of year? | Yes X No (If no, | explain in Remarks.) | | | | |
| Are Vegetation, Soil, or Hydrology | <pre>/significantly disturbed?</pre> | Are "Normal Circumstances" pres | ent? Yes X No | | | | |
| Are Vegetation, Soil, or Hydrology | /naturally problematic? | (If needed, explain any answers ir | n Remarks.) | | | | |
| SUMMARY OF FINDINGS – Attach sit | e map showing sampling poi | int locations, transects, in | nportant features, etc. | | | | |
| | | , | | | | | |
| Hydrophytic Vegetation Present? Ye | | mpled Area | | | | | |
| Hydric Soil Present? Ye | | Wetland? Yes | No <u>X</u> | | | | |
| Wetland Hydrology Present? Ye | s No X If yes, op | tional Wetland Site ID: | | | | | |
| | | | | | | | |
| HYDROLOGY | | | | | | | |
| Wetland Hydrology Indicators: | | Secondary Indicators (| minimum of two required) | | | | |
| Primary Indicators (minimum of one is required; | check all that apply) | Surface Soil Crack | s (B6) | | | | |
| Surface Water (A1) | Water-Stained Leaves (B9) | Drainage Patterns | (B10) | | | | |
| High Water Table (A2) | Aquatic Fauna (B13) | Moss Trim Lines (B | Moss Trim Lines (B16) | | | | |
| Saturation (A3) | Marl Deposits (B15) | Dry-Season Water | Table (C2) | | | | |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | Crayfish Burrows (| C8) | | | | |
| Sediment Deposits (B2) | _Oxidized Rhizospheres on Living Ro | ots (C3) Saturation Visible | on Aerial Imagery (C9) | | | | |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | Stunted or Stresse | d Plants (D1) | | | | |
| Algal Mat or Crust (B4) | _Recent Iron Reduction in Tilled Soils | (C6) Geomorphic Positi | on (D2) | | | | |
| Iron Deposits (B5) | Thin Muck Surface (C7) | Shallow Aquitard (| D3) | | | | |
| Inundation Visible on Aerial Imagery (B7) | Other (Explain in Remarks) | Microtopographic F | Relief (D4) | | | | |
| Sparsely Vegetated Concave Surface (B8) | | FAC-Neutral Test | (D5) | | | | |
| Field Observations: | | | | | | | |

| Surface Water Present? | Yes | No <u>X</u> | Depth (inches): | | | | |
|--|-----|-------------|-----------------|----------------------------|--|--|--|
| Water Table Present? | Yes | No <u>X</u> | Depth (inches): | | | | |
| Saturation Present? | Yes | No <u>X</u> | Depth (inches): | Wetland Hydrology Present? | | | |
| (includes capillary fringe) | | | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | | | | | |
| | | | | | | | |
| Distance of a | | | | | | | |

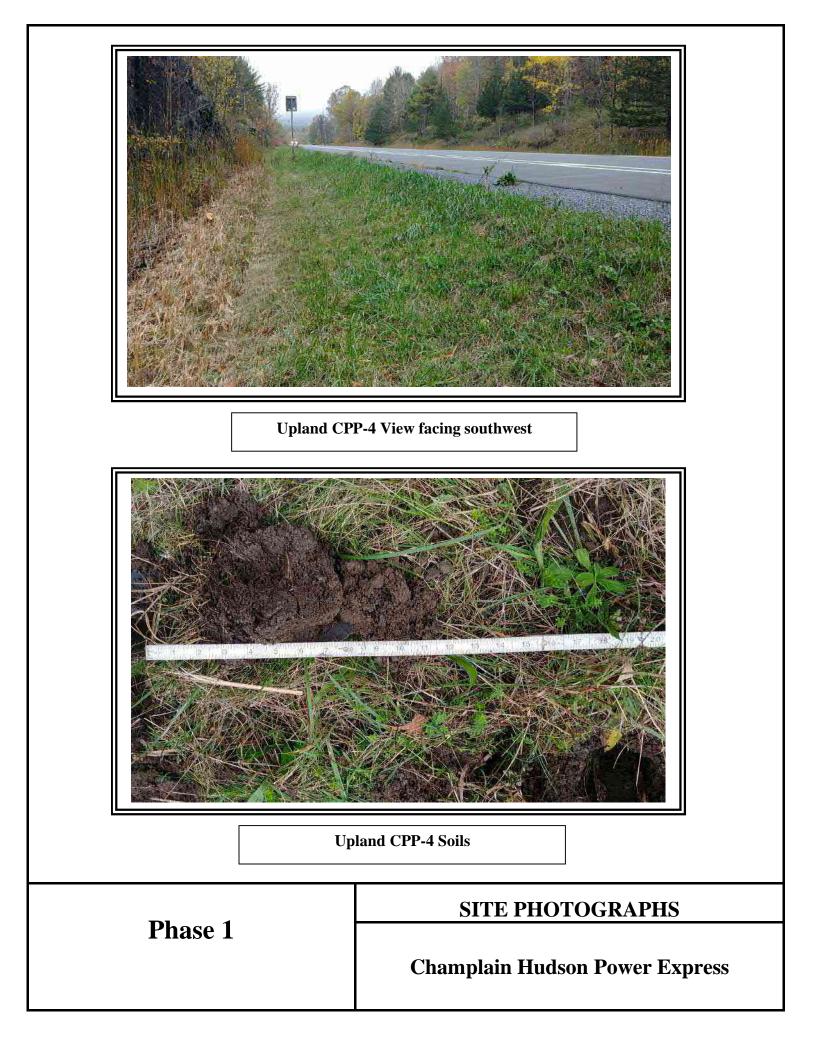
Remarks:

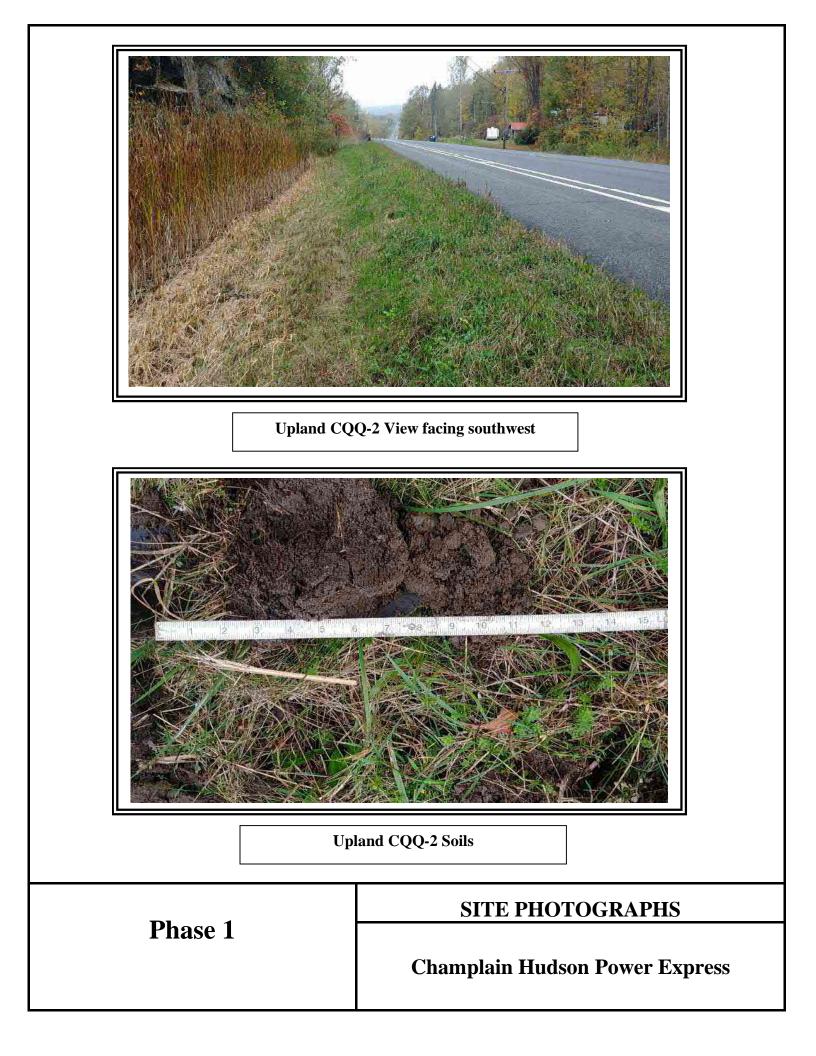
Yes No X

Sampling Point: UPL

| <u>Tree Stratum</u> (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|---|---------------------|----------------------|---------------------|--|
| 1. | | | | |
| 2. | | | | Number of Dominant SpeciesThat Are OBL, FACW, or FAC:1(A) |
| 3. | | | | Tatal Number of Deminent |
| 4. | | | | Total Number of DominantSpecies Across All Strata:3(B) |
| 5. | | | | Percent of Dominant Species |
| 6. | | | | That Are OBL, FACW, or FAC: 33.3% (A/B) |
| 7. | | | | Prevalence Index worksheet: |
| | : | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species x 1 = |
| 1 | | | | FACW species 0 x 2 = 0 |
| 2 | | | | FAC species X 3 =90 |
| 3 | | | | FACU species 35 x 4 =140 |
| 4 | | | | UPL species 35 x 5 =175 |
| 5 | | | | Column Totals: 100 (A) 405 (B) |
| 6. | | | | Prevalence Index = B/A = 4.05 |
| 7. | | | | Hydrophytic Vegetation Indicators: |
| | : | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% |
| 1. Lolium pratense | 30 | Yes | FACU | 3 - Prevalence Index is ≤3.0 ¹ |
| 2. Setaria pumila | 30 | Yes | FAC | 4 - Morphological Adaptations ¹ (Provide supporting |
| 3. Rubia peregrina | 20 | Yes | UPL | data in Remarks or on a separate sheet) |
| 4. Rubia peregrina | 10 | No | UPL | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. Vicia cracca | 5 | No | UPL | ¹ Indicators of hydric soil and wetland hydrology must be |
| 6. Trifolium pratense | 5 | No | FACU | present, unless disturbed or problematic. |
| 7. | | | | Definitions of Vegetation Strata: |
| 8. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter |
| 9. | | | | at breast height (DBH), regardless of height. |
| 10. | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 12. | | | | Herb – All herbaceous (non-woody) plants, regardless |
| | 100 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | Woody vines – All woody vines greater than 3.28 ft in |
| 1 | | | | height. |
| 2 | | | | |
| 3 | | | | Hydrophytic Vegetation |
| 4 | | | | Present? Yes No X |
| | : | =Total Cover | | |
| Remarks: (Include photo numbers here or on a separa | ate sheet.) | | | |
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| Depth | Matrix | | | x Featu | | | nfirm the absence of indic | |
|---------------|---------------------|------------|------------------------|-----------------|--------------------|------------------|----------------------------|---------------------------------------|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| | | | | | | | | |
| 0-11 | 10YR 3/2 | 100 | | | · | | Sandy | |
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| | | | | | · | | | |
| | | letion, RM | =Reduced Matrix, M | S=Mask | ked Sand | Grains. | | re Lining, M=Matrix. |
| Hydric Soil I | | | | | | | | oblematic Hydric Soils ³ : |
| Histosol | | | Polyvalue Belo | | ce (S8) (L | .RR R, | | 10) (LRR K, L, MLRA 149B) |
| | ipedon (A2) | | MLRA 149B | , | | | | Redox (A16) (LRR K, L, R) |
| Black His | . , | | Thin Dark Surf | | | | | Peat or Peat (S3) (LRR K, L, R) |
| | n Sulfide (A4) | | High Chroma S | | | | | ow Surface (S8) (LRR K, L) |
| | Layers (A5) | | Loamy Mucky | | | R K, L) | | face (S9) (LRR K, L) |
| | Below Dark Surface | e (A11) | Loamy Gleyed | | F2) | | | ese Masses (F12) (LRR K, L, R) |
| | rk Surface (A12) | | Depleted Matri | | | | | odplain Soils (F19) (MLRA 149B) |
| | ucky Mineral (S1) | | Redox Dark Su | | | | | (TA6) (MLRA 144A, 145, 149B) |
| | leyed Matrix (S4) | | Depleted Dark | Surface | e (F7) | | Red Parent M | aterial (F21) |
| | edox (S5) | | Redox Depress | | 8) | | | Dark Surface (F22) |
| | Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other (Explain | n in Remarks) |
| Dark Sur | face (S7) | | | | | | | |
| | | | | | | | | |
| | | | etland hydrology mu | st be pre | esent, unl | ess distu | rbed or problematic. | |
| | ayer (if observed): | | | | | | | |
| | Rock / C | | | | | | | |
| Depth (in | iches): | 11 | | | | | Hydric Soil Present? | Yes <u>No X</u> |
| Remarks: | | | | | | | • | |
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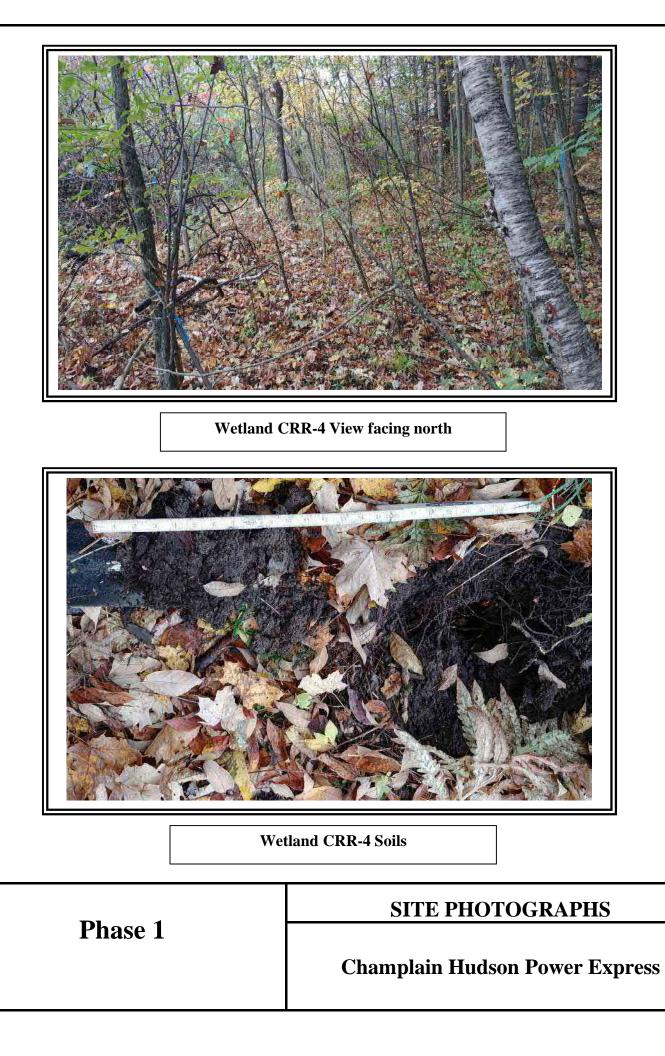


| Project/Site: CHPE | City/County: Dresden / Washington Sampling Date: 10/15/21 |
|--|--|
| | |
| Applicant/Owner: TDI | State: NY Sampling Point: WET CRR-4 |
| Investigator(s): C. Scrivner, C. Einstein | Section, Township, Range: |
| Landform (hillside, terrace, etc.): Flat Loca | Il relief (concave, convex, none): <u>None</u> Slope %: <u>0</u> |
| Subregion (LRR or MLRA): LRR R Lat: 43-39-20.35N | Long: 73-26-2.27W Datum: WGS 84 |
| Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently slopin | ng and sloping NWI classification: PFO1 |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes X No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly distu | urbed? Are "Normal Circumstances" present? Yes X No |
| Are Vegetation, Soil, or Hydrologynaturally problem | |
| | mpling point locations, transects, important features, etc. |
| | |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No | within a Wetland? Yes X No If yes, optional Wetland Site ID: Near Flag CRR-4 |
| | il yes, optional Wetland Site ID. Neal Flag CKK-4 |
| Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Forested Wetland. Edinger classification: Red-maple Hardwood | d Swamp |
| Talustille Folested Wetland. Lunger classification. Red-maple Hardwood | u Swamp. |
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| L HYDROLOGY | |
| | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Water-Stained Leaves | |
| High Water Table (A2) Aquatic Fauna (B13) | Moss Trim Lines (B16) |
| Saturation (A3) Marl Deposits (B15) | Dry-Season Water Table (C2) |
| Water Marks (B1) Hydrogen Sulfide Odor | |
| Sediment Deposits (B2) Oxidized Rhizospheres | |
| Drift Deposits (B3) Presence of Reduced I | |
| Algal Mat or Crust (B4) Recent Iron Reduction | |
| Iron Deposits (B5) Thin Muck Surface (C7 | , |
| Inundation Visible on Aerial Imagery (B7) X Other (Explain in Rema | arks) Microtopographic Relief (D4) |
| Sparsely Vegetated Concave Surface (B8) | X FAC-Neutral Test (D5) |
| Field Observations: | |
| Surface Water Present? Yes No X Depth (inches |): |
| Water Table Present? Yes No X Depth (inches |): |
| Water Table Present? Yes No X Depth (inches Saturation Present? Yes No X Depth (inches |): Wetland Hydrology Present? Yes X No |
| (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr | revious inspections), if available: |
| | |
| | |
| Remarks: | |
| Adjacent to stream CS24. | |
| | |
| | |
| | |

Sampling Point: WET CRR-4

| Tree Stratum (Plot size: 30') | Absolute % Cover | | Indicator Status | Dominance Test worksheet: | | |
|--|---------------------|--------------|---------------------|--|--|--|
| 1. Fraxinus pennsylvanica | 40 | Yes | FACW | | | |
| 2. Acer saccharum | 20 | Yes | FACU | Number of Dominant SpeciesThat Are OBL, FACW, or FAC:4(A | | |
| 3. Betula populifolia | 10 | No | FAC | | | |
| 4. Quercus rubra | 5 | No | FACU | Total Number of Dominant Species Across All Strata: 6 (B) | | |
| 5. Ulmus americana | 5 | No | FACW | Demonst of Deminent Creation | | |
| 6. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A | | |
| 7. | | | | Prevalence Index worksheet: | | |
| | 80 | =Total Cover | | Total % Cover of: Multiply by: | | |
| Sapling/Shrub Stratum (Plot size: 15') | | - | | OBL species 0 x 1 = 0 | | |
| 1. Fraxinus americana | 10 | Yes | FACU | FACW species 110 x 2 = 220 | | |
| 2. Acer rubrum | 10 | Yes | FAC | FAC species 30 x 3 = 90 | | |
| 3. Ulmus americana | 10 | Yes | FACW | FACU species 52 x 4 = 208 | | |
| 4. Lonicera morrowii | 5 | No | FACU | UPL species 0 x 5 = 0 | | |
| 5. Viburnum lentago | 5 | No | FAC | Column Totals: 192 (A) 518 | | |
| 6. | | | | Prevalence Index = B/A = 2.70 | | |
| 7. | | | | Hydrophytic Vegetation Indicators: | | |
| | 40 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation | | |
| Herb Stratum (Plot size: 5') | | - | | X 2 - Dominance Test is >50% | | |
| 1. Onoclea sensibilis | 45 | Yes | FACW | X 3 - Prevalence Index is $\leq 3.0^1$ | | |
| 2. Lonicera morrowii | 5 | No | FACU | 4 - Morphological Adaptations ¹ (Provide supportir | | |
| 3. Acer rubrum | 5 | No | FAC | data in Remarks or on a separate sheet) | | |
| 4. Solidago gigantea | 5 | No | FACW | Problematic Hydrophytic Vegetation ¹ (Explain) | | |
| 5. Lysimachia nummularia | 5 | No | FACW | ¹Indicators of hydric soil and wetland hydrology must b | | |
| 6. Geranium robertianum | 5 | No | FACU | present, unless disturbed or problematic. | | |
| 7. | | | | Definitions of Vegetation Strata: | | |
| 8. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diam | | |
| 9 | | | | at breast height (DBH), regardless of height. | | |
| 10 | | | | Sapling/shrub – Woody plants less than 3 in. DBH | | |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. | | |
| 40 | | | | Herb – All herbaceous (non-woody) plants, regardle | | |
| 12. | 70 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. | | |
| 12 | 10 | | | | | |
| Woody Vine Stratum (Plot size: 30') | | | | Weedy vince All weedy vince greater than 2.29 ft | | |
| | 2 | No | FACU | Woody vines – All woody vines greater than 3.28 ft height. | | |
| Woody Vine Stratum (Plot size: 30') | | No | FACU | | | |
| <u>Woody Vine Stratum</u> (Plot size: <u>30'</u>) 1. <u>Vitis aestivalis</u> | | No | FACU | height. Hydrophytic | | |
| <u>Woody Vine Stratum</u> (Plot size: <u>30'</u>) 1. <u>Vitis aestivalis</u> 2. | | <u>No</u> | FACU | height. | | |

| Profile Desc | ription: (Describe | to the de | oth needed to docu | ument th | e indica | tor or co | nfirm the absence of indica | tors.) | |
|----------------------------|----------------------|-----------|---------------------|------------|--------------------|------------------|---------------------------------|---|--|
| Depth | Matrix | | | ox Featur | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-7 | 10YR 2/1 | 100 | | | | | Loamy/Clayey | | |
| 7-10 | 10YR 4/1 | 90 | 10YR 4/3 | 10 | С | М | Loamy/Clayey D | listinct redox concentrations | |
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| ¹ Type: C=Co | oncentration, D=Depl | etion, RM | =Reduced Matrix, M | 1S=Mask | ed Sand | Grains. | ² Location: PL=Pore | e Lining, M=Matrix. | |
| Hydric Soil I | | * | | | | | | blematic Hydric Soils ³ : | |
| Histosol | (A1) | | Polyvalue Belo | ow Surfac | ce (S8) (I | LRR R, | 2 cm Muck (A1 | 0) (LRR K, L, MLRA 149B) | |
| Histic Ep | ipedon (A2) | | MLRA 149E | B) | | | Coast Prairie R | edox (A16) (LRR K, L, R) | |
| Black His | stic (A3) | | Thin Dark Sur | face (S9) | (LRR R | , MLRA 1 | 49B) 5 cm Mucky Pe | eat or Peat (S3) (LRR K, L, R) | |
| | n Sulfide (A4) | | High Chroma | | | | | w Surface (S8) (LRR K, L) | |
| | Layers (A5) | | Loamy Mucky | | | R K, L) | Thin Dark Surfa | ace (S9) (LRR K, L) | |
| | Below Dark Surface | e (A11) | Loamy Gleyed | | -2) | | | e Masses (F12) (LRR K, L, R) | |
| | rk Surface (A12) | | Depleted Matr | | | | | dplain Soils (F19) (MLRA 149B) | |
| Sandy M | ucky Mineral (S1) | | Redox Dark S | urface (F | 6) | | Mesic Spodic (| TA6) (MLRA 144A, 145, 149B) | |
| Sandy G | leyed Matrix (S4) | | Depleted Dark | Surface | (F7) | | Red Parent Material (F21) | | |
| | edox (S5) | | Redox Depres | | 3) | | Very Shallow Dark Surface (F22) | | |
| | Matrix (S6) | | Marl (F10) (LF | RRK,L) | | | Other (Explain | in Remarks) | |
| Dark Sur | face (S7) | | | | | | | | |
| ³ Indicators of | hydrophytic vegetati | ion and w | atland bydrology mu | ict ha pro | cont un | loce dictu | rhad ar problematic | | |
| | -ayer (if observed): | on and w | elianu nyurology mu | ist be pre | sent, un | | | | |
| Туре: | Roc | ck | | | | | | | |
| Depth (ir | | 10 | | | | | Hydric Soil Present? | Yes X No | |
| Remarks: | | - | | | | | | | |
| Remarks: | | | | | | | | | |
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| Project/Site: CHPE | | | City/County: Dresden | n / Washington | Sampling Date: 10/15/21 | | |
|--|---|---|------------------------|--------------------------|---------------------------|--|--|
| Applicant/Owner: TDI | | | | State: NY | Sampling Point: UPL CRR-4 | | |
| Investigator(s): C. Scrivner, C. Ein | istein | | Section, Tow | vnship, Range: | | | |
| Landform (hillside, terrace, etc.): | Hillslope | Local re | elief (concave, convex | (, none): <u>Concave</u> | Slope %: 3 | | |
| Subregion (LRR or MLRA): LRR I | R Lat: | 43-39-20.46N | Long: | 73-26-2.99W | Datum: WGS 84 | | |
| Soil Map Unit Name: HNC - Hollis | S-Rock outcrop associa | tion, gently sloping | and sloping | NWI classification: | NA | | |
| Are climatic / hydrologic conditions | on the site typical for th | his time of year? | Yes X | No (If no, e | explain in Remarks.) | | |
| Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No | | | | | | | |
| | Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, explain any answers in Remarks.) | | | | | | |
| SUMMARY OF FINDINGS - | | | | ions, transects, im | nportant features, etc. | | |
| Hydrophytic Vegetation Present? | Yes | No X | Is the Sampled Are | ea | | | |
| Hydric Soil Present? | Yes | No X | within a Wetland? | | No X | | |
| Wetland Hydrology Present? | Yes | No X | If yes, optional Wetl | land Site ID: | | | |
| Remarks: (Explain alternative procedures here or in a separate report.) Successional Shrubland / Riprap hillside. | | | | | | | |
| HYDROLOGY | | | | | | | |
| Wetland Hydrology Indicators: | | | | Secondary Indicators (m | ninimum of two required) | | |
| Primary Indicators (minimum of on | <u>ie is required; check all</u> | that apply) | <u> </u> | Surface Soil Cracks | ; (B6) | | |
| Surface Water (A1) | | -Stained Leaves (BS | Э) | Drainage Patterns (| | | |
| High Water Table (A2) | · | ic Fauna (B13) | | Moss Trim Lines (B | , | | |
| Saturation (A3) | | eposits (B15) | | Dry-Season Water | () | | |
| Water Marks (B1) | Hydrog | gen Sulfide Odor (C | .1) | Crayfish Burrows (C | (8) | | |
| Sediment Deposits (B2) | Oxidiz | Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Image | | | | | |

| (includes capillary fringe) | |
|--|------------------------|
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspe | ctions), if available: |

No X

Presence of Reduced Iron (C4)

Depth (inches):

Thin Muck Surface (C7)

No X Depth (inches):

No X Depth (inches):

Other (Explain in Remarks)

Recent Iron Reduction in Tilled Soils (C6)

besonde recorded Data (stream gauge, monitoring weil, aenal photos, previous inspections), il av

Remarks:

Drift Deposits (B3)

Iron Deposits (B5)

Field Observations:

Surface Water Present?

Water Table Present?

Saturation Present?

Algal Mat or Crust (B4)

Inundation Visible on Aerial Imagery (B7)

Sparsely Vegetated Concave Surface (B8)

Yes

Yes

Yes

Yes No X

Stunted or Stressed Plants (D1)

Geomorphic Position (D2)

Microtopographic Relief (D4)

Shallow Aquitard (D3)

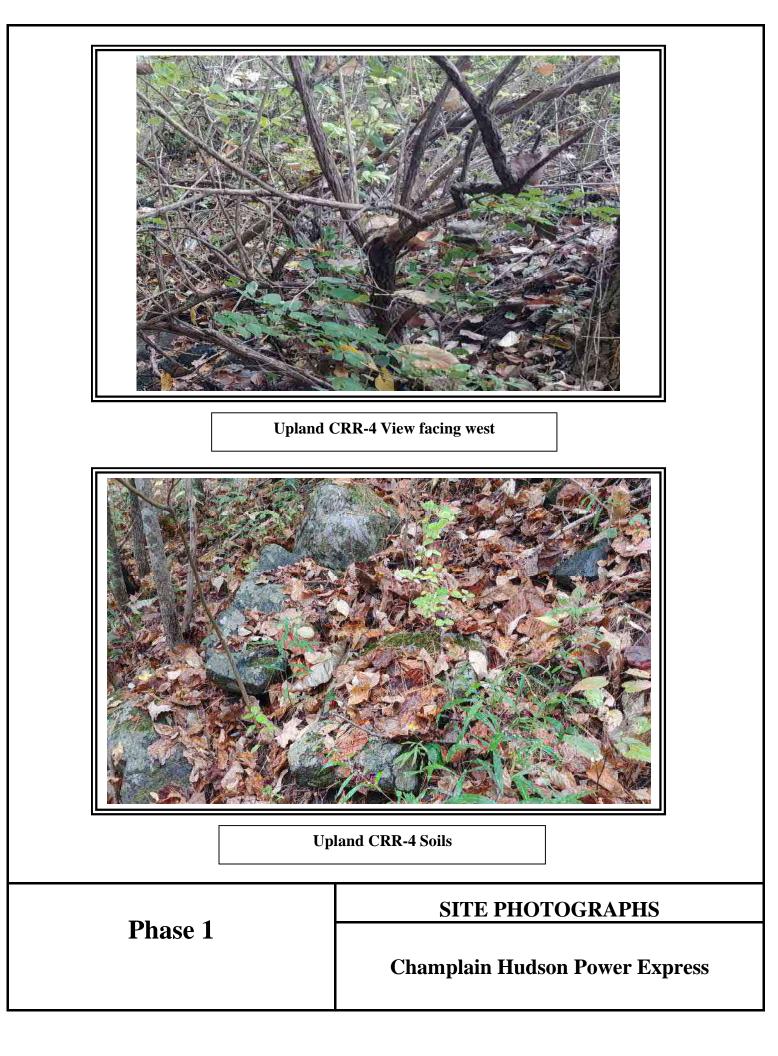
FAC-Neutral Test (D5)

Wetland Hydrology Present?

Sampling Point: UPL CRR-4

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | | |
|---------------------------------------|---------------------|----------------------|---------------------|--|--|--|
| 1. Fraxinus americana | 10 | Yes | FACU | Number of Dominant Species | | |
| 2 | | | | That Are OBL, FACW, or FAC: 0 (A) | | |
| 3 4 | | | | Total Number of Dominant Species Across All Strata: 5 (B) | | |
| 5 5 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B | | |
| 7. | | | | Prevalence Index worksheet: | | |
| | 10 | =Total Cover | | Total % Cover of: Multiply by: | | |
| Sapling/Shrub Stratum (Plot size: 15' |) | - | | OBL species 0 $x 1 = 0$ | | |
| 1. Lonicera morrowii | <i>6</i> 0 | Yes | FACU | FACW species $0 	 x 2 = 0$ | | |
| 2. Fraxinus americana | 10 | No | FACU | FAC species $0 \times 3 = 0$ | | |
| 3. Rhus typhina | 10 | No | UPL | FACU species 145 x 4 = 580 | | |
| 4. Quercus alba | 5 | No | FACU | UPL species 20 x 5 = 100 | | |
| 5. | | | | Column Totals: 165 (A) 680 (B | | |
| | | | | Prevalence Index = $B/A = 4.12$ | | |
| 7. | | | | Hydrophytic Vegetation Indicators: | | |
| · | 85 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation | | |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% | | |
| 1. Solidago canadensis | 35 | Yes | FACU | $3 - Prevalence Index is \leq 3.0^{1}$ | | |
| 2. Lonicera morrowii | <u></u> | Yes | FACU | 4 - Morphological Adaptations ¹ (Provide supportin | | |
| 3. Rhus typhina | <u> </u> | No | UPL | data in Remarks or on a separate sheet) | | |
| 4. Pinus strobus | <u>10</u> 5 | No No | FACU | - Problematic Hydrophytic Vegetation ¹ (Explain) | | |
| 5. | | | 1400 | | | |
| б | | | | ¹ Indicators of hydric soil and wetland hydrology must b present, unless disturbed or problematic. | | |
| 7 | | | | Definitions of Vegetation Strata: | | |
| 3 9. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. | | |
| 10 | _ | | | Sapling/shrub – Woody plants less than 3 in. DBH | | |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. | | |
| 12 | | | | Herb - All herbaceous (non-woody) plants, regardless | | |
| | 65 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. | | |
| Noody Vine Stratum (Plot size: 30' |) | | | Woody vines – All woody vines greater than 3.28 ft ir | | |
| | 5 | Yes | FACU | height. | | |
| 1. Vitis aestivalis | | | | | | |
| 1. <u>Vitis aestivalis</u> 2. | | | | Lydrophytic | | |
| | | | | Hydrophytic Vegetation | | |
| 2. | | | | | | |

| Profile Description: (Des | cribe to the dep | oth needed to docu | ment th | e indica | tor or co | nfirm the absence of indicate | ors.) | |
|---|------------------|-------------------------|-----------|--------------------|------------------|--------------------------------|------------------------------------|----------|
| Depth Ma | atrix | Redo | x Featur | res | | | | |
| (inches) Color (mo | oist) % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
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| ¹ Type: C=Concentration, D | -Depletion RM | -Reduced Matrix M | S-Mask | ed Sand | Grains | ² Location: PL=Pore | Lining M-Matrix | |
| Hydric Soil Indicators: | | | 0-111031 | eu ouriu | Oraino. | | ematic Hydric Soils ³ : | |
| Histosol (A1) | | Polyvalue Belo | w Surfa | ce (S8) (I | RR R. | |) (LRR K, L, MLRA 14 | |
| Histic Epipedon (A2) | | MLRA 149B | | | , | | dox (A16) (LRR K, L, l | |
| Black Histic (A3) | | Thin Dark Surf | , |) (LRR R, | MLRA 1 | | t or Peat (S3) (LRR K, | , |
| Hydrogen Sulfide (A4) | | High Chroma S | | | | | Surface (S8) (LRR K, | |
| Stratified Layers (A5) | | Loamy Mucky | | | | | ce (S9) (LRR K, L) | , |
| Depleted Below Dark S | Surface (A11) | Loamy Gleyed | | | . , | | Masses (F12) (LRR K | K, L, R) |
| Thick Dark Surface (A1 | | Depleted Matri | | | | Piedmont Flood | plain Soils (F19) (MLR | A 149B) |
| Sandy Mucky Mineral (| | Redox Dark Su | | -6) | | | A6) (MLRA 144A, 145 | |
| Sandy Gleyed Matrix (S | | Depleted Dark | | | | Red Parent Mate | | . , |
| Sandy Redox (S5) | , | Redox Depres | | | | Very Shallow Da | | |
| Stripped Matrix (S6) | | Marl (F10) (LR | | , | | Other (Explain in | | |
| Dark Surface (S7) | | | | | | | | |
| | | | | | | | | |
| ³ Indicators of hydrophytic ve | egetation and w | etland hydrology mu | st be pre | esent, unl | ess distu | rbed or problematic. | | |
| Restrictive Layer (if obser | | | | | | | | |
| Type: R | ock / Riprap | | | | | | | |
| Depth (inches): | 0 | | | | | Hydric Soil Present? | Yes No | х |
| Remarks: | | | | | | | | |
| Remarks. | | | | | | | | |
| Riprap / Rock hillslide. Soils | s not obtained d | ue to the significant a | amount | of riprap. | | | | |
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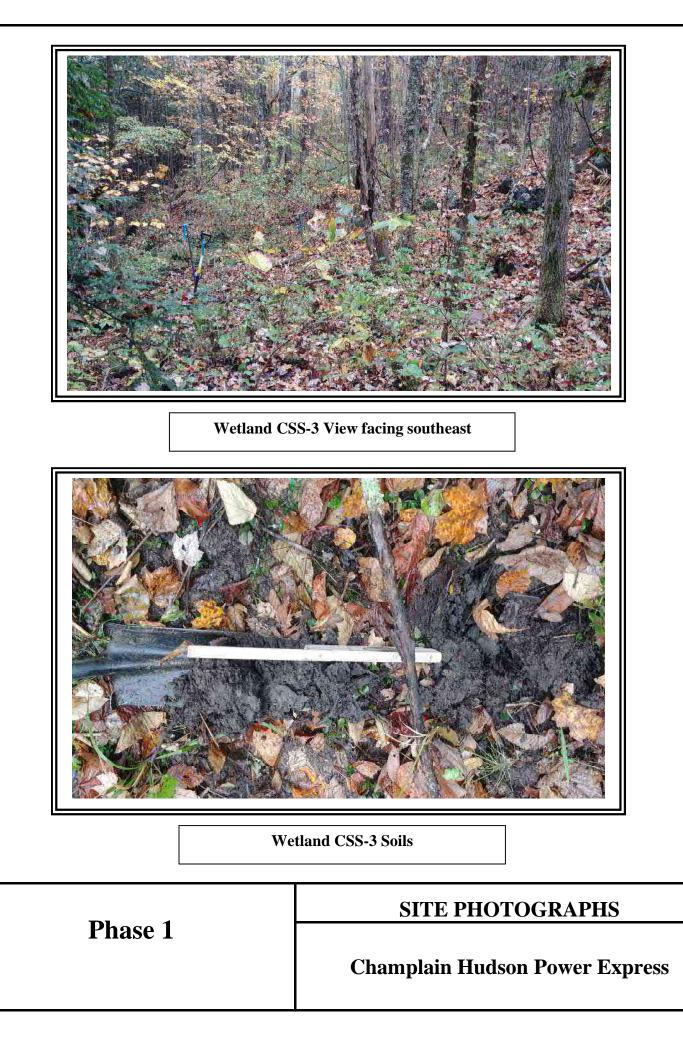


| Project/Site: CHPE | City/County: Dresden / Washington Sampling Date: 10/15/21 | | | | |
|---|---|--|--|--|--|
| Applicant/Owner: TDI | State: NY Sampling Point: wet css-3 | | | | |
| Investigator(s): C. Scrivner, C. Einstein | Section, Township, Range: | | | | |
| | relief (concave, convex, none): None Slope %: 0 | | | | |
| Subregion (LRR or MLRA): LRR R Lat: 43-39-18.30N | Long: 73-26-3.53W Datum: WGS 84 | | | | |
| Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping | | | | | |
| | | | | | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes X No (If no, explain in Remarks.) | | | | |
| Are Vegetation, Soil, or Hydrologysignificantly distur | | | | | |
| Are Vegetation, Soil, or Hydrologynaturally problema | atic? (If needed, explain any answers in Remarks.) | | | | |
| SUMMARY OF FINDINGS – Attach site map showing san | npling point locations, transects, important features, etc. | | | | |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area | | | | |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No | | | | |
| Wetland Hydrology Present? Yes X No | If yes, optional Wetland Site ID: Near Flag CSS-3 | | | | |
| Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Forested Wetland. Edinger classification: Red-maple Hardwood Swamp. | | | | | |
| HYDROLOGY | | | | | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) | | | | |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) | | | | |
| Surface Water (A1)Water-Stained Leaves (| B9) X Drainage Patterns (B10) | | | | |
| High Water Table (A2) Aquatic Fauna (B13) | Moss Trim Lines (B16) | | | | |
| X Saturation (A3) Marl Deposits (B15) | Dry-Season Water Table (C2) | | | | |
| Water Marks (B1) Hydrogen Sulfide Odor (| | | | | |
| X Sediment Deposits (B2) Oxidized Rhizospheres of | | | | | |
| Drift Deposits (B3) Presence of Reduced Ird | | | | | |
| Algal Mat or Crust (B4) Recent Iron Reduction in | | | | | |
| Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar | | | | | |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar Sparsely Vegetated Concave Surface (B8) | rks)Microtopographic Relief (D4) FAC-Neutral Test (D5) | | | | |
| Field Observations: | | | | | |
| Surface Water Present? Yes <u>No X</u> Depth (inches): | | | | | |
| Water Table Present? Yes No X Depth (inclusi). | | | | | |
| Saturation Present? Yes X No Depth (inches): | | | | | |
| (includes capillary fringe) | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre | evious inspections), if available: | | | | |
| | | | | | |
| Remarks: | | | | | |
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Sampling Point: WET CSS-3

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|---------------------------------------|---------------------|----------------------|---------------------|---|
| 1. Ulmus americana | 30 | Yes | FACW | Number of Dominant Species |
| 2. Acer rubrum | 20 | Yes | FAC | That Are OBL, FACW, or FAC:3 (A) |
| 3. Fraxinus americana | 15 | No | FACU | Total Number of Dominant |
| 4. Betula populifolia | 10 | No | FAC | Species Across All Strata: 6 (B) |
| 5. Tsuga canadensis | 5 | No | FACU | Descent of Deminent Species |
| 6. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/E |
| 7. | | | | Prevalence Index worksheet: |
| | 80 | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size:15') | | | | OBL species 0 x 1 = 0 |
| 1. Hamamelis virginiana | 15 | Yes | FACU | FACW species 73 x 2 = 146 |
| 2. Lonicera morrowii | 10 | Yes | FACU | FAC species 40 x 3 = 120 |
| 3. Viburnum lentago | 5 | No | FAC | FACU species 65 x 4 = 260 |
| 4. | | | | UPL species $0 \times 5 = 0$ |
| 5. | | | | Column Totals: 178 (A) 526 (E |
| 6. | | | | Prevalence Index = $B/A = 2.96$ |
| 7. | | | | Hydrophytic Vegetation Indicators: |
| | 30 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% |
| 1. Lysimachia nummularia | 40 | Yes | FACW | X 3 - Prevalence Index is ≤3.0 ¹ |
| 2. Tussilago farfara | 20 | Yes | FACU | 4 - Morphological Adaptations ¹ (Provide supporti |
| 3. Equisetum arvense | 5 | No | FAC | data in Remarks or on a separate sheet) |
| 4. Onoclea sensibilis | 2 | No | FACW | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. Phalaris arundinacea | 1 | No | FACW | |
| 6. | | | | ¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. |
| 7. | | | | Definitions of Vegetation Strata: |
| 8. | | | | - |
| 9. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diamet at breast height (DBH), regardless of height. |
| 10. | | | | |
| 11 | - | | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. |
| 12. | | | | |
| | 68 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | |
| | | | | Woody vines – All woody vines greater than 3.28 ft in height. |
| 1. | | | | |
| | | | | Hydrophytic |
| 2. | | | | |
| 2 3 | | | | Vegetation |
| 2 | | =Total Cover | | |

| Profile Desc | ription: (Describe | to the de | oth needed to docu | ment th | e indica | or or co | nfirm the absence of indic | cators.) |
|---------------------------|----------------------|------------|---------------------|-----------|-------------------|------------------|----------------------------|--|
| Depth | Matrix | | | x Featur | | | | , |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-3 | 10YR 2/1 | 100 | | | | | Muck | |
| 3-10 | 10YR 3/1 | 90 | 10YR 5/1 | 10 | С | М | Mucky Sand | Faint redox concentrations |
| | | | | | | | | |
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| 1 | | · <u> </u> | | | | | | |
| | oncentration, D=Depl | etion, RM | =Reduced Matrix, M | S=Mask | ed Sand | Grains. | | ore Lining, M=Matrix. oblematic Hydric Soils ³ : |
| Hydric Soil I Histosol | | | Polyvalue Belo | | oo (S9) (I | | | 10) (LRR K, L, MLRA 149B) |
| | vipedon (A2) | | MLRA 149B | | Je (30) (L | -ΛΛ Λ, | | Redox (A16) (LRR K, L, R) |
| Black His | | | Thin Dark Surf | , | (LRR R. | MLRA 1 | | Peat or Peat (S3) (LRR K, L, R) |
| | n Sulfide (A4) | | High Chroma S | | | | | low Surface (S8) (LRR K, L) |
| | Layers (A5) | | Loamy Mucky | | | | | rface (S9) (LRR K, L) |
| | Below Dark Surface | e (A11) | Loamy Gleyed | | | , _, | | ese Masses (F12) (LRR K, L, R) |
| | rk Surface (A12) | · · · | Depleted Matri | | , | | | odplain Soils (F19) (MLRA 149B) |
| | lucky Mineral (S1) | | Redox Dark Su | | 6) | | | (TA6) (MLRA 144A, 145, 149B) |
| | leyed Matrix (S4) | | Depleted Dark | | | | Red Parent M | |
| | edox (S5) | | Redox Depres | sions (F8 | 3) | | Very Shallow | Dark Surface (F22) |
| | Matrix (S6) | | Marl (F10) (LR | | | | Other (Explai | n in Remarks) |
| X Dark Sur | face (S7) | | | | | | | |
| | | | | | | | | |
| | hydrophytic vegetati | ion and w | etland hydrology mu | st be pre | esent, unl | ess distu | rbed or problematic. | |
| | ayer (if observed): | | | | | | | |
| Туре: | Roc | | | | | | | |
| Depth (ir | nches): | 10 | | | | | Hydric Soil Present? | Yes X No |
| Remarks: | | | | | | | | |
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| Project/Site: CHPE | | City/County: Dresden / Washington | Sampling Date: 10/15/21 | | | |
|--|---------------------------------------|---|---------------------------|--|--|--|
| Applicant/Owner: TDI | | State: NY | Sampling Point: UPL CSS-3 | | | |
| Investigator(s): C. Scrivner, C. Einstein | | Section, Township, Range: | | | | |
| Landform (hillside, terrace, etc.): Hills | lope Local r | elief (concave, convex, none): Concave | Slope %: 3 | | | |
| Subregion (LRR or MLRA): LRR R | Lat: 43-39-18.58N | Long: 73-26-3.81W | Datum: WGS 84 | | | |
| Soil Map Unit Name: HNC - Hollis-Roc | k outcrop association, gently sloping | and sloping NWI classification | n: NA | | | |
| Are climatic / hydrologic conditions on the | e site typical for this time of year? | Yes X No (If no | , explain in Remarks.) | | | |
| Are Vegetation, Soil, or H | | | | | | |
| Are Vegetation, Soil, or H | | | | | | |
| | | pling point locations, transects, | important features, etc. | | | |
| Hydrophytic Vegetation Present? | Yes No X | Is the Sampled Area | | | | |
| Hydric Soil Present? | Yes No X | within a Wetland? Yes | No_X | | | |
| Wetland Hydrology Present? | Yes No X | If yes, optional Wetland Site ID: | | | | |
| Remarks: (Explain alternative procedur Successional Northern Hardwoods. | res here or in a separate report.) | | | | | |
| HYDROLOGY | | | | | | |
| Wetland Hydrology Indicators: | | Secondary Indicators | (minimum of two required) | | | |
| Primary Indicators (minimum of one is r | equired; check all that apply) | Surface Soil Crac | cks (B6) | | | |
| Surface Water (A1) | Water-Stained Leaves (B | 39) Drainage Pattern | Drainage Patterns (B10) | | | |
| High Water Table (A2) | Aquatic Fauna (B13) | Moss Trim Lines | () | | | |
| Saturation (A3) | Marl Deposits (B15) | Dry-Season Wate | () | | | |
| Water Marks (B1) | Hydrogen Sulfide Odor (0 | C1) Crayfish Burrows | (C8) | | | |
| Sediment Deposits (B2) | Oxidized Rhizospheres o | on Living Roots (C3) Saturation Visible | on Aerial Imagery (C9) | | | |

| (includes capillary fringe) | | | |
|---|-----------------------------|------------------------|-------------------|
| Describe Recorded Data (stream gauge, mon | itoring well, aerial photos | , previous inspections | s), if available: |

Presence of Reduced Iron (C4)

Thin Muck Surface (C7)

No X Depth (inches):

No X Depth (inches): No X Depth (inches):

Other (Explain in Remarks)

Recent Iron Reduction in Tilled Soils (C6)

Remarks:

Drift Deposits (B3)

Iron Deposits (B5)

Field Observations: Surface Water Present?

Water Table Present?

Saturation Present?

Algal Mat or Crust (B4)

Inundation Visible on Aerial Imagery (B7)

Sparsely Vegetated Concave Surface (B8)

Yes

Yes

Yes

Yes ____ No _ X

Stunted or Stressed Plants (D1)

Geomorphic Position (D2)

Microtopographic Relief (D4)

Shallow Aquitard (D3)

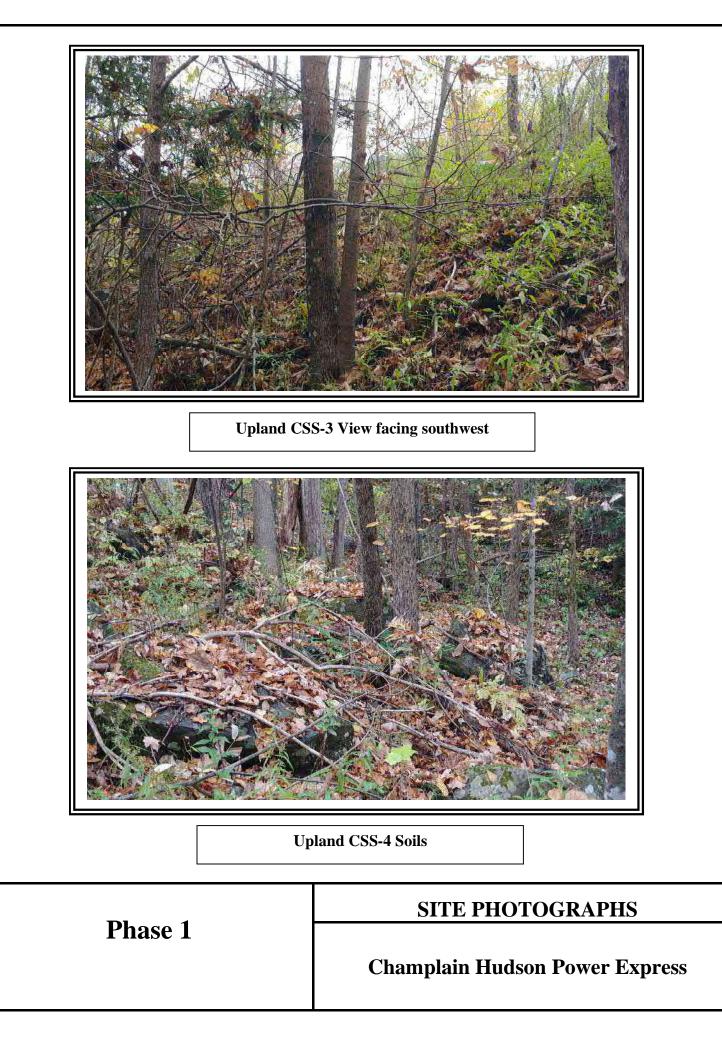
FAC-Neutral Test (D5)

Wetland Hydrology Present?

Sampling Point: UPL CSS-3

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | | | | |
|---|---------------------|----------------------|---------------------|--|--|--|--|--|
| 1. Fraxinus americana | 40 | Yes | FACU | | | | | |
| 2. Betula papyrifera | 10 | No | FACU | Number of Dominant SpeciesThat Are OBL, FACW, or FAC:0(A) | | | | |
| 3. Tsuga canadensis | 10 | No | FACU | | | | | |
| 4. Pinus strobus | 5 | No | FACU | Total Number of DominantSpecies Across All Strata:44 | | | | |
| 5. Ulmus americana | 5 | No | FACW | | | | | |
| 6. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B | | | | |
| 7 | | | | Prevalence Index worksheet: | | | | |
| | 70 | =Total Cover | | Total % Cover of: Multiply by: | | | | |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 0 x 1 = 0 | | | | |
| 1. Hamamelis virginiana | 20 | Yes | FACU | FACW species 10 x 2 = 20 | | | | |
| 2. Viburnum lentago | 5 | No | FAC | FAC species 10 x 3 = 30 | | | | |
| 3Tsuga canadensis | 2 | No | FACU | FACU species 149 x 4 = 596 | | | | |
| 4. | | | | UPL species 0 x 5 = 0 | | | | |
| 5. | | | | Column Totals: 169 (A) 646 (B | | | | |
| 6. | | | | Prevalence Index = B/A = 3.82 | | | | |
| 7. | | | | Hydrophytic Vegetation Indicators: | | | | |
| | 27 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation | | | | |
| Herb Stratum (Plot size: 5') | | - | | 2 - Dominance Test is >50% | | | | |
| 1. Solidago caesia | 40 | Yes | FACU | $3 - Prevalence Index is \leq 3.0^{1}$ | | | | |
| 2. Symphyotrichum ericoides | 10 | No | FACU | 4 - Morphological Adaptations ¹ (Provide support | | | | |
| | 5 | No | FAC | data in Remarks or on a separate sheet) | | | | |
| 3. <u>Equisetum arvense</u> 4. Lonicera morrowii | 5 | No | FACU | Problematic Hydrophytic Vegetation ¹ (Explain) | | | | |
| 5. Onoclea sensibilis | 5 | No | FACW | | | | | |
| | 2 | | FACU | ¹ Indicators of hydric soil and wetland hydrology must | | | | |
| 6. <u>Acer pensylvanicum</u> | 2 | No | FACU | present, unless disturbed or problematic. | | | | |
| 7 | | | | Definitions of Vegetation Strata: | | | | |
| 8 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diamet | | | | |
| 9 | | · | | at breast height (DBH), regardless of height. | | | | |
| 10 | | | | Sapling/shrub – Woody plants less than 3 in. DBH | | | | |
| 11 | | · | | and greater than or equal to 3.28 ft (1 m) tall. | | | | |
| 12 | | | | Herb – All herbaceous (non-woody) plants, regardles | | | | |
| | 67 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. | | | | |
| Woody Vine Stratum (Plot size: 30') | | | | Woody vines – All woody vines greater than 3.28 ft in | | | | |
| 1. Vitis aestivalis | 5 | Yes | FACU | height. | | | | |
| 2 | | . <u> </u> | | Hydrophytic | | | | |
| 3 | | | | Vegetation | | | | |
| 4 | | <u> </u> | | Present? Yes <u>No X</u> | | | | |
| | 5 | =Total Cover | | | | | | |

| Depth | Matrix | o the de | | x Featur | | | nfirm the absence of indicate | 015.) | |
|---------------------------|---------------------|-----------|---|-----------------|--------------------|------------------|--------------------------------|-------------------------|------------------------|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remark | s |
| <u> </u> | | | <u>, </u> | | | | | | |
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| ¹ Type: C=Cond | centration, D=Deple | etion, RM | I=Reduced Matrix, M | S=Mask | ed Sand | Grains. | ² Location: PL=Pore | Lining, M=Matr | ix. |
| Hydric Soil Ind | | , | , | | | | Indicators for Prob | | |
| Histosol (A | .1) | | Polyvalue Belo | w Surfa | ce (S8) (L | .RR R, | 2 cm Muck (A10 |) (LRR K, L, M | LRA 149B) |
| Histic Epip | edon (A2) | | MLRA 149B |) | | | Coast Prairie Re | edox (A16) (LRI | R K, L, R) |
| Black Histi | c (A3) | | Thin Dark Surfa | ace (S9) | (LRR R, | MLRA 1 | 49B) 5 cm Mucky Pea | at or Peat (S3) (| LRR K, L, R) |
| Hydrogen | Sulfide (A4) | | High Chroma S | Sands (S | 611) (LRF | k K, L) | Polyvalue Below | Surface (S8) (| LRR K, L) |
| Stratified L | ayers (A5) | | Loamy Mucky I | Mineral | (F1) (LRF | R K, L) | Thin Dark Surface | ce (S9) (LRR K | , L) |
| Depleted E | elow Dark Surface | (A11) | Loamy Gleyed | Matrix (| F2) | | Iron-Manganese | Masses (F12) | (LRR K, L, R) |
| Thick Dark | Surface (A12) | | Depleted Matrix | x (F3) | | | Piedmont Flood | olain Soils (F19 |) (MLRA 149B) |
| Sandy Muc | ky Mineral (S1) | | Redox Dark Su | urface (F | 6) | | Mesic Spodic (T | A6) (MLRA 14 4 | 1A, 145, 149B) |
| | yed Matrix (S4) | | Depleted Dark | | | | Red Parent Mate | | |
| Sandy Rec | | | Redox Depress | | 8) | | Very Shallow Da | | 2) |
| Stripped M | | | Marl (F10) (LR | R K, L) | | | Other (Explain in | n Remarks) | |
| Dark Surfa | ce (S7) | | | | | | | | |
| 3 | | | | | | | | | |
| | | on and w | etland hydrology mus | st be pre | esent, unl | ess distu | rbed or problematic. | | |
| | yer (if observed): | | | | | | | | |
| | Rock / B | | | | | | | | |
| Depth (incl | nes): | 0 | | | | | Hydric Soil Present? | Yes | No <u>X</u> |
| Remarks: | | | | | | | | | |
| | | | : | | | | | | |
| NO SOIIS Laken | due to rock and bo | | side. | | | | | | |
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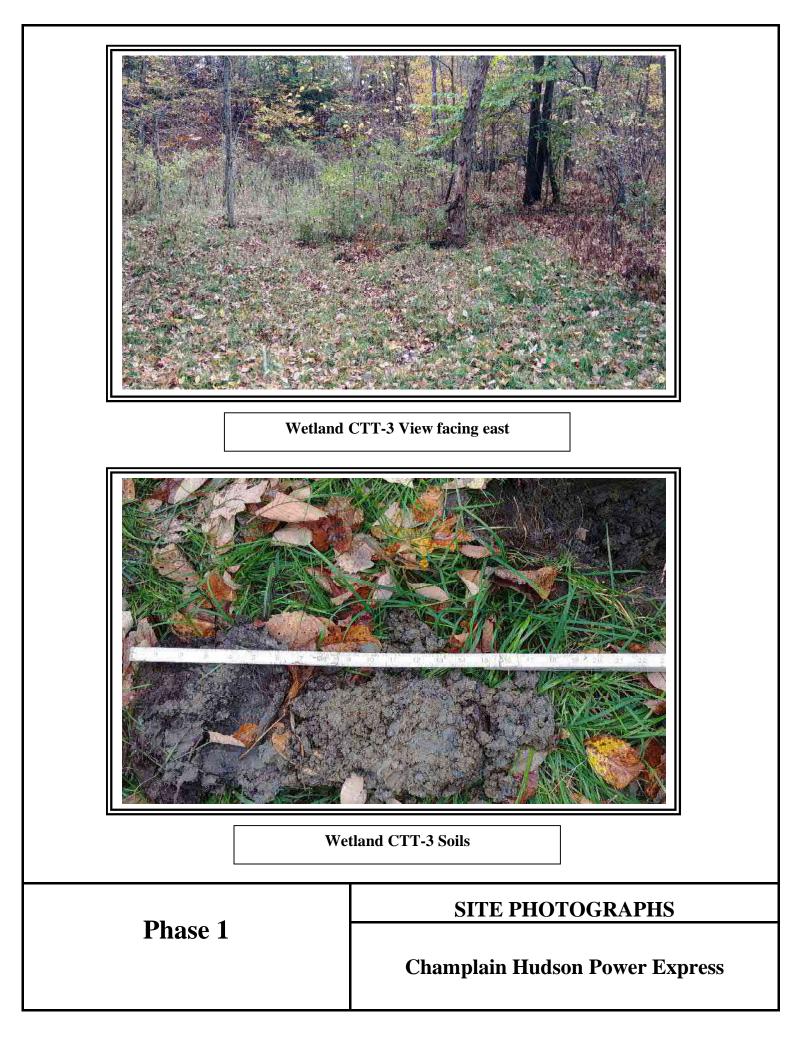


| Project/Site: CHPE | City/County: Dresden / Washington Sampling Date: 10/15/21 |
|---|---|
| Applicant/Owner: TDI | State: NY Sampling Point: WET CTT-3 |
| Investigator(s): C. Scrivner, C. Einstein | Section, Township, Range: |
| | lief (concave, convex, none): Concave Slope %: 0 |
| Subregion (LRR or MLRA): LRR R Lat: 43-39-10.96N | Long: 73-26-10.25W Datum: WGS 84 |
| · · · · <u> </u> | |
| Soil Map Unit Name: <u>HLE - Hollis-Charlton association, moderately steep and</u> | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes X No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly disturbe | |
| Are Vegetation, Soil, or Hydrologynaturally problemation | c? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing samp | bling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No |
| Wetland Hydrology Present? Yes X No | If yes, optional Wetland Site ID: Near Flag CTT-3 |
| Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh. Edinger classification: Sedge Meadow. | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| X Surface Water (A1) Water-Stained Leaves (B9 | Drainage Patterns (B10) |
| X High Water Table (A2) Aquatic Fauna (B13) | Moss Trim Lines (B16) |
| X Saturation (A3) Marl Deposits (B15) | Dry-Season Water Table (C2) |
| Water Marks (B1) Hydrogen Sulfide Odor (C | 1) Crayfish Burrows (C8) |
| Sediment Deposits (B2) Oxidized Rhizospheres on | Living Roots (C3) Saturation Visible on Aerial Imagery (C9) |
| Drift Deposits (B3)Presence of Reduced Iron | |
| Algal Mat or Crust (B4)Recent Iron Reduction in T | |
| Iron Deposits (B5) Thin Muck Surface (C7) | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks | |
| Sparsely Vegetated Concave Surface (B8) | X FAC-Neutral Test (D5) |
| Field Observations: | |
| Surface Water Present? Yes X No Depth (inches): | |
| Water Table Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): | 12 0 Wetland Underlags Present 2 Vers V No. |
| Saturation Present? Yes X No Depth (inches): | 0 Wetland Hydrology Present? Yes X No |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo | ous inspections), if available: |
| Describe Recorded Data (Stream gauge, monitoring weil, aenai photos, previ | |
| Remarks: | |
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Sampling Point: WET CTT-3

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | |
|--|---------------------|----------------------|---------------------|--|-------|
| 1. Ulmus americana | 15 | Yes | FACW | Number of Deminent Creation | |
| 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC: 4 | (A) |
| 3. | | | | Total Number of Dominant | |
| 4 | | | | | (B) |
| 5 | | | | Percent of Dominant Species | |
| 6 | | | | | A/B |
| 7 | | | | Prevalence Index worksheet: | |
| | 15 | =Total Cover | | Total % Cover of: Multiply by: | _ |
| Sapling/Shrub Stratum (Plot size: 15') |) | | | OBL species 80 x 1 = 80 | |
| 1. Viburnum lentago | 15 | Yes | FAC | FACW species <u>35</u> x 2 = <u>70</u> | _ |
| 2. Lonicera morrowii | 10 | Yes | FACU | FAC species <u>15</u> x 3 = <u>45</u> | _ |
| 3. Rubus occidentalis | 8 | Yes | UPL | FACU species x 4 =60 | _ |
| 4. Ulmus americana | 5 | No | FACW | UPL species <u>8</u> x 5 = <u>40</u> | _ |
| 5 | | | | Column Totals: 153 (A) 295 | (B |
| 6. | | | | Prevalence Index = B/A = 1.93 | |
| 7. | | | | Hydrophytic Vegetation Indicators: | _ |
| | 38 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation | |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% | |
| 1. Leersia oryzoides | 40 | Yes | OBL | X 3 - Prevalence Index is $\leq 3.0^{1}$ | |
| 2. Carex lurida | 35 | Yes | OBL | 4 - Morphological Adaptations ¹ (Provide suppo | ortin |
| 3. Onoclea sensibilis | 5 | No | FACW | data in Remarks or on a separate sheet) | |
| 4. Lythrum salicaria | 5 | No | OBL | Problematic Hydrophytic Vegetation ¹ (Explain |) |
| 5. Symphyotrichum novae-angliae | 5 | No | FACW | ¹ Indicators of hydric soil and wetland hydrology mu | uet h |
| 6. Ulmus americana | 5 | No | FACW | present, unless disturbed or problematic. | u31 L |
| 7. Lonicera morrowii | 5 | No | FACU | Definitions of Vegetation Strata: | |
| 8. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diar | mote |
| 9 | | | | at breast height (DBH), regardless of height. | neit |
| 10 | | | | Sapling/shrub – Woody plants less than 3 in. DBI | н |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. | |
| 12 | | | | Herb – All herbaceous (non-woody) plants, regard | |
| | 100 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. | 1030 |
| Woody Vine Stratum (Plot size: 30' | 1 | | | Woody vines – All woody vines greater than 3.28 | ft in |
| 1 | | | | height. | 11 11 |
| | | | | | |
| | | | | Hydrophytic Vegetation | |
| 0 | | | | | |
| 2 | | | | Present? Yes X No | |

| Profile Desc | ription: (Describe t | o the dep | oth needed to docu | ment th | e indica | or or co | nfirm the absence of ir | ndicators.) | | | |
|-----------------------------|-----------------------|-----------|----------------------|---------------|--------------------------------|--------------------------------|----------------------------|--|--|--|--|
| Depth Matrix Redox Features | | | | | | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | | | |
| 0-4 | 10YR 2/1 | 90 | 10YR 3/6 | 10 | С | PL | Loamy/Clayey | Prominent redox concentrations | | | |
| 4-11 | 10YR 5/2 | 70 | 10YR 4/6 | М | Sandy | | | | | | |
| 11-21 | N 4/ | 70 | 2.5YR 3/4 | Sandy | Prominent redox concentrations | | | | | | |
| | | | 2.5YR 3/4 | М | | Prominent redox concentrations | | | | | |
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| | | | | | | | | | | | |
| ¹ Type: C=Cc | oncentration, D=Deple | etion RM | =Reduced Matrix M | S=Mask | ed Sand | Grains | ² Location: PL | =Pore Lining, M=Matrix. | | | |
| Hydric Soil I | | | | <u>e-maon</u> | ou ounu | oranio. | | r Problematic Hydric Soils ³ : | | | |
| Histosol | (A1) | | Polyvalue Belo | w Surfac | e (S8) (I | .RR R, | 2 cm Mucl | k (A10) (LRR K, L, MLRA 149B) | | | |
| Histic Ep | ipedon (A2) | | MLRA 149B |) | | | ? Coast Pra | iirie Redox (A16) (LRR K, L, R) | | | |
| Black His | | | Thin Dark Surfa | ace (S9) | (LRR R | MLRA 1 | | ky Peat or Peat (S3) (LRR K, L, R) | | | |
| | n Sulfide (A4) | | High Chroma S | | | | | Below Surface (S8) (LRR K, L) | | | |
| | Layers (A5) | | Loamy Mucky I | | | | | Surface (S9) (LRR K, L) | | | |
| | Below Dark Surface | (11) | Loamy Gleyed | | | · · · , | | ganese Masses (F12) (LRR K, L, R) | | | |
| | | (ATT) | | | -2) | | | | | | |
| | rk Surface (A12) | | Depleted Matri | | | | | Floodplain Soils (F19) (MLRA 149B) | | | |
| Sandy M | ucky Mineral (S1) | | X Redox Dark Su | urface (F | 6) | | Mesic Spo | odic (TA6) (MLRA 144A, 145, 149B) | | | |
| Sandy G | leyed Matrix (S4) | | Depleted Dark | Surface | (F7) | | Red Parer | nt Material (F21) | | | |
| X Sandy R | edox (S5) | | ? Redox Depress | sions (F8 | 3) | | Very Shall | low Dark Surface (F22) | | | |
| Stripped | Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other (Explain in Remarks) | | | | |
| | face (S7) | | 、 /、 | . , | | | 、 、 | · | | | |
| ³ Indicators of | hydrophytic vegetati | on and w | etland hydrology mus | st he nre | sent unl | ess distu | rbed or problematic | | | | |
| | ayer (if observed): | | cliana nyarology ma | | Sont, an | 000 01010 | | | | | |
| Type: | , | | | | | | | | | | |
| Depth (in | nches): | | | | | | Hydric Soil Present | ? Yes <u>X</u> No | | | |
| Remarks: | | | | | | | | | | | |
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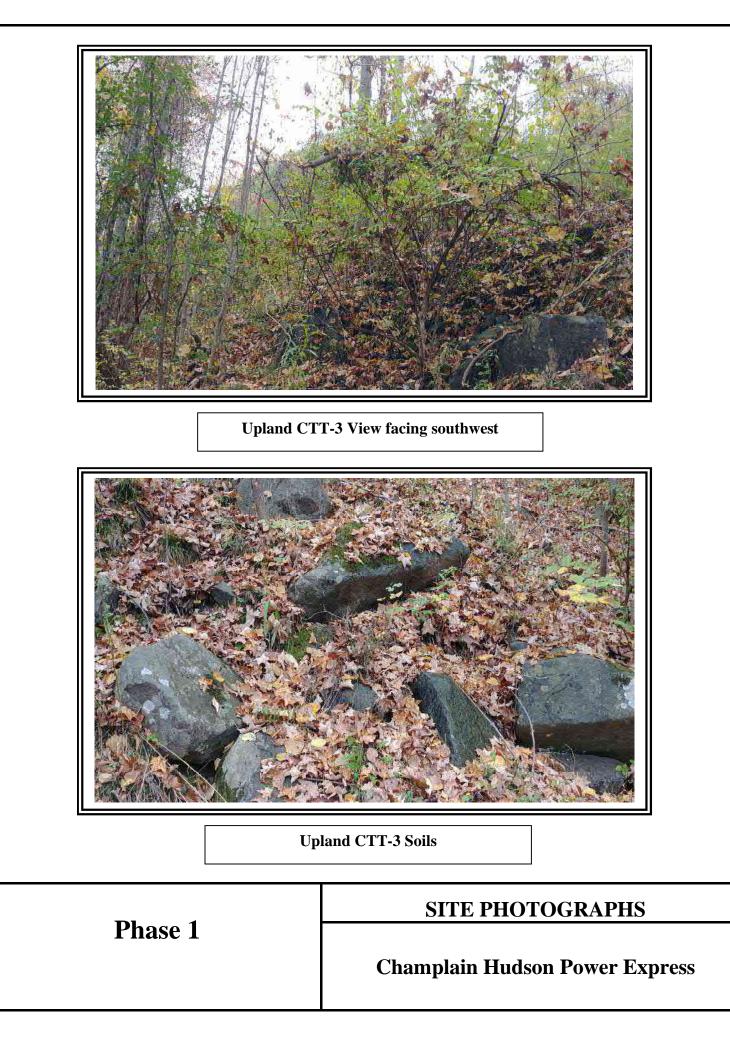
| Project/Site: CHPE | City | //County: Dresden / Washington | Sampling Date: 10/15/21 |
|--|-----------------------------------|---|---------------------------|
| Applicant/Owner: TDI | | State: NY | Sampling Point: UPL CTT-3 |
| Investigator(s): C. Scrivner, C. Einstein | | Section, Township, Range: | |
| Landform (hillside, terrace, etc.): Hillslope | Local relief | (concave, convex, none): <u>Convex</u> | Slope %: 10 |
| Subregion (LRR or MLRA): LRR R | Lat: 43-39-10.98N | Long: 73-26-10.95W | Datum: WGS 84 |
| Soil Map Unit Name: HLE - Hollis-Charlton as | sociation, moderately steep and s | teep NWI classification: | NA |
| Are climatic / hydrologic conditions on the site ty | pical for this time of year? | Yes <u>X</u> No (If no, e | explain in Remarks.) |
| Are Vegetation, Soil, or Hydrold | gy significantly disturbed? | Are "Normal Circumstances" prese | ent? Yes X No |
| Are Vegetation, Soil, or Hydrold | gy naturally problematic? | (If needed, explain any answers in | Remarks.) |
| SUMMARY OF FINDINGS – Attach s | ite map showing samplir | ng point locations, transects, in | nportant features, etc. |
| 5 1 5 6 | | s the Sampled Area | |
| | | vithin a Wetland? Yes yes, optional Wetland Site ID: | No <u>X</u> |
| Remarks: (Explain alternative procedures here Successional Northern Hardwoods. | er in a separate report.) | | |
| HYDROLOGY | | | |
| Wetland Hydrology Indicators: | | Secondary Indicators (n | ninimum of two required) |
| Primary Indicators (minimum of one is required | ; check all that apply) | Surface Soil Cracks | s (B6) |
| Surface Water (A1) | Water-Stained Leaves (B9) | Drainage Patterns | (B10) |
| High Water Table (A2) | Aquatic Fauna (B13) | Moss Trim Lines (B | 516) |
| Saturation (A3) | Marl Deposits (B15) | Dry-Season Water | Table (C2) |

| Saturation (A3) | - | Marl De | eposits (B15) | | Dry-Season Water Ta | able (C2) | | |
|-----------------------------|--------------------|----------------|--------------------------------|---------------|-----------------------|----------------|--------|---|
| Water Marks (B1) | _ | Hydrog | en Sulfide Odor (C1) | | Crayfish Burrows (C8 | 3) | | |
| Sediment Deposits (B2) | - | Oxidize | d Rhizospheres on Living Ro | oots (C3) | Saturation Visible on | Aerial Imagery | y (C9) | |
| Drift Deposits (B3) | - | Presen | ce of Reduced Iron (C4) | | Stunted or Stressed F | Plants (D1) | | |
| Algal Mat or Crust (B4) | - | Recent | Iron Reduction in Tilled Soils | s (C6) | Geomorphic Position | (D2) | | |
| Iron Deposits (B5) | - | Thin Mu | uck Surface (C7) | | Shallow Aquitard (D3 | 5) | | |
| Inundation Visible on A | erial Imagery (B7) | Other (I | Explain in Remarks) | | Microtopographic Rel | | | |
| Sparsely Vegetated Cor | ncave Surface (B8) |) | | | FAC-Neutral Test (D5 | 5) | | |
| Field Observations: | | | | | | | | |
| Surface Water Present? | Yes | No <u>X</u> | Depth (inches): | | | | | |
| Water Table Present? | Yes | No X | Depth (inches): | | | | | |
| Saturation Present? | Yes | No X | Depth (inches): | Wetlan | d Hydrology Present? | Yes | No 🔿 | Х |
| (includes capillary fringe) | | | | | | | | |
| Describe Recorded Data (st | ream gauge, monit | toring well, a | aerial photos, previous inspe | ctions), if a | vailable: | | | |
| | | | | | | | | |
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| Remarks: | | | | | | | | |
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Sampling Point: UPL CTT-3

| Tree Stratum (Plot size:30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|---|---------------------|----------------------|---------------------|---|
| 1. Fraxinus americana | 45 | Yes | FACU | Number of Dominant Species |
| 2. Tilia americana | 25 | Yes | FACU | Number of Dominant SpeciesThat Are OBL, FACW, or FAC:0(A) |
| 3. Carya ovata | 5 | No | FACU | Total Number of Dominant |
| 4 | | | | Species Across All Strata: 6 (B) |
| 5. 6. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B |
| 7. | | | | Prevalence Index worksheet: |
| | 75 | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15' | | | | $\frac{1}{\text{OBL species}} 0 \qquad \text{x 1} = 0$ |
| 1. Lonicera morrowii | 30 | Yes | FACU | FACW species $0 	 x^2 = 0$ |
| 2. Hamamelis virginiana | 10 | No | FACU | FAC species 13 $x 3 = 39$ |
| 3. Rhamnus cathartica | 5 | No | FAC | FACU species 180 $x 4 = 720$ |
| | | | | · <u> </u> |
| 4. Pinus strobus | 5 | <u>No</u> | FACU | UPL species 15 $x 5 = 75$ |
| 5. <u>Rhus typhina</u> 6. | 5 | No | UPL | Column Totals: 208 (A) 834 (E Prevalence Index = $B/A =$ 4.01 |
| 7. | | | | Hydrophytic Vegetation Indicators: |
| | 55 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | - 55 | | | 2 - Dominance Test is >50% |
| | 00 | Mar | FAOL | |
| 1. Solidago caesia | 30 | Yes | FACU | 3 - Prevalence Index is ≤3.0 ¹ |
| 2. Symphyotrichum ericoides | 10 | Yes | FACU | 4 - Morphological Adaptations ¹ (Provide supportindata in Remarks or on a separate sheet) |
| 3. Solidago canadensis | 10 | Yes | FACU | |
| 4. Equisetum arvense | 8 | No | FAC | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. Pinus strobus | 5 | No | FACU | ¹ Indicators of hydric soil and wetland hydrology must |
| 6. Rubus occidentalis | 5 | No | UPL | present, unless disturbed or problematic. |
| 7. Fraxinus americana | 5 | No | FACU | Definitions of Vegetation Strata: |
| 8. <u>Symphyotrichum lowrieanum</u> 9. | 5 | No | UPL | Tree – Woody plants 3 in. (7.6 cm) or more in diamet at breast height (DBH), regardless of height. |
| 10 | | | | |
| 10 11 | | | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | | | | Herb – All herbaceous (non-woody) plants, regardles |
| | 78 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30' |) | | | Woody vince All woody vince greater than 2.29 ft in |
| 1 | | | | Woody vines – All woody vines greater than 3.28 ft ir height. |
| 2. | | | | |
| | | | | Hydrophytic |
| 3. | | | | Vegetation Present? Yes No X |
| 4 | | | | |
| 3 4 | | =Total Cover | | |

| Depth | Matrix | the de | - | ment tr x Featur | | or or co | nfirm the absence of indicate | ors.) | |
|----------------|----------------------|-----------|------------------------|---------------------|--------------------|------------------|--------------------------------|------------|-------------------------|
| (inches) | Color (moist) | % | Color (moist) | × i catul % | Type ¹ | Loc ² | Texture | Rema | irks |
| (1101100) | | | | 70 | 190 | 200 | Toxidio | | |
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| | | etion, RN | I=Reduced Matrix, M | S=Mask | ed Sand | Grains. | ² Location: PL=Pore | | |
| Hydric Soil I | | | | | | | Indicators for Prob | - | |
| Histosol (| . , | | Polyvalue Belo | | ce (S8) (L | .RR R, | 2 cm Muck (A10 | | |
| | ipedon (A2) | | MLRA 149B | , | | | Coast Prairie Re | . , . | |
| Black His | | | Thin Dark Surf | | | | | | |
| | n Sulfide (A4) | | High Chroma S | | | | Polyvalue Below | | |
| | Layers (A5) | | Loamy Mucky I | | | Κ, L) | Thin Dark Surfa | | |
| | Below Dark Surface | e (A11) | Loamy Gleyed | | F2) | | Iron-Manganese | | |
| | rk Surface (A12) | | Depleted Matri | | | | | | 9) (MLRA 149B) |
| | ucky Mineral (S1) | | Redox Dark Su | | | | | | 44A, 145, 149B) |
| | eyed Matrix (S4) | | Depleted Dark | | | | Red Parent Mate | | |
| | edox (S5) | | Redox Depress | | 8) | | Very Shallow Da | | 22) |
| | Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other (Explain in | n Remarks) | |
| Dark Sur | face (S7) | | | | | | | | |
| 2 | | | | | | | | | |
| | | ion and w | etland hydrology mus | st be pre | esent, unl | ess distu | rbed or problematic. | | |
| | ayer (if observed): | | | | | | | | |
| - | Rock / B | | | | | | | | |
| Depth (in | ches): | 0 | | | | | Hydric Soil Present? | Yes | <u>No X</u> |
| Remarks: | | | | | | | | | |
| | | | | | | | | | |
| No soils taker | n due to rock and bo | ulder out | cropping. | | | | | | |
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| Project/Site: CHPE | City/County: Dresden / Washington Sampling Date: 10/15/21 |
|--|--|
| Applicant/Owner: TDI | State: NY Sampling Point: WET CUU-4 |
| Investigator(s): C. Scrivner, C. Einstein | Section, Township, Range: |
| | relief (concave, convex, none): Concave Slope %: 2 |
| Subregion (LRR or MLRA): LRR R Lat: 43-39-9.42N | Long: 73-26-10.50W Datum: WGS 84 |
| | |
| Soil Map Unit Name: <u>HLE - Hollis-Charlton association, moderately steep a</u> | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes X No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly disturb | |
| Are Vegetation, Soil, or Hydrologynaturally problema | atic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sam | pling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No |
| Wetland Hydrology Present? Yes X No | If yes, optional Wetland Site ID: Near Flag CUU-4 |
| Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Forested Wetland. Edinger classification: Red-maple Hardwood | Swamp. |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1)Water-Stained Leaves (E | B9) X Drainage Patterns (B10) |
| X High Water Table (A2) Aquatic Fauna (B13) | Moss Trim Lines (B16) |
| X Saturation (A3) Marl Deposits (B15) | Dry-Season Water Table (C2) |
| Water Marks (B1) Hydrogen Sulfide Odor (| |
| Sediment Deposits (B2)Oxidized Rhizospheres c | |
| Drift Deposits (B3) Presence of Reduced Irc Algal Mat or Crust (B4) Recent Iron Reduction in | |
| Iron Deposits (B5) Thin Muck Surface (C7) | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark | |
| Sparsely Vegetated Concave Surface (B8) | FAC-Neutral Test (D5) |
| Field Observations: | |
| Surface Water Present? Yes No X Depth (inches): | |
| Water Table Present? Yes X No Depth (inches): | |
| Saturation Present? Yes X No Depth (inches): | 0 Wetland Hydrology Present? Yes X No |
| (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre | vious inspections), if available: |
| | |
| Remarks: | |
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Sampling Point: WET CUU-4

| Image: | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|---|---------------------|----------------------|---------------------|--|
| . Acer rubrum | 80 | Yes | FAC | Number of Dominant Species |
| 2. Fraxinus americana | 15 | No | FACU | That Are OBL, FACW, or FAC:3 (A) |
| 3. Quercus rubra | 5 | No | FACU | Total Number of Dominant Species Across All Strata: 5 (B) |
| 5. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B |
| ······ | | | | Prevalence Index worksheet: |
| | 100 | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15' |) | | | OBL species 40 x 1 = 40 |
| Lonicera morrowii | 25 | Yes | FACU | FACW species $45 \times 2 = 90$ |
| 2. Hamamelis virginiana | 15 | Yes | FACU | FAC species 85 x 3 = 255 |
| 3. Ulmus americana | 10 | No | FACW | FACU species 72 x 4 = 288 |
| I. Viburnum acerifolium | 10 | No | UPL | UPL species 15 x 5 = 75 |
| 5. Fagus grandifolia | 5 | No | FACU | Column Totals: 257 (A) 748 (B |
| 5. Tsuga canadensis | 5 | No | FACU | Prevalence Index = $B/A = 2.91$ |
| <u></u> | | | | Hydrophytic Vegetation Indicators: |
| | 70 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% |
| . Osmunda spectabilis | 40 | Yes | OBL | X 3 - Prevalence Index is $\leq 3.0^{1}$ |
| 2. Osmundastrum cinnamomeum | 25 | Yes | FACW | 4 - Morphological Adaptations ¹ (Provide supportin |
| 3. Onoclea sensibilis | 10 | No | FACW | data in Remarks or on a separate sheet) |
| I. Equisetum arvense | 5 | No | FAC | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. Viburnum acerifolium | 5 | No | UPL | |
| 5. Pinus strobus | 2 | No | FACU | ¹ Indicators of hydric soil and wetland hydrology must l present, unless disturbed or problematic. |
| 7 | | | | Definitions of Vegetation Strata: |
| 3). | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 10 | | | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. |
| | | | | |
| 2 | 87 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| <u>Voody Vine Stratum</u> (Plot size: <u>30'</u> |) | | | Woody vines – All woody vines greater than 3.28 ft ir height. |
| | | | | |
|) | | | | Hydrophytic |
| 2 | | | | Vegetation |
| 3. | | | | |
| | | =Total Cover | | Present? Yes X No |

| Profile Desc | cription: (Describe | to the dep | th needed to docu | ment th | e indica | or or co | nfirm the absence of indicat | ors.) |
|--------------|--|------------|---------------------|-----------|--------------------|------------------|--------------------------------|-------------------------------------|
| Depth | Matrix | | | x Featur | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-6 | 10YR 2/1 | 100 | | | | | Muck | |
| 6-13 | 10YR 3/1 | 100 | | | | | Sandy | |
| | | | | | | | | |
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| | oncentration, D=Depl | letion RM- | -Reduced Matrix M | S-Mask | bac ba | Grains | ² Location: PL=Pore | Lining M-Matrix |
| Hydric Soil | · · · · | | | 0-IVIASK | eu Ganu | Grains. | | lematic Hydric Soils ³ : |
| Histosol | | | Polyvalue Belo | w Surfac | ce (S8) (L | .RR R, | |)) (LRR K, L, MLRA 149B) |
| Histic Ep | oipedon (A2) | | MLRA 149B |) | | | Coast Prairie Re | edox (A16) (LRR K, L, R) |
| Black Hi | stic (A3) | | Thin Dark Surf | ace (S9) | (LRR R, | MLRA 1 | 49B) 5 cm Mucky Pea | at or Peat (S3) (LRR K, L, R) |
| Hydroge | n Sulfide (A4) | | High Chroma S | Sands (S | 511) (LRF | R Κ, L) | Polyvalue Below | v Surface (S8) (LRR K, L) |
| Stratified | d Layers (A5) | | Loamy Mucky | Mineral (| (F1) (LRF | R K, L) | Thin Dark Surfa | ce (S9) (LRR K, L) |
| Depleted | d Below Dark Surface | e (A11) | Loamy Gleyed | Matrix (| F2) | | Iron-Manganese | e Masses (F12) (LRR K, L, R) |
| Thick Da | ark Surface (A12) | | Depleted Matri | x (F3) | | | Piedmont Flood | plain Soils (F19) (MLRA 149B) |
| Sandy M | lucky Mineral (S1) | | Redox Dark Su | urface (F | 6) | | Mesic Spodic (T | A6) (MLRA 144A, 145, 149B) |
| Sandy G | leyed Matrix (S4) | | Depleted Dark | Surface | (F7) | | Red Parent Mat | erial (F21) |
| Sandy R | edox (S5) | | Redox Depres | sions (Fa | 3) | | Very Shallow Da | ark Surface (F22) |
| Stripped | Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other (Explain in | n Remarks) |
| X Dark Su | rface (S7) | | | | | | | |
| 31. 1 | ri istan | | d | | | P.4 | 1 | |
| | f hydrophytic vegetati Layer (if observed): | | etiand hydrology mu | st be pre | esent, uni | ess distu | rbed of problematic. | |
| Type: | Roc | | | | | | | |
| Depth (ir | nches): | 13 | | | | | Hydric Soil Present? | Yes X No |
| Remarks: | | | | | | | | ···· <u>···</u> ···· <u>·</u> ··· |
| Remarks: | | | | | | | | |
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| Project/Site: CHPE | | City/C | county: Dresden / Washington | Sampling Date: 10/15/21 |
|---|---------------------------------|--------------------------|---------------------------------------|---------------------------|
| Applicant/Owner: TDI | | | State: NY | Sampling Point: UPL CUU-4 |
| Investigator(s): C. Scrivner, C. | Einstein | | Section, Township, Range: | |
| Landform (hillside, terrace, etc.): | : Hillslope | Local relief (c | concave, convex, none): <u>Convex</u> | Slope %: 2 |
| Subregion (LRR or MLRA): LR | RR R Lat: _/ | 43-39-9.53N | Long: 73-26-11.84W | Datum: WGS 84 |
| Soil Map Unit Name: HLE - Ho | ollis-Charlton association, m | oderately steep and stee | epNWI classification | n: <u>NA</u> |
| Are climatic / hydrologic conditio | ons on the site typical for thi | s time of year? | Yes X No (If no, | , explain in Remarks.) |
| Are Vegetation, Soil | , or Hydrologys | ignificantly disturbed? | Are "Normal Circumstances" pre- | sent? Yes X No |
| Are Vegetation, Soil | , or Hydrologyn | aturally problematic? | (If needed, explain any answers | in Remarks.) |
| SUMMARY OF FINDING | S – Attach site map | showing sampling | point locations, transects, i | important features, etc. |
| Hydrophytic Vegetation Presen | | | ne Sampled Area | |
| Hydric Soil Present? | Yes | No X with | nin a Wetland? Yes | No <u>X</u> |
| Wetland Hydrology Present? | Yes | No X If ye | es, optional Wetland Site ID: | |
| Remarks: (Explain alternative Successional Northern Hardwo | • | arate report.) | | |
| HYDROLOGY | | | | |
| Wetland Hydrology Indicators | s: | | Secondary Indicators | (minimum of two required) |
| Primary Indicators (minimum of | f one is required; check all t | hat apply) | Surface Soil Crac | ks (B6) |
| Surface Water (A1) | Water-S | Stained Leaves (B9) | Drainage Patterns | s (B10) |
| High Water Table (A2) | Aquatic | : Fauna (B13) | Moss Trim Lines (| (B16) |

| High Water Table (A2) | | | Aquatic | Fauna (B13) | _ | Moss Trim Lines (B16) | | | | |
|-------------------------------------|--------------------|---------|-----------|-------------------------------|-----------------|-----------------------------|--------------|---------|--|--|
| Saturation (A3) Marl Deposits (B15) | | | | | | Dry-Season Water Table (C2) | | | | |
| Water Marks (B1) | | | Hydroge | en Sulfide Odor (C1) | | Crayfish Burrows (C8) |) | | | |
| Sediment Deposits (B2 |) | | Oxidize | d Rhizospheres on Living Ro | oots (C3) | Saturation Visible on | Aerial Image | ry (C9) | | |
| Drift Deposits (B3) | | | Presend | ce of Reduced Iron (C4) | | Stunted or Stressed P | Plants (D1) | | | |
| Algal Mat or Crust (B4) | | | Recent | Iron Reduction in Tilled Soil | s (C6) | Geomorphic Position | (D2) | | | |
| Iron Deposits (B5) | | | Thin Mu | ick Surface (C7) | | Shallow Aquitard (D3) | 1 | | | |
| Inundation Visible on A | erial Imagery (B7) |) | Other (E | Explain in Remarks) | | Microtopographic Reli | ief (D4) | | | |
| Sparsely Vegetated Co | ncave Surface (B | 8) | | | | FAC-Neutral Test (D5 |) | | | |
| Field Observations: | | | | | | | | | | |
| Surface Water Present? | Yes | No | Х | Depth (inches): | | | | | | |
| Water Table Present? | Yes | No | Х | Depth (inches): | | | | | | |
| Saturation Present? | Yes | No | Х | Depth (inches): | Wetland | Hydrology Present? | Yes | No X | | |
| (includes capillary fringe) | | - | | | | | | | | |
| Describe Recorded Data (s | tream gauge, moi | nitorin | g well, a | aerial photos, previous inspe | ections), if av | vailable: | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Remarks: | | | | | | | | | | |
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Sampling Point: UPL CUU-4

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|---|---------------------|----------------------|---------------------|---|
| 1. Fraxinus americana | 45 | Yes | FACU | Number of Dominant Crossics |
| 2. Acer saccharum | 20 | Yes | FACU | Number of Dominant SpeciesThat Are OBL, FACW, or FAC:0(A) |
| Pinus strobus 4. | 10 | No | FACU | Total Number of Dominant Species Across All Strata: 7 (B) |
| 5. | | · | | |
| 6. | | · | | Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/E |
| 7 | | | | Prevalence Index worksheet: |
| | 75 | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 0 x 1 = 0 |
| 1. Fraxinus americana | 20 | Yes | FACU | FACW species 0 x 2 = 0 |
| 2. Acer saccharum | 10 | Yes | FACU | FAC species <u>5</u> x 3 = <u>15</u> |
| 3. Quercus rubra | 10 | Yes | FACU | FACU species <u>177</u> x 4 = <u>708</u> |
| 4. Acer pensylvanicum | 5 | No | FACU | UPL species <u>5</u> x 5 = <u>25</u> |
| 5. Prunus serotina | 5 | No | FACU | Column Totals: 187 (A) 748 (E |
| 6. Quercus alba | 5 | No | FACU | Prevalence Index = B/A = 4.00 |
| 7. | | | | Hydrophytic Vegetation Indicators: |
| | 55 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | - | | 2 - Dominance Test is >50% |
| 1. Pteridium aquilinum | 30 | Yes | FACU | 3 - Prevalence Index is ≤3.0 ¹ |
| 2. Solidago caesia | 10 | No | FACU | 4 - Morphological Adaptations ¹ (Provide supporti |
| 3. Equisetum arvense | 5 | No | FAC | data in Remarks or on a separate sheet) |
| 4. Viburnum acerifolium | 5 | No | UPL | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. Fagus grandifolia | 2 | No | FACU | |
| 6 | | | | ¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. |
| 7 | | | | Definitions of Vegetation Strata: |
| 8 9 | | · | | Tree – Woody plants 3 in. (7.6 cm) or more in diament at breast height (DBH), regardless of height. |
| 10 11. | | · | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. |
| 12. | | · | | |
| | 52 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | Woody vines – All woody vines greater than 3.28 ft i |
| 1. Vitis aestivalis | 5 | Yes | FACU | height. |
| 2 | | . <u> </u> | | |
| 3 | | | | Hydrophytic Vegetation |
| 4. | | | | Present? Yes No X |
| | 5 | =Total Cover | | |

SOIL

| Profile Desc | ription: (Describe | to the dep | oth needed to docu | ment th | e indica | tor or co | nfirm the absence | of indicators. |) | |
|----------------------------|---------------------|------------|----------------------|-----------|-------------------|------------------|---|--------------------------------|--------------|----------------|
| Depth | Matrix | | Redo | x Featur | es | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | | Remark | s |
| 0-4 | 10YR 2/2 | 80 | 10YR 3/3 | 20 | С | М | Loamy/Clayey | Faint | redox conc | entrations |
| 4-8 | 10YR 2/1 | 100 | | | | | Loamy/Clayey | | | |
| | | <u> </u> | | | | | | · | | |
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| 1 | | · | | | | | 2 | | | |
| | | letion, RM | =Reduced Matrix, M | S=Mask | ed Sand | Grains. | | PL=Pore Lini | | - |
| Hydric Soil I | | | Debuglue Dele | | | | | for Problem | - | |
| Histosol | | | Polyvalue Belo | | ce (58) (I | .кк к, | | Muck (A10) (L Drairia Baday | | |
| | ipedon (A2) | | MLRA 149B | , | | | | Prairie Redox | | |
| Black His | | | Thin Dark Surf | | | | | Mucky Peat or | | |
| | n Sulfide (A4) | | High Chroma S | | | | | alue Below Su | | |
| | Layers (A5) | <i></i> | Loamy Mucky I | | | Κ Κ, L) | | oark Surface (| | |
| | Below Dark Surface | e (A11) | Loamy Gleyed | | F2) | | Iron-Manganese Masses (F12) (LRR K, L, R) | | | |
| | rk Surface (A12) | | Depleted Matrix | . , | | | | | |) (MLRA 149B) |
| | ucky Mineral (S1) | | Redox Dark Su | Irface (F | 6) | | Mesic | Spodic (TA6) | (MLRA 144 | IA, 145, 149B) |
| Sandy G | leyed Matrix (S4) | | Depleted Dark | Surface | (F7) | | Red P | arent Material | (F21) | |
| Sandy R | edox (S5) | | Redox Depress | sions (F8 | 8) | | Very S | Shallow Dark S | Surface (F22 | 2) |
| Stripped | Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other | (Explain in Re | marks) | |
| Dark Sur | face (S7) | | | | | | | | | |
| ³ Indicators of | hydrophytic vegetat | ion and we | etland hydrology mus | st be pre | esent. unl | ess distu | rbed or problematic. | | | |
| | ayer (if observed): | | , | | ., | | | | | |
| Type: | Ro | ck | | | | | | | | |
| Depth (in | nches): | 8 | | | | | Hydric Soil Pres | ent? | Yes | No <u>X</u> |
| Remarks: | | | | | | | - | | | |
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Upland CUU-4 View facing west



Upland CUU-4 Soils

Phase 1

SITE PHOTOGRAPHS

Champlain Hudson Power Express

| Project/Site: CHPE | City/County: Dresden/Washington Sampling Date: 10/13/21 | | | | | |
|---|--|--|--|--|--|--|
| Applicant/Owner: TDI | State: NY Sampling Point: C2N-2 Wet | | | | | |
| Investigator(s): N. Frazer, S. Berryman | Section, Township, Range: | | | | | |
| Landform (hillside, terrace, etc.): depression Local | relief (concave, convex, none): concave Slope %: 0 | | | | | |
| Subregion (LRR or MLRA): LRR R Lat: 43-39-02.53N | Long: 73-26-18.40W Datum: | | | | | |
| Soil Map Unit Name: Vergennes silty clay | NWI classification: PEM | | | | | |
| Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.) | | | | | | |
| Are Vegetation, Soil, or Hydrologysignificantly disturb | bed? Are "Normal Circumstances" present? Yes x No | | | | | |
| Are Vegetation, Soil, or Hydrologynaturally problema | atic? (If needed, explain any answers in Remarks.) | | | | | |
| SUMMARY OF FINDINGS – Attach site map showing sam | pling point locations, transects, important features, etc. | | | | | |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area | | | | | |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No | | | | | |
| Wetland Hydrology Present? Yes X No | If yes, optional Wetland Site ID: | | | | | |
| Remarks: (Explain alternative procedures here or in a separate report.) Emergent wetland in a depression. | | | | | | |

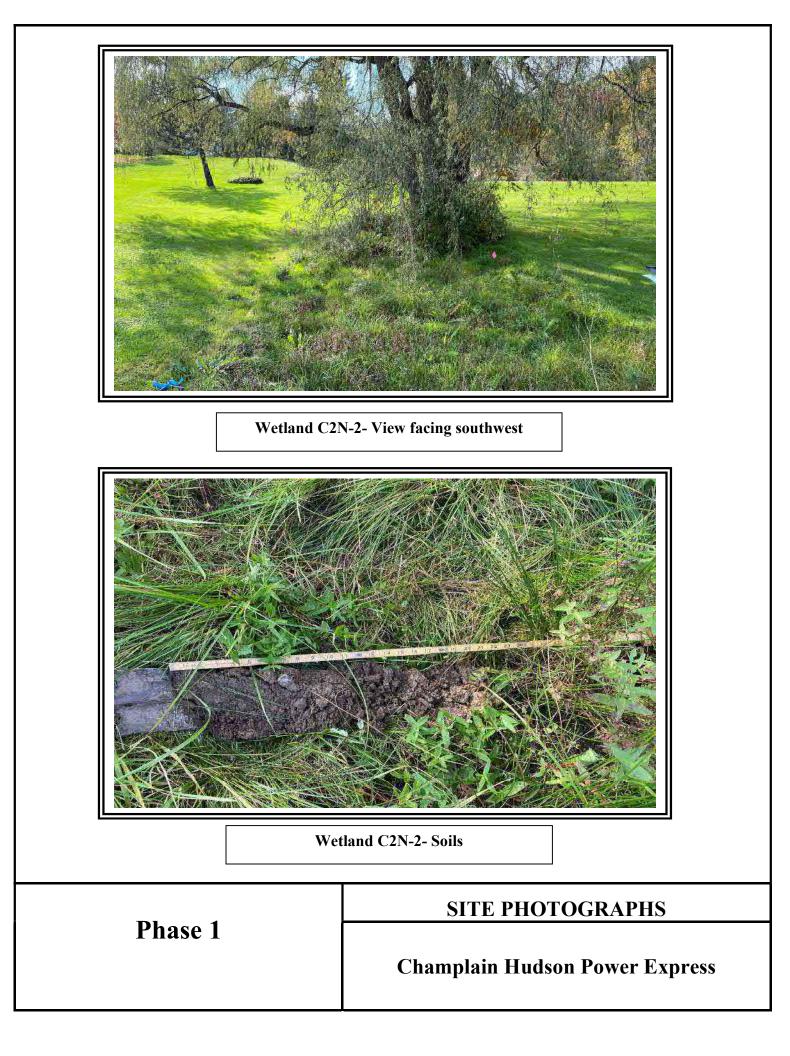
| Wetland Hydrology Indicators: | | Secondary Indicators (minimum of two required) | | | | |
|---|---|--|--|--|--|--|
| Primary Indicators (minimum of one is require | Surface Soil Cracks (B6) | | | | | |
| Surface Water (A1) | Drainage Patterns (B10) | | | | | |
| High Water Table (A2) | gh Water Table (A2) Aquatic Fauna (B13) | | | | | |
| Saturation (A3) | · · · · · · · · · · · | | | | | |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | Crayfish Burrows (C8) | | | | |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Ro | ots (C3) Saturation Visible on Aerial Imagery (C9) | | | | |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | Stunted or Stressed Plants (D1) | | | | |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils | (C6) X Geomorphic Position (D2) | | | | |
| Iron Deposits (B5) | Thin Muck Surface (C7) | Shallow Aquitard (D3) | | | | |
| Inundation Visible on Aerial Imagery (B7) |) Other (Explain in Remarks) | Microtopographic Relief (D4) | | | | |
| Sparsely Vegetated Concave Surface (B | 8) | X FAC-Neutral Test (D5) | | | | |
| Field Observations: | | | | | | |
| Surface Water Present? Yes | No x Depth (inches): | | | | | |
| Water Table Present? Yes | No x Depth (inches): | | | | | |
| Saturation Present? Yes | No x Depth (inches): | Wetland Hydrology Present? Yes X No | | | | |
| (includes capillary fringe) | | | | | | |
| Describe Recorded Data (stream gauge, mor | nitoring well, aerial photos, previous inspec | tions), if available: | | | | |
| Remarks: | | | | | | |
| Culvert to the north under roadway which con | nects to wetland outside of the project lim | ts. | | | | |
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Sampling Point: C2N-2 Wet

| | Absolute | Dominant | Indicator | Denvinence Testandadest |
|---|---------------|--------------|-----------|--|
| Tree Stratum (Plot size: 30') | % Cover | Species? | Status | Dominance Test worksheet: |
| 1. <u>Salix babylonica</u> | 25 | Yes | FACW | Number of Dominant Species |
| 2 | | | | That Are OBL, FACW, or FAC:3 (A) |
| 3 | | | | Total Number of Dominant |
| 4 | | | | Species Across All Strata: <u>3</u> (B) |
| 5 | | | | Percent of Dominant Species |
| 6. | | | | That Are OBL, FACW, or FAC: 100.0% (A/B) |
| 7. | | | | Prevalence Index worksheet: |
| | 25 | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 50 x 1 = 50 |
| | | | | FACW species 60 x 2 = 120 |
| | | | | FAC species $0 \times 3 = 0$ |
| | | | | |
| 3 | | | | FACU species <u>3</u> x 4 = <u>12</u> |
| 4 | | | | UPL species x 5 = |
| 5 | | | | Column Totals: <u>113</u> (A) <u>182</u> (B) |
| 6 | | | | Prevalence Index = B/A =1.61 |
| 7 | | | | Hydrophytic Vegetation Indicators: |
| | | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% |
| 1. Bidens frondosa | 35 | Yes | FACW | \overline{X} 3 - Prevalence Index is ≤3.0 ¹ |
| 2. Lythrum salicaria | 50 | Yes | OBL | 4 - Morphological Adaptations ¹ (Provide supporting |
| 3. Sphagnum moss sp. | 10 | No | | data in Remarks or on a separate sheet) |
| 4. Plantago lanceolata | 2 | No | FACU | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. Lotus corniculatus | 1 | No | FACU | |
| | | | FACU | ¹ Indicators of hydric soil and wetland hydrology must |
| 6. | | | | be present, unless disturbed or problematic. |
| 7 | | | | Definitions of Vegetation Strata: |
| 8 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in |
| 9 | | | | diameter at breast height (DBH), regardless of height. |
| 10 | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | | | | Herb – All herbaceous (non-woody) plants, regardless |
| | 98 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | We during All words vince greater than 2.29 ft in |
| 1 | | | | Woody vines – All woody vines greater than 3.28 ft in height. |
| 2. | | | | |
| | | | | Hydrophytic |
| | | | | Vegetation Present? Yes X No |
| 4 | | Tatal Osuar | | Present? Yes X No |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a sepa | arate sheet.) | | | |
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SOIL

| Profile Desc | ription: (Describe | to the de | pth needed to docu | ument t | he indica | tor or co | onfirm the absence of i | ndicators.) |
|----------------------------|------------------------|-----------|------------------------|-----------|-------------------|------------------|-------------------------|--|
| Depth | Matrix | | Redox | x Featur | es | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-16 | 10YR 3/2 | 70 | 7.5YR 4/4 | 30 | С | M | Loamy/Clayey | Distinct redox concentrations |
| 16-22 | 2.5Y 6/2 | 55 | 10YR 4/6 | 40 | С | M | Loamy/Clayey | Prominent redox concentrations |
| | | | 10YR 4/2 | 5 | C | M | | Distinct redox concentrations |
| | | | | | | | | |
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| 17 0.0 | | | | | | | | <u> </u> |
| | | etion, RI | M=Reduced Matrix, M | IS=Mas | ked Sand | Grains. | | =Pore Lining, M=Matrix. |
| Hydric Soil I Histosol | | | Polyvalue Belo | w Surfa | ce (S8) (I | RRR | | Problematic Hydric Soils ³ : < (A10) (LRR K, L, MLRA 149B) |
| | vipedon (A2) | | MLRA 149B | | Ce (00) (I | LIXIX IX, | | irie Redox (A16) (LRR K, L, R) |
| Black His | | | Thin Dark Surfa | , | | MIRA | | ky Peat or Peat (S3) (LRR K, L, R) |
| | n Sulfide (A4) | | High Chroma S | | | | · · · | Below Surface (S8) (LRR K, L) |
| | l Layers (A5) | | Loamy Mucky I | - | | | | Surface (S9) (LRR K, L) |
| | | (111) | | | | 、 κ, ε) | | |
| · | Below Dark Surface | ; (ATT) | Loamy Gleyed | | ΓΖ) | | | anese Masses (F12) (LRR K, L, R) |
| I —— | rk Surface (A12) | | Depleted Matrix | | | | | Floodplain Soils (F19) (MLRA 149B) |
| | lucky Mineral (S1) | | X Redox Dark Su | • | , | | | odic (TA6) (MLRA 144A, 145, 149B) |
| | leyed Matrix (S4) | | Depleted Dark | | | | | nt Material (F21) |
| | edox (S5) | | Redox Depress | | 8) | | | ow Dark Surface (F22) |
| | Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other (Exp | plain in Remarks) |
| Dark Sur | face (S7) | | | | | | | |
| ³ Indicators of | hydrophytic vegetat | ion and v | vetland hydrology mu | ıst be pı | resent, ur | nless dist | urbed or problematic. | |
| Restrictive L | ayer (if observed): | | | | | | | |
| Туре: | non | е | | | | | | |
| Depth (ir | nches): | | | | | | Hydric Soil Present | ? Yes <u>X</u> No |
| Remarks: | | | | | | | • | |
| | | | | | | | | S Field Indicators of Hydric Soils, |
| version 7.0, | 2015 Erraia. (http://w | /ww.nrcs | .usda.gov/Internet/FS | SE_DOU | | 5/nrcs14 | 2p2_051293.docx) | |
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| Project/Site: CHPE | City/County: Dresden/Washington Sampling Date: 10/13/21 | | | | | |
|---|---|--|--|--|--|--|
| Applicant/Owner: TDI | State: NY Sampling Point: C2N-2 Upl | | | | | |
| Investigator(s): N. Frazer, S. Berryman | Section, Township, Range: | | | | | |
| Landform (hillside, terrace, etc.): flat Local | relief (concave, convex, none): none Slope %: 0 | | | | | |
| Subregion (LRR or MLRA): LRR R Lat: 43-39-02.53N | Long: <u>73-26-18.40W</u> Datum: | | | | | |
| Soil Map Unit Name: Vergennes silty clay NWI classification: N/A | | | | | | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes x No (If no, explain in Remarks.) | | | | | |
| Are Vegetation, Soil, or Hydrologysignificantly distu | rbed? Are "Normal Circumstances" present? Yes x No | | | | | |
| Are Vegetation, Soil, or Hydrologynaturally problem | atic? (If needed, explain any answers in Remarks.) | | | | | |
| SUMMARY OF FINDINGS – Attach site map showing san | npling point locations, transects, important features, etc. | | | | | |

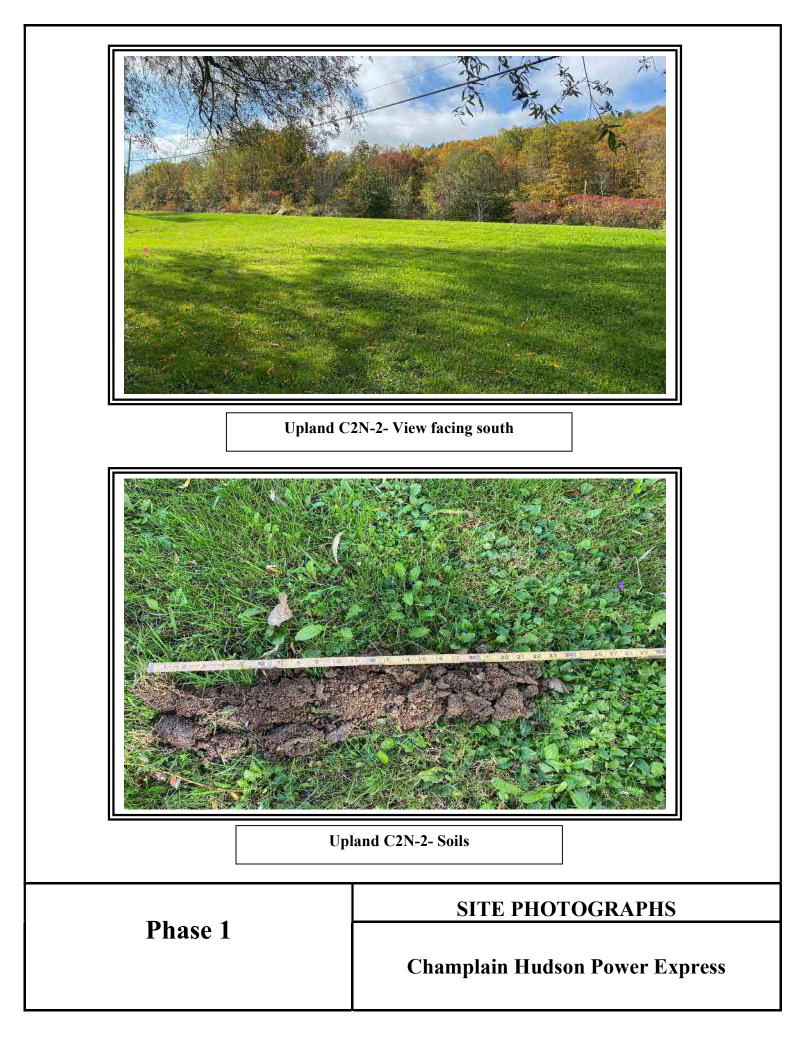
| Hydrophytic Vegetation Present? | Yes | No X | Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: |
|--|-------------------|-------------------|--|
| Hydric Soil Present? | Yes | No X | |
| Wetland Hydrology Present? | Yes | No X | |
| Remarks: (Explain alternative procedu Mowed lawn. | ires here or in a | separate report.) | |

| Wetland Hydrology Indicators: | | Secondary Indicators (minimum of two required) | | |
|---|---|--|--|--|
| Primary Indicators (minimum of one is requi | ired; check all that apply) | Surface Soil Cracks (B6) | | |
| Surface Water (A1) | Surface Water (A1)Water-Stained Leaves (B9) | | | |
| High Water Table (A2) | Aquatic Fauna (B13) | Moss Trim Lines (B16) | | |
| Saturation (A3) | Marl Deposits (B15) | Dry-Season Water Table (C2) | | |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | Crayfish Burrows (C8) | | |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Ro | Roots (C3) Saturation Visible on Aerial Imagery (C9) | | |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | Stunted or Stressed Plants (D1) | | |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils | ls (C6) Geomorphic Position (D2) | | |
| Iron Deposits (B5) | Thin Muck Surface (C7) | Shallow Aquitard (D3) | | |
| Inundation Visible on Aerial Imagery (B | 7) Other (Explain in Remarks) | Microtopographic Relief (D4) | | |
| Sparsely Vegetated Concave Surface (I | B8) | FAC-Neutral Test (D5) | | |
| Field Observations: | | | | |
| Surface Water Present? Yes | No x Depth (inches): | | | |
| Water Table Present? Yes | No x Depth (inches): | | | |
| Saturation Present? Yes | No x Depth (inches): | Wetland Hydrology Present? Yes No X | | |
| (includes capillary fringe) | | | | |
| Describe Recorded Data (stream gauge, mo | onitoring well, aerial photos, previous inspe | ections), if available: | | |
| | | | | |
| Remarks: | | | | |
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Sampling Point: C2N-2 Upl

| Tree Stratum (Plot size: <u>30'</u>) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|---|---------------------|----------------------|---------------------|--|
| 1. 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC:0 (A) |
| 3 4 | | | | Total Number of Dominant Species Across All Strata:1(B) |
| 5 6 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B) |
| 7 | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species x 1 = |
| 1 | | | | FACW species 0 x 2 = 0 |
| 2 | | | | FAC species x 3 = |
| 3. | | | | FACU species 114 x 4 = 456 |
| 4. | | | | UPL species 0 x 5 = 0 |
| 5. | | | | Column Totals: 114 (A) 456 (B) |
| 6. | | | | Prevalence Index = $B/A = 4.00$ |
| 7 | | | | Hydrophytic Vegetation Indicators: |
| ··· | | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% |
| 1. Lotus corniculatus | 2 | No | FACU | $3 - Prevalence Index is \leq 3.0^{1}$ |
| | 10 | | | 4 - Morphological Adaptations ¹ (Provide supporting |
| | | <u>No</u> | FACU | data in Remarks or on a separate sheet) |
| 3. Taraxacum officinale | 5 | No | FACU | |
| 4. <u>Poa pratensis</u> | 90 | Yes | FACU | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. <u>Glechoma hederacea</u> | 5 | No | FACU | ¹ Indicators of hydric soil and wetland hydrology must |
| 6. Trifolium repens | 2 | No | FACU | be present, unless disturbed or problematic. |
| 7 | | | | Definitions of Vegetation Strata: |
| 8 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in |
| 9 | | | | diameter at breast height (DBH), regardless of height. |
| 10 | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 12. | | | | Herb – All herbaceous (non-woody) plants, regardless |
| | 114 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | |
| 1 | | | | Woody vines – All woody vines greater than 3.28 ft in height. |
| | | | | |
| | | | | Hydrophytic |
| | | | | Vegetation Present? Yes No X |
| 4 | | -Total Cavar | | Present? Yes No _X |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a sepa | arate sheet.) | | | |
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| Depth Matrix (inches) Color (moist) % 0-14 10YR 2/2 100 14-22 10YR 3/3 100 | Redox Feature Color (moist) % | s <u>Type¹</u> Loc ² | Texture Loamy/Clayey Loamy/Clayey | Remarks |
|--|---|---|---|---|
| 0-14 10YR 2/2 100 | Color (moist) % | Type' Loc² | Loamy/Clayey | Remarks |
| | | | | |
| 14-22 10YR 3/3 100 | | | Loamy/Clayey | |
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| ¹ Type: C=Concentration, D=Depletion, RM= | Reduced Matrix MS=Mask | ed Sand Grains | ² Location: PL=Por | e Lining M=Matrix |
| Hydric Soil Indicators: | | | | blematic Hydric Soils ³ : |
| Histosol (A1) | Polyvalue Below Surface | e (S8) (LRR R, | | 10) (LRR K, L, MLRA 149B) |
| Histic Epipedon (A2) | MLRA 149B) | | Coast Prairie F | Redox (A16) (LRR K, L, R) |
| Black Histic (A3) | Thin Dark Surface (S9) | (LRR R, MLRA 1 | 1 49B) 5 cm Mucky Po | eat or Peat (S3) (LRR K, L, R) |
| Hydrogen Sulfide (A4) | High Chroma Sands (S1 | 1) (LRR K, L) | Polyvalue Belo | w Surface (S8) (LRR K, L) |
| Stratified Layers (A5) | Loamy Mucky Mineral (F | ⁼ 1) (LRR K, L) | Thin Dark Surf | ace (S9) (LRR K, L) |
| Depleted Below Dark Surface (A11) | Loamy Gleyed Matrix (F | 2) | Iron-Manganes | se Masses (F12) (LRR K, L, R) |
| Thick Dark Surface (A12) | Depleted Matrix (F3) | | Piedmont Floo | dplain Soils (F19) (MLRA 149B) |
| Sandy Mucky Mineral (S1) | Redox Dark Surface (F6 | i) | Mesic Spodic (| (TA6) (MLRA 144A, 145, 149B) |
| Sandy Gleyed Matrix (S4) | Depleted Dark Surface (| | Red Parent Ma | aterial (F21) |
| Sandy Redox (S5) | Redox Depressions (F8) | | | Dark Surface (F22) |
| Stripped Matrix (S6) | Marl (F10) (LRR K, L) | | Other (Explain | |
| Dark Surface (S7) | | | | |
| 2 | | | | |
| ³ Indicators of hydrophytic vegetation and we Restrictive Layer (if observed): | tland hydrology must be pre | sent, unless dist | urbed or problematic. | |
| Type: none | | | | |
| Depth (inches): | | | Hydric Soil Present? | Yes No _X |
| Remarks: | | | • | · · · |
| This data form is revised from Northcentral a | and Northeast Regional Sun | nlement Version | 2.0 to include the NRCS Fie | ld Indicators of Hydric Soils |



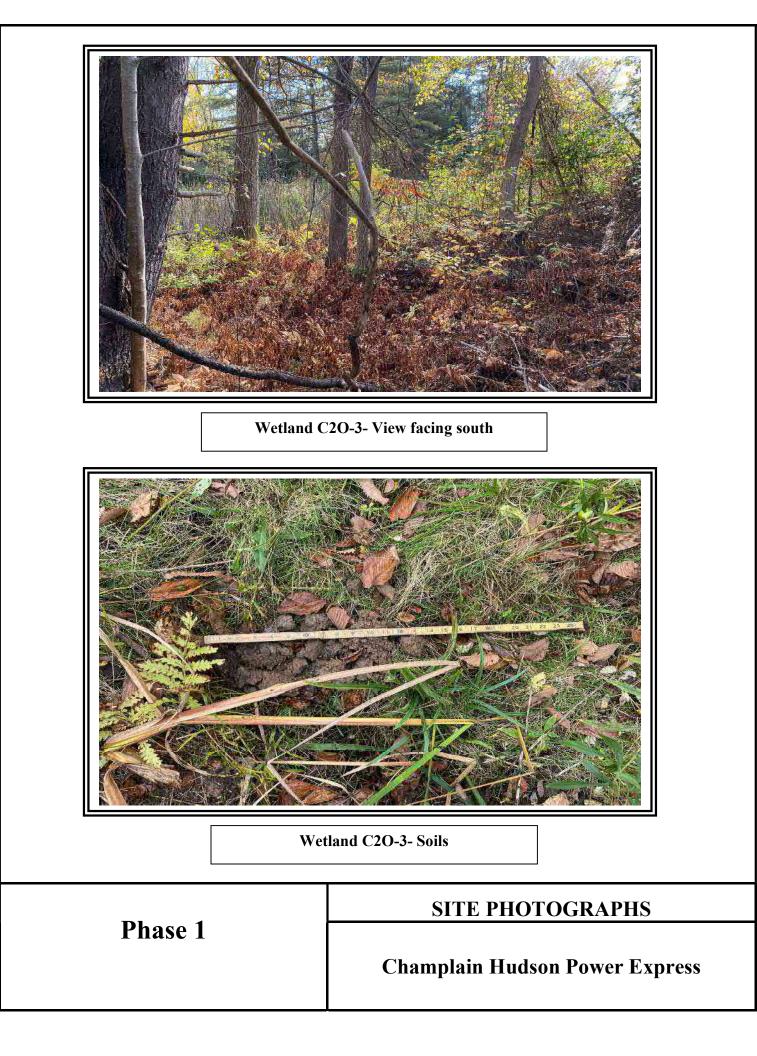
| Project/Site: CHPE | | City/County: Dresden/Washington Sampling Date: 10/13/2 | | | | | | |
|---|----------------------|---|--------------------|--------------|---------|-----------------|-----------|--|
| Applicant/Owner: TDI | | | | State: | NY | Sampling Point: | C2O-3 Wet | |
| Investigator(s): N. Frazer, S. Berryman | | | Section, Towns | hip, Range: | | | | |
| Landform (hillside, terrace, etc.): pond | edge | Local relief (co | oncave, convex, n | ione): none | | Slope | %: 0 | |
| Subregion (LRR or MLRA): LRR R | Lat: <u>4</u> 3- | -38-58.38N | Long: <u>73</u> | -26-21.72W | | Datum: | | |
| Soil Map Unit Name: Hollis-rock outcrop association NWI classification: PFO | | | | | | | | |
| Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.) | | | | | |) | | |
| Are Vegetation, Soil, or H | ydrologysig | gysignificantly disturbed? Are "Normal Circumstances" present? Yes _ x _ No | | | | | | |
| Are Vegetation, Soil, or H | ydrologynat | y naturally problematic? (If needed, explain any answers in Remarks.) | | | | | | |
| SUMMARY OF FINDINGS – Atta | ich site map sh | nowing sampling | point location | ns, transect | s, impo | ortant feature | es, etc. | |
| Hydrophytic Vegetation Present? | Yes X N | No Is th | e Sampled Area | | | | | |
| Hydric Soil Present? | Yes X N | No with | in a Wetland? | Yes | X | No | | |
| Wetland Hydrology Present? | Yes X N | No If yes | s, optional Wetlan | nd Site ID: | | | | |
| Remarks: (Explain alternative procedure | es here or in a sepa | rate report.) | | | | | | |
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| Wetland Hydrology Indicators: | | | Secondary Indicators (minimum of two required) | |
|---|--|-----------------------|--|--|
| Primary Indicators (minimum of one is require | Surface Soil Cracks (B6) | | | |
| Surface Water (A1) | Drainage Patterns (B10) | | | |
| X High Water Table (A2) | Aquatic Fauna (B13) | Moss Trim Lines (B16) | | |
| X Saturation (A3) | Marl Deposits (B15) | | Dry-Season Water Table (C2) | |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | | Crayfish Burrows (C8) | |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Ro | oots (C3) | Saturation Visible on Aerial Imagery (C9) | |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | | Stunted or Stressed Plants (D1) | |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils | s (C6) | Geomorphic Position (D2) | |
| Iron Deposits (B5) | Thin Muck Surface (C7) | | X Shallow Aquitard (D3) | |
| Inundation Visible on Aerial Imagery (B7 | Other (Explain in Remarks) | | Microtopographic Relief (D4) | |
| Sparsely Vegetated Concave Surface (B | 8) | | FAC-Neutral Test (D5) | |
| Field Observations: | | | | |
| Surface Water Present? Yes | No x Depth (inches): | | | |
| Water Table Present? Yes x | No Depth (inches): 11 | | | |
| Saturation Present? Yes x | No Depth (inches): 0 | Wetlan | d Hydrology Present? Yes X No | |
| (includes capillary fringe) | | | | |
| Describe Recorded Data (stream gauge, mor | nitoring well, aerial photos, previous inspe | ctions), if a | available: | |
| | | | | |
| | | | | |
| Remarks: | | | | |
| Adjacent to pond. | | | | |
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Sampling Point: C2O-3 Wet

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|---|---------------------|----------------------|---------------------|---|
| 1. Ulmus americana | 60 | Yes | FACW | |
| 2 Bhua tumbina | 5 | No | UPL | Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) |
| | | | | |
| 3. Betula alleghaniensis | 5 | No | FAC | Total Number of Dominant |
| 4. Pinus strobus | 20 | Yes | FACU | Species Across All Strata:(B) |
| 5 6 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: |
| 7. | | | | Prevalence Index worksheet: |
| | 90 | =Total Cover | | Total % Cover of:Multiply by: |
| Sapling/Shrub Stratum (Plot size:15') | | | | OBL species 0 x 1 = 0 |
| 1. Rhus typhina | 5 | Yes | UPL | FACW species 130 x 2 = 260 |
| 2. | | | | FAC species 5 x 3 = 15 |
| 3. | | | | FACU species 20 x 4 = 80 |
| 4. | | | | UPL species 10 x 5 = 50 |
| 5. | | | | Column Totals: 165 (A) 405 (B) |
| 6. | | | | Prevalence Index = B/A = 2.45 |
| 7. | | | | Hydrophytic Vegetation Indicators: |
| | 5 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% |
| 1. Onoclea sensibilis | 70 | Yes | FACW | X 3 - Prevalence Index is $\leq 3.0^{1}$ |
| 2. | | 100 | 17.011 | 4 - Morphological Adaptations ¹ (Provide supporting |
| 2 | | | | data in Remarks or on a separate sheet) |
| 4. | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| | | | | |
| 5. | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 6. | | | | be present, unless disturbed or problematic. |
| 7 | | | | Definitions of Vegetation Strata: |
| 8 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in |
| 9 | | | | diameter at breast height (DBH), regardless of height. |
| 10 | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | | | | Herb – All herbaceous (non-woody) plants, regardless |
| | 70 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | Woody vines – All woody vines greater than 3.28 ft in |
| 1 | | | | height. |
| 2 | | | | |
| 3 | | | | Hydrophytic Vegetation |
| 4 | | | | Present? Yes X No |
| | | =Total Cover | _ | |
| Remarks: (Include photo numbers here or on a sepa | rate sheet.) | | | 4 |
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| Profile Desc | cription: (Describe | to the de | pth needed to doc | ument ti | he indica | tor or co | onfirm the absence of in | idicators.) | |
|---------------------------|---|------------|-----------------------------------|-----------|-------------------|------------------|---|---|--|
| Depth | Matrix | | Redo | x Featur | es | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-2 | 10YR 2/1 | 100 | | | | | Muck | | |
| 2-13 | 10YR 4/2 | 70 | 7.5YR 4/4 | 30 | С | | Loamy/Clayey | Distinct redox concentrations | |
| | | | | | | | | | |
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| ¹ Type: C=Ce | oncentration, D=Dep | letion, RN | /=Reduced Matrix, N | /IS=Mas | ked Sand | Grains. | ² Location: PL= | Pore Lining, M=Matrix. | |
| Hydric Soil | Indicators: | | | | | | Indicators for I | Problematic Hydric Soils ³ : | |
| Histosol | (A1) | | Polyvalue Belo | w Surfa | ce (S8) (I | LRR R, | 2 cm Muck | (A10) (LRR K, L, MLRA 149B) | |
| Histic Ep | pipedon (A2) | | MLRA 149B |) | | | <u>?</u> Coast Prair | ie Redox (A16) (LRR K, L, R) | |
| | stic (A3) | | Thin Dark Surf | | | | 149B)5 cm Muck | y Peat or Peat (S3) (LRR K, L, R) | |
| | n Sulfide (A4) | | High Chroma S | | | | | Below Surface (S8) (LRR K, L) | |
| | d Layers (A5) | | Loamy Mucky | | | R K, L) | | Surface (S9) (LRR K, L) | |
| · · · | d Below Dark Surface | e (A11) | Loamy Gleyed | | F2) | | | nese Masses (F12) (LRR K, L, R) | |
| | ark Surface (A12) lucky Mineral (S1) | | X Depleted Matri Redox Dark St | | 6) | | | iloodplain Soils (F19) (MLRA 149B) | |
| | Bleyed Matrix (S4) | | Depleted Dark | `` | , | | Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) | | |
| | Redox (S5) | | ? Redox Depres | | ` ' | | Very Shallow Dark Surface (F22) | | |
| | Matrix (S6) | | Marl (F10) (LR | | - / | | Other (Explain in Remarks) | | |
| | rface (S7) | | | . , | | | () | , | |
| | | | | | | | | | |
| ³ Indicators o | f hydrophytic vegeta | tion and v | vetland hydrology mu | ust be pr | resent, ur | nless dist | urbed or problematic. | | |
| | Layer (if observed): | | | | | | | | |
| Туре: | roc | k | | | | | | | |
| Depth (ii | nches): | 13 | | | | | Hydric Soil Present? | Yes X No | |
| Remarks: This data for | m is revised from No | orthcentra | l and Northeast Reg | ional Su | pplement | t Version | 2.0 to include the NRCS | Field Indicators of Hydric Soils, | |
| | 2015 Errata. (http://v | | | | | | | · · · · | |
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| Project/Site: CHPE | City/County: Dresden/Washington Sampling Date: 10/13/ | | | | | |
|---|---|--|--|--|--|--|
| Applicant/Owner: TDI | State: NY Sampling Point: C20-4 W | | | | | |
| Investigator(s): N. Frazer, S. Berryman | Section, Township, Range: | | | | | |
| Landform (hillside, terrace, etc.): pond edge Loca | al relief (concave, convex, none): <u>concave</u> Slope %: <u>1</u> | | | | | |
| Subregion (LRR or MLRA): LRR R Lat: 43-38-58.38N | Long: 73-26-21.72W Datum: | | | | | |
| Soil Map Unit Name: Hollis-rock outcrop association NWI classification: PEM | | | | | | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes x No (If no, explain in Remarks.) | | | | | |
| Are Vegetation, Soil, or Hydrologysignificantly dist | urbed? Are "Normal Circumstances" present? Yes x No | | | | | |
| Are Vegetation, Soil, or Hydrologynaturally problem | natic? (If needed, explain any answers in Remarks.) | | | | | |
| SUMMARY OF FINDINGS – Attach site map showing sa | mpling point locations, transects, important features, etc. | | | | | |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area | | | | | |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No | | | | | |
| Wetland Hydrology Present? Yes X No | If yes, optional Wetland Site ID: | | | | | |
| Remarks: (Explain alternative procedures here or in a separate report.) Wetland is fringe to a pond. | · | | | | | |

| Wetland Hydrology Indicators: | | 5 | Secondary Indicators (minimum of two required) | | |
|--|--------------------------------------|-----------|--|--|--|
| Primary Indicators (minimum of one is require | ed; check all that apply) | | Surface Soil Cracks (B6) | | |
| Surface Water (A1) | Water-Stained Leaves (B9) | | Drainage Patterns (B10) | | |
| X High Water Table (A2) | Aquatic Fauna (B13) | | Moss Trim Lines (B16) | | |
| X Saturation (A3) | Marl Deposits (B15) | | Dry-Season Water Table (C2) | | |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | | Crayfish Burrows (C8) | | |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Ro | oots (C3) | Saturation Visible on Aerial Imagery (C9) | | |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | | Stunted or Stressed Plants (D1) | | |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soil | s (C6) | X Geomorphic Position (D2) | | |
| Iron Deposits (B5) | Thin Muck Surface (C7) | _ | X Shallow Aquitard (D3) | | |
| Inundation Visible on Aerial Imagery (B7 |) Other (Explain in Remarks) | - | Microtopographic Relief (D4) | | |
| Sparsely Vegetated Concave Surface (B | 8) | _ | X FAC-Neutral Test (D5) | | |
| Field Observations: | | | | | |
| Surface Water Present? Yes | No x Depth (inches): | | | | |
| Water Table Present? Yes x | No Depth (inches): 11 | | | | |
| Saturation Present? Yes x | No Depth (inches): 0 | Watland | Hydrology Present? Yes X No | | |
| Saturation Present? Yes x | No Deptil (inches). 0 | wellanu | | | |
| (includes capillary fringe) | No Depth (inches) | wettand | | | |
| | | | | | |
| (includes capillary fringe) | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mor | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mor Remarks: | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mor | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mor Remarks: | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mor Remarks: | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mor Remarks: | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mor Remarks: | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mor Remarks: | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mor Remarks: | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mor Remarks: | | | | | |

Sampling Point: C2O-4 Wet

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|---|---------------------|----------------------|---------------------|---|
| 1. 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC:2 (A) |
| 3 4 | | | | Total Number of Dominant Species Across All Strata: <u>3</u> (B) |
| 5 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B) |
| 7 | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 30 x 1 = 30 |
| 1. Lonicera tatarica | 30 | Yes | FACU | FACW species 2 x 2 = 4 |
| 2. | | | | FAC species 40 x 3 = 120 |
| 3. | | | | FACU species 30 x 4 = 120 |
| 4. | | | | UPL species 0 x 5 = 0 |
| 5. | | | | Column Totals: 102 (A) 274 (B) |
| 6. | | | | Prevalence Index = $B/A = 2.69$ |
| 7 | | | | Hydrophytic Vegetation Indicators: |
| 1 | 30 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% |
| 1. Euthamia graminifolia | 40 | Yes | FAC | X 3 - Prevalence Index is $\leq 3.0^{1}$ |
| 2. Typha angustifolia | 30 | Yes | OBL | 4 - Morphological Adaptations ¹ (Provide supporting |
| 3. Onoclea sensibilis | 2 | No | FACW | data in Remarks or on a separate sheet) |
| | Z | NU | FACW | |
| 4. | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 6 | . <u> </u> | | | be present, unless disturbed or problematic. |
| 7 | | | | Definitions of Vegetation Strata: |
| 8 9 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 10. 11. | | | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size:30') 1. | | | | Woody vines – All woody vines greater than 3.28 ft in height. |
| 2. | | | | |
| 3. | | | | Hydrophytic Vegetation |
| 4. | | | | Present? Yes X No |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a sepa | arate sheet.) | | | |
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| Profile Des | cription: (Describe | to the de | pth needed to doc | ument ti | he indica | ator or co | onfirm the absence o | f indicators.) |
|--------------|------------------------|------------|---------------------|-----------|-------------------|---------------------|-----------------------|--|
| Depth | Matrix | | Redo | x Featur | es | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-2 | 10YR 2/1 | 100 | | | | | Muck | |
| 2-13 | 10YR 4/2 | 70 | 7.5YR 4/4 | 30 | С | М | Loamy/Clayey | Distinct redox concentrations |
| | | | | | | | | |
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| 1 | | | | | | | | |
| Hydric Soil | oncentration, D=Dep | letion, RN | I=Reduced Matrix, N | /IS=Mas | ked Sand | d Grains. | | PL=Pore Lining, M=Matrix. |
| Histosol | | | Polyvalue Belo | w Surfa | ce (S8) (I | | | ick (A10) (LRR K, L, MLRA 149B) |
| | pipedon (A2) | | MLRA 149B | | | | | rairie Redox (A16) (LRR K, L, R) |
| | istic (A3) | | Thin Dark Surf | <i>'</i> |) (LRR R | , MLRA [·] | | icky Peat or Peat (S3) (LRR K, L, R) |
| | en Sulfide (A4) | | High Chroma S | | | | | e Below Surface (S8) (LRR K, L) |
| Stratifie | d Layers (A5) | | Loamy Mucky | | | | Thin Dar | rk Surface (S9) (LRR K, L) |
| X Deplete | d Below Dark Surface | e (A11) | Loamy Gleyed | Matrix (| F2) | | Iron-Mar | nganese Masses (F12) (LRR K, L, R) |
| Thick D | ark Surface (A12) | | X Depleted Matri | x (F3) | | | Piedmor | nt Floodplain Soils (F19) (MLRA 149B) |
| Sandy N | /lucky Mineral (S1) | | Redox Dark Su | urface (F | 6) | | Mesic S | podic (TA6) (MLRA 144A, 145, 149B) |
| Sandy C | Gleyed Matrix (S4) | | Depleted Dark | Surface | e (F7) | | Red Par | ent Material (F21) |
| Sandy F | Redox (S5) | | Redox Depres | sions (F | 8) | | Very Sha | allow Dark Surface (F22) |
| Stripped | l Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other (E | xplain in Remarks) |
| Dark Su | rface (S7) | | | | | | | |
| 31 11 1 | | | | | | | | |
| | Layer (if observed): | | etiand hydrology mi | ust be pi | resent, ur | niess alsi | urbed or problematic. | |
| Type: | roc | | | | | | | |
| Depth (i | nches): | 13 | | | | | Hydric Soil Prese | nt? Yes <u>X</u> No |
| Remarks: | | | | | | | | |
| | | | | | | | | CS Field Indicators of Hydric Soils, |
| Version 7.0, | 2015 Errata. (http://v | www.nrcs. | usda.gov/Internet/F | SE_DOC | CUMENT | S/nrcs14 | 2p2_051293.docx) | |
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| Project/Site: CHPE | City/County: Dresden/Washington Sampling Date: 10/13/21 |
|---|--|
| Applicant/Owner: TDI | State: NY Sampling Point: C2O-3 and 4 Upl |
| Investigator(s): N. Frazer, S. Berryman | Section, Township, Range: |
| Landform (hillside, terrace, etc.): flat Local | relief (concave, convex, none): none Slope %: 0 |
| Subregion (LRR or MLRA): LRR R Lat: 43-38-58.38N | Long: 73-26-21.72W Datum: |
| Soil Map Unit Name: Hollis-rock outcrop association | NWI classification: N/A |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes x No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly distur | rbed? Are "Normal Circumstances" present? Yes x No |
| Are Vegetation, Soil, or Hydrologynaturally problems | atic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sam | pling point locations, transects, important features, etc. |

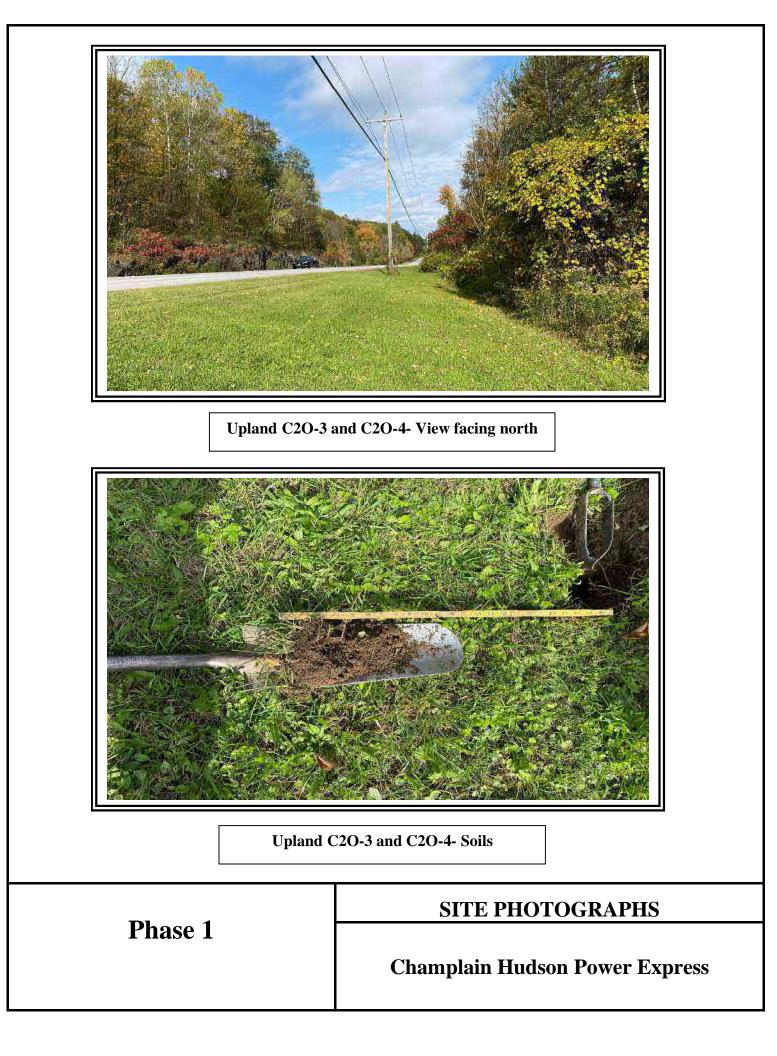
| Hydrophytic Vegetation Present? | Yes | No X | Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: |
|--|-------------------|-------------------|--|
| Hydric Soil Present? | Yes | No X | |
| Wetland Hydrology Present? | Yes | No X | |
| Remarks: (Explain alternative procedu Mowed roadside. | ires here or in a | separate report.) | |

| Wetland Hydrology Indicators: | <u>mum of two required)</u> | | | | |
|---|--|--------------------------|-----------------------------|--------------------|--|
| Primary Indicators (minimum of one is require | | Surface Soil Cracks (B6) | | | |
| Surface Water (A1) | Water-Stained Leaves (B9) | | Drainage Patterns (B10) | | |
| High Water Table (A2) | Aquatic Fauna (B13) | | Moss Trim Lines (B16) | | |
| Saturation (A3) | Marl Deposits (B15) | | Dry-Season Water Table (C2) | | |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | | Crayfish Burrows (C8) | | |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Ro | oots (C3) | Saturation Visible on A | erial Imagery (C9) | |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | | Stunted or Stressed Pl | ants (D1) | |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soil | s (C6) | Geomorphic Position (I | D2) | |
| Iron Deposits (B5) | Thin Muck Surface (C7) | | Shallow Aquitard (D3) | | |
| Inundation Visible on Aerial Imagery (B7 |) Other (Explain in Remarks) | | Microtopographic Relie | f (D4) | |
| Sparsely Vegetated Concave Surface (B | 8) | | FAC-Neutral Test (D5) | | |
| Field Observations: | | | | | |
| Surface Water Present? Yes | No x Depth (inches): | | | | |
| Water Table Present? Yes | No x Depth (inches): | | | | |
| Saturation Present? Yes | No x Depth (inches): | Wetlan | d Hydrology Present? | Yes No X | |
| (includes capillary fringe) | / | | | | |
| Describe Recorded Data (stream gauge, mor | nitoring well, aerial photos, previous inspe | ections), if a | available: | | |
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| Remarks: | | | | | |
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Sampling Point: 220-3 and 4 Up

| <u>Tree Stratum</u> (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|---|---------------------|----------------------|---------------------|---|
| 1 | | | | Number of Dominant Species |
| 2. | | | | That Are OBL, FACW, or FAC: 0 (A) |
| 3 | | | | Total Number of Dominant |
| 4 | | | | Species Across All Strata: 1 (B) |
| 5 | | | | Percent of Dominant Species |
| 6 | | | | That Are OBL, FACW, or FAC: 0.0% (A/B) |
| 7 | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of:Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species x 1 = |
| 1 | | | | FACW species 0 x 2 = 0 |
| 2 | | | | FAC species x 3 = |
| 3 | | | | FACU species <u>92</u> x 4 = <u>368</u> |
| 4 | | | | UPL species <u>10</u> x 5 = <u>50</u> |
| 5 | | | | Column Totals: 102 (A) 418 (B) |
| 6 | | | | Prevalence Index = B/A = 4.10 |
| 7 | | | | Hydrophytic Vegetation Indicators: |
| | | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% |
| 1. Pastinaca sativa | 8 | No | UPL | 3 - Prevalence Index is ≤3.0 ¹ |
| 2. Plantago lanceolata | | No | FACU | 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) |
| 3. Taraxacum officinale | | No | FACU | |
| 4. Glechoma hederacea | 5 | No | FACU | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. Daucus carota | 2 | No | UPL | ¹ Indicators of hydric soil and wetland hydrology must |
| 6. <u>Poa pratensis</u> | 70 | Yes | FACU | be present, unless disturbed or problematic. |
| 7 | | | | Definitions of Vegetation Strata: |
| 8 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in |
| 9 | | | | diameter at breast height (DBH), regardless of height. |
| 10 | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | 102 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | Woody vines – All woody vines greater than 3.28 ft in |
| 1 | | | | height. |
| 2 | | | | the description |
| 3 | | | | Hydrophytic Vegetation |
| 4 | | | | Present? Yes No X |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a sepa | rate sheet.) | | | |
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| | ription: (Describe | to the de | | | | tor or co | onfirm the absence of indi | cators.) |
|-------------------------|------------------------|------------|------------------------|-------------------|-------------------|------------------|------------------------------|--|
| Depth | Matrix | | | x Featur | | | | |
| (inches) | Color (moist) | % | Color (moist) | | Type ¹ | Loc ² | Texture | Remarks |
| 0-8 | 10YR 3/4 | 100 | | | | | Loamy/Clayey | |
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| ¹ Type: C=Co | oncentration, D=Depl | etion. RM | =Reduced Matrix. N | /IS=Mas | ked Sanc | Grains. | ² Location: PL=Po | re Lining, M=Matrix. |
| Hydric Soil I | | , | , | | | | | oblematic Hydric Soils ³ : |
| Histosol | | | Polyvalue Belc | w Surfa | ce (S8) (I | LRR R. | | 10) (LRR K, L, MLRA 149B) |
| | pipedon (A2) | | MLRA 149B | | | , | | Redox (A16) (LRR K, L, R) |
| Black His | | | Thin Dark Surf | , | | MI RA 1 | | eat or Peat (S3) (LRR K, L, R) |
| | n Sulfide (A4) | | High Chroma S | | - | | | ow Surface (S8) (LRR K, L) |
| | I Layers (A5) | | Loamy Mucky | - | | | | face (S9) (LRR K, L) |
| | Below Dark Surface | (11) | Loamy Gleyed | | | 、 ∩, ∟) | | se Masses (F12) (LRR K, L, R) |
| | ark Surface (A12) | ; (,,,,) | Depleted Matri | | 12) | | | odplain Soils (F19) (MLRA 149B) |
| | | | Redox Dark Su | | () | | | |
| | lucky Mineral (S1) | | | | - | | | (TA6) (MLRA 144A, 145, 149B) |
| | leyed Matrix (S4) | | Depleted Dark | | | | Red Parent M | |
| | edox (S5) | | Redox Depress | | 0) | | | Dark Surface (F22) |
| | Matrix (S6) | | Marl (F10) (LR | (R K, L) | | | Other (Explain | i in Remarks) |
| Dark Sur | face (S7) | | | | | | | |
| 3 | | | | | | | | |
| | | ion and w | etland hydrology mu | ust be pr | resent, ur | iless dist | urbed or problematic. | |
| _ | _ayer (if observed): | | | | | | | |
| Туре: | rock/road | side fill | | | | | | |
| Depth (ir | nches): | 8 | | | | | Hydric Soil Present? | Yes <u>No X</u> |
| Remarks: | | | | | | | | |
| | m is revised from No | rthcentral | and Northeast Reg | ional Su | pplement | Version | 2.0 to include the NRCS Fie | eld Indicators of Hydric Soils, |
| | 2015 Errata. (http://w | | | | | | | |
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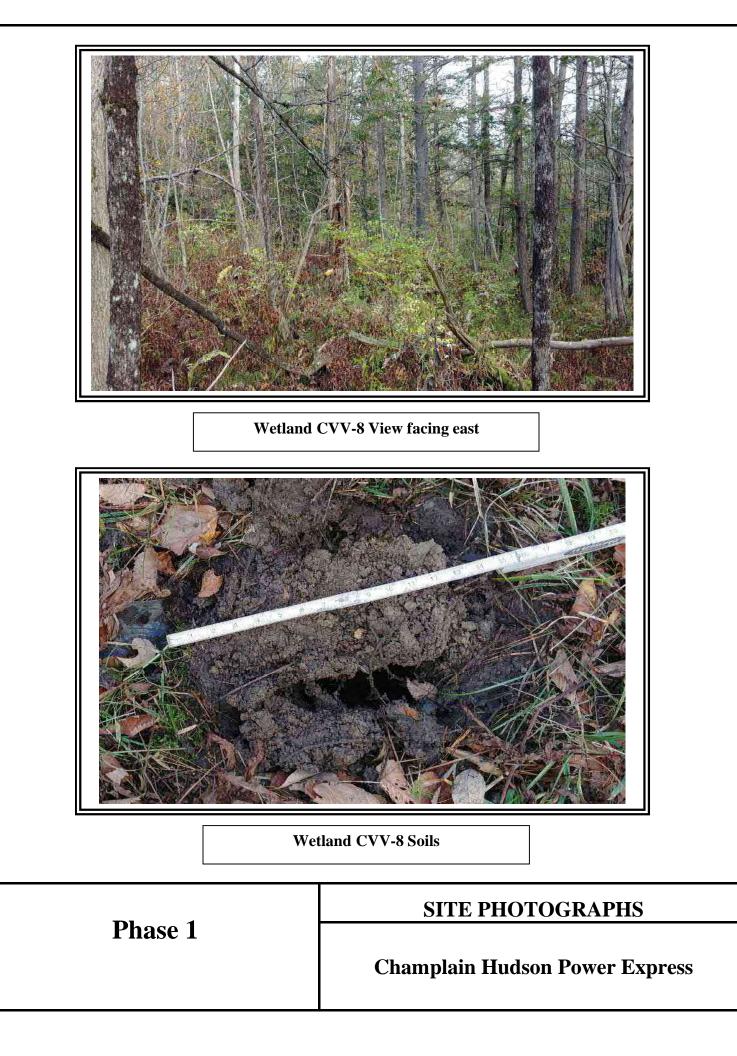


| Project/Site: CHPE | City/County: Dresden / Washington Sampling Date: 10/15/21 |
|--|---|
| Applicant/Owner: TDI | State: NY Sampling Point: WET CVV-8 |
| Investigator(s): C. Scrivner, C. Einstein | Section, Township, Range: |
| Landform (hillside, terrace, etc.): Depression Local | relief (concave, convex, none): Concave Slope %: 2 |
| Subregion (LRR or MLRA): LRR R Lat: 43-38-36.35N | Long: 73-26-40.42W Datum: WGS 84 |
| Soil Map Unit Name: HNC - Hollis-Rock outcrop association, gently sloping | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes X No (If no, explain in Remarks.) |
| Are Vegetation , Soil , or Hydrology significantly disturb | |
| | |
| Are Vegetation, Soil, or Hydrologynaturally problema | |
| SUMMARY OF FINDINGS – Attach site map showing sam | ipling point locations, transects, important reatures, etc. |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No |
| Wetland Hydrology Present? Yes X No | If yes, optional Wetland Site ID: Near Flag CVV-8 |
| Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Forested Wetland. Edinger classification: Red-maple Hardwood | Swamp. |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1)Water-Stained Leaves (E | B9) X Drainage Patterns (B10) |
| High Water Table (A2) Aquatic Fauna (B13) | X Moss Trim Lines (B16) |
| Saturation (A3)Marl Deposits (B15) | Dry-Season Water Table (C2) |
| Water Marks (B1) Hydrogen Sulfide Odor (| |
| Sediment Deposits (B2)Oxidized Rhizospheres c | |
| Drift Deposits (B3) Presence of Reduced Irc Algal Mat or Crust (B4) Recent Iron Reduction in | |
| Iron Deposits (B5) Thin Muck Surface (C7) | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark | |
| Sparsely Vegetated Concave Surface (B8) | FAC-Neutral Test (D5) |
| Field Observations: | |
| Surface Water Present? Yes No X Depth (inches): | |
| Water Table Present? Yes No X Depth (inches): | |
| Saturation Present? Yes No X Depth (inches): | Wetland Hydrology Present? Yes X No |
| (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre | vious inspections), if available: |
| | |
| Remarks: | |
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Sampling Point: WET CVV-8

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|---------------------------------------|---------------------|----------------------|---------------------|---|
| 1. Ulmus americana | 75 | Yes | FACW | Number of Dominant Species |
| 2. Juniperus virginiana | 10 | No | FACU | That Are OBL, FACW, or FAC: <u>3</u> (A) |
| 3. Pinus strobus | 5 | No | FACU | Total Number of Dominant |
| 4. Tsuga canadensis | 5 | No | FACU | Species Across All Strata: <u>6</u> (B) |
| 5. | | | | Percent of Dominant Species |
| 6. | | | | That Are OBL, FACW, or FAC: 50.0% (A/E |
| 7 | | | | Prevalence Index worksheet: |
| | 95 | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15' |) | | | OBL species <u>5</u> x 1 = <u>5</u> |
| 1. Zanthoxylum americanum | 25 | Yes | FACU | FACW species 123 x 2 = 246 |
| 2. Lonicera morrowii | 10 | Yes | FACU | FAC species x 3 =75 |
| 3. Ulmus americana | 5 | No | FACW | FACU species 81 x 4 = 324 |
| A. Rhamnus cathartica | 5 | No | FAC | UPL species 0 x 5 = 0 |
| 5. | | | | Column Totals: 234 (A) 650 (B |
| 5. | | | | Prevalence Index = B/A = 2.78 |
| 7. | | | | Hydrophytic Vegetation Indicators: |
| | 45 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% |
| 1. Onoclea sensibilis | 30 | Yes | FACW | X 3 - Prevalence Index is $\leq 3.0^{1}$ |
| 2. Equisetum arvense | 15 | Yes | FAC | 4 - Morphological Adaptations ¹ (Provide supporti |
| 3. Pinus strobus | 10 | Yes | FACU | data in Remarks or on a separate sheet) |
| 4. Inula helenium | 8 | No | FACU | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. Solidago gigantea | 8 | No | FACW | ¹ Indicators of hydric soil and wetland hydrology must |
| 6. Symphyotrichum ericoides | 8 | No | FACU | present, unless disturbed or problematic. |
| 7. Ulmus americana | 5 | No | FACW | Definitions of Vegetation Strata: |
| 3. Solidago rugosa | 5 | No | FAC | Tree – Woody plants 3 in. (7.6 cm) or more in diame |
| 9. Carex bebbii | 5 | No | OBL | at breast height (DBH), regardless of height. |
| 10. | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 11. | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 12. | | | | Herb – All herbaceous (non-woody) plants, regardles |
| | 94 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| Noody Vine Stratum (Plot size: 30' |) | | | Woody vines – All woody vines greater than 3.28 ft i |
| 1. | - | | | height. |
| 2. | | | | |
| 3. | | | | Hydrophytic Vegetation |
| | | | | Present? Yes X No |
| 4. | | | | |

| Profile Desc | ription: (Describe t | o the de | pth needed to docu | ment th | e indica | tor or co | nfirm the absence of indic | ators.) |
|--|--------------------------|-----------|--------------------------|-----------|-------------------|------------------|----------------------------|---|
| Depth | Matrix | | Redox | x Featur | es | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-8 | 10YR 3/1 | 85 | 10YR 4/6 | 15 | С | М | Mucky Loam/Clay P | rominent redox concentrations |
| 8-16 | 10YR 4/1 | 70 | 10YR 4/6 | 30 | С | Μ | Loamy/Clayey | |
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| ¹ Type: C=Co Hydric Soil I | | etion, RN | I=Reduced Matrix, MS | S=Mask | ed Sand | Grains. | | re Lining, M=Matrix. bblematic Hydric Soils ³ : |
| Histosol | | | Polyvalue Belov | w Surfac | ce (S8) (I | RR R. | | 10) (LRR K, L, MLRA 149B) |
| | ipedon (A2) | | MLRA 149B) | | - (/ (| , | | Redox (A16) (LRR K, L, R) |
| Black His | stic (A3) | | Thin Dark Surfa | ace (S9) | (LRR R | , MLRA 1 | 149B) 5 cm Mucky P | Peat or Peat (S3) (LRR K, L, R) |
| Hydroger | n Sulfide (A4) | | High Chroma S | Sands (S | 11) (LRF | R K, L) | Polyvalue Bel | ow Surface (S8) (LRR K, L) |
| Stratified | Layers (A5) | | Loamy Mucky M | Mineral (| F1) (LRF | R K, L) | Thin Dark Sur | face (S9) (LRR K, L) |
| | Below Dark Surface | e (A11) | Loamy Gleyed | | -2) | | | ese Masses (F12) (LRR K, L, R) |
| | rk Surface (A12) | | X Depleted Matrix | | | | | odplain Soils (F19) (MLRA 149B) |
| | ucky Mineral (S1) | | X Redox Dark Su | | | | | (TA6) (MLRA 144A, 145, 149B) |
| | leyed Matrix (S4) | | Depleted Dark | | | | Red Parent M | |
| | edox (S5) | | ? Redox Depress | | 3) | | | Dark Surface (F22) |
| | Matrix (S6) face (S7) | | Marl (F10) (LR I | R K, L) | | | Other (Explain | n in Remarks) |
| Dark Sur | | | | | | | | |
| | | on and w | etland hydrology mus | st be pre | sent, unl | ess distu | rbed or problematic. | |
| Restrictive L Type: | ayer (if observed): | | | | | | | |
| | ches): | | | | | | Hydric Soil Present? | Yes X No |
| Remarks: | | | | | | | | |
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| Project/Site: CHPE | | City/County: Dresden / Washington | Sampling Date: 10/15/21 |
|--|--------------------------------|--|------------------------------------|
| Applicant/Owner: TDI | | State | : NY Sampling Point: UPL CVV-8 |
| Investigator(s): C. Scrivner, C. Einstein | | Section, Township, Range: | : |
| Landform (hillside, terrace, etc.): Hillslope | Local r | elief (concave, convex, none): <u>Conc</u> | cave Slope %: 100 |
| Subregion (LRR or MLRA): LRR R | Lat: 43-38-36.86N | Long: 73-26-41.36V | N Datum: WGS 84 |
| Soil Map Unit Name: HNC - Hollis-Rock outcr | op association, gently sloping | and sloping NWI class | sification: NA |
| Are climatic / hydrologic conditions on the site t | ypical for this time of year? | Yes X No | (If no, explain in Remarks.) |
| Are Vegetation , Soil , or Hydrold | ogy significantly disturb | | ces" present? Yes X No |
| Are Vegetation, Soil, or Hydrold | | | answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach | | | sects, important features, etc. |
| Hydrophytic Vegetation Present? | Yes No X | Is the Sampled Area | |
| | Yes No X | | esNoX |
| Wetland Hydrology Present? | Yes No X | If yes, optional Wetland Site ID: | |
| Remarks: (Explain alternative procedures her Successional Northern Hardwoods. | e or in a separate report.) | | |
| HYDROLOGY | | | |
| Wetland Hydrology Indicators: | | Secondary Inc | dicators (minimum of two required) |
| Primary Indicators (minimum of one is required | d; check all that apply) | Surface S | Soil Cracks (B6) |
| Surface Water (A1) | Water-Stained Leaves (B | | Patterns (B10) |
| High Water Table (A2) | Aquatic Fauna (B13) | | n Lines (B16) |
| Saturation (A3) | Marl Deposits (B15) | | on Water Table (C2) |
| Water Marks (B1) | Hydrogen Sulfide Odor (C | , | Burrows (C8) |
| Sediment Deposits (B2) | Oxidized Rhizospheres or | n Living Roots (C3) Saturation | n Visible on Aerial Imagery (C9) |

Presence of Reduced Iron (C4)

Depth (inches):

Depth (inches):

Depth (inches):

Thin Muck Surface (C7)

Other (Explain in Remarks)

Recent Iron Reduction in Tilled Soils (C6)

| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | |
|--|-----------------------------------|--------------------------------------|-------------------------------------|
| | Describe Recorded Data (stream a | auge monitoring well serial photoe | provinue increations) if available. |
| | Describe Recorded Data (Stream ga | auge, mornioring wen, aenai priotos, | |

No<u>X</u>

No X

No X

Remarks:

Drift Deposits (B3)

Iron Deposits (B5)

Field Observations:

Surface Water Present?

(includes capillary fringe)

Water Table Present?

Saturation Present?

Algal Mat or Crust (B4)

Inundation Visible on Aerial Imagery (B7) _____ Sparsely Vegetated Concave Surface (B8)

Yes

Yes

Yes

Yes ____ No _ X

Stunted or Stressed Plants (D1)

Geomorphic Position (D2)

Microtopographic Relief (D4)

Shallow Aquitard (D3)

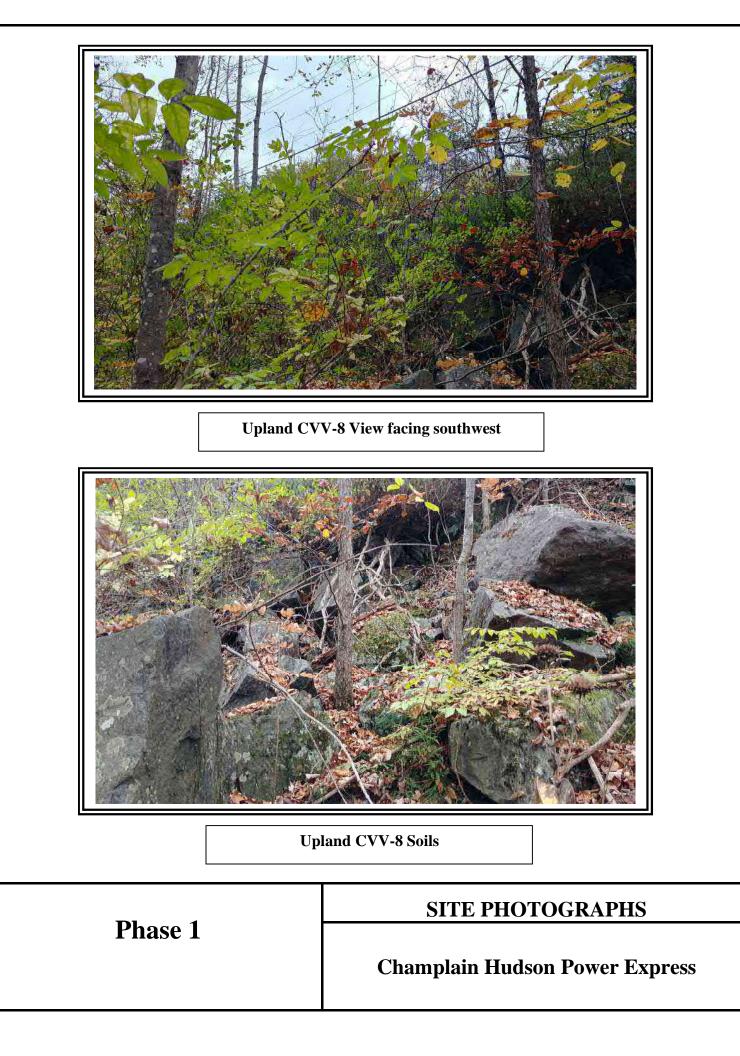
FAC-Neutral Test (D5)

Wetland Hydrology Present?

Sampling Point: UPL CVV-8

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|--|---------------------|----------------------|---------------------|--|
| 1. Fraxinus americana | 40 | Yes | FACU | |
| 2. Acer saccharum | 10 | Yes | FACU | Number of Dominant SpeciesThat Are OBL, FACW, or FAC:1(A) |
| 3. Tilia americana | 10 | Yes | FACU | |
| 4. Ostrya virginiana | 10 | Yes | FACU | Total Number of Dominant Species Across All Strata: 9 (B) |
| 5. Tsuga canadensis | 5 | No | FACU | |
| 6. Pinus strobus | 5 | No | FACU | Percent of Dominant Species That Are OBL, FACW, or FAC: 11.1% (A/ |
| 7. Rhamnus cathartica | 5 | No | FAC | Prevalence Index worksheet: |
| | 85 | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | - | | OBL species 0 x 1 = 0 |
| 1. Lonicera morrowii | 30 | Yes | FACU | FACW species $0 	 x 2 = 0$ |
| 2. Rhus typhina | 10 | Yes | UPL | FAC species 25 x 3 = 75 |
| 3. Juniperus virginiana | 5 | No | FACU | FACU species 132 x 4 = 528 |
| 4. | | | | UPL species $10 \times 5 = 50$ |
| 5. | | | | Column Totals: 167 (A) 653 (|
| а. Э. | | | | Prevalence Index = B/A = 3.91 |
| 7. | | | | Hydrophytic Vegetation Indicators: |
| | 45 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% |
| 1. Equisetum arvense | 20 | Yes | FAC | 3 - Prevalence Index is ≤3.0 ¹ |
| 2. Lonicera morrowii | 10 | Yes | FACU | 4 - Morphological Adaptations ¹ (Provide support |
| 3. Zanthoxylum americanum | 2 | No | FACU | data in Remarks or on a separate sheet) |
| 4. | | | 17.00 | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5 | | | | |
| 6. | | | | ¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. |
| 7 | | | | Definitions of Vegetation Strata: |
| 3 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diame |
| 9 | | | | at breast height (DBH), regardless of height. |
| 10 | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | | | | Herb – All herbaceous (non-woody) plants, regardle |
| | 32 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | Woody vines – All woody vines greater than 3.28 ft |
| 1. Vitis aestivalis | 5 | Yes | FACU | height. |
| 2 | | | | |
| 3 | | | | Hydrophytic Vegetation |
| | | | | Present? Yes No X |
| 4 | | | | |

| Profile Desc | ription: (Describe t | o the de | pth needed to docu | ment th | e indica | tor or cor | nfirm the absence of indicators.) |
|----------------------------|------------------------|------------|-----------------------|-----------|-------------------|------------------|--|
| Depth | Matrix | | Redo | x Featur | es | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture Remarks |
| | | | | | | | |
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| ¹ Type: C=Co | ncentration. D=Deple | etion. RM | Reduced Matrix, M | S=Mask | ed Sand | Grains. | ² Location: PL=Pore Lining, M=Matrix. |
| Hydric Soil I | | | | | | | Indicators for Problematic Hydric Soils ³ : |
| Histosol (| | | Polyvalue Belo | w Surfac | ce (S8) (I | _RR R, | 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| | ipedon (A2) | | MLRA 1498 | | ()(| | Coast Prairie Redox (A16) (LRR K, L, R) |
| Black His | , | | Thin Dark Surfa | · | (LRR R | MLRA 14 | |
| | n Sulfide (A4) | | High Chroma S | | | | Polyvalue Below Surface (S8) (LRR K, L) |
| | Layers (A5) | | Loamy Mucky I | | | | Thin Dark Surface (S9) (LRR K, L) |
| | Below Dark Surface | (A11) | Loamy Gleyed | | | 、 (、, ∟) | Iron-Manganese Masses (F12) (LRR K, L, R |
| | rk Surface (A12) | (711) | Depleted Matrix | | 2) | | Piedmont Floodplain Soils (F12) (MLRA 149 |
| | | | | | ·C) | | |
| | ucky Mineral (S1) | | Redox Dark Su | | | | Mesic Spodic (TA6) (MLRA 144A, 145, 149B |
| | eyed Matrix (S4) | | Depleted Dark | | | | Red Parent Material (F21) |
| Sandy Re | | | Redox Depress | | 3) | | Very Shallow Dark Surface (F22) |
| | Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other (Explain in Remarks) |
| Dark Sur | lace (57) | | | | | | |
| ³ Indicators of | hydrophytic vegetati | on and w | etland hydrology mus | st be pre | esent, unl | ess distur | rbed or problematic. |
| | ayer (if observed): | | | | | | |
| Туре: | Rock / B | oulder | | | | | |
| Depth (in | ches): | 0 | | | | | Hydric Soil Present? Yes <u>No X</u> |
| Remarks: | | _ | | | | | |
| No soils colle | cted due to significar | nt rock ou | itcropping and boulde | ers. | | | |
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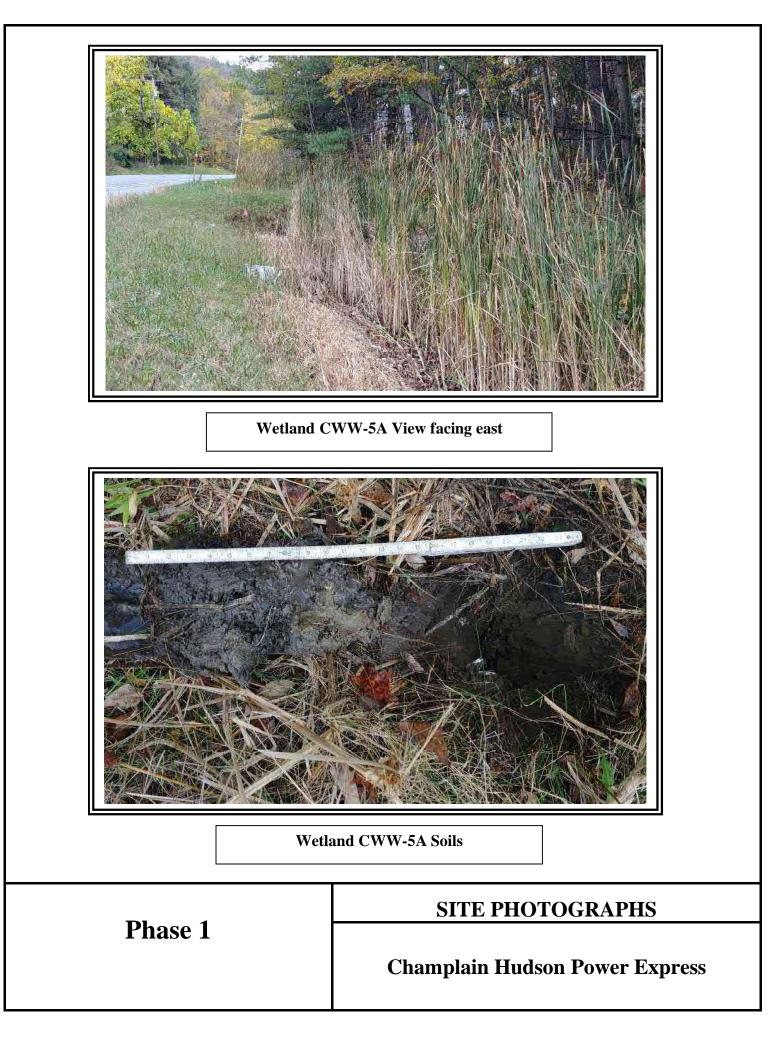


| Project/Site: CHPE | City/County: Dresden / Washington Sampling Date: 10/15/21 |
|---|--|
| Applicant/Owner: TDI | State: NY Sampling Point: WET CWW-5A |
| Investigator(s): C. Scrivner, C. Einstein | Section, Township, Range: |
| | al relief (concave, convex, none): Concave Slope %: 1 |
| Subregion (LRR or MLRA): LRR R Lat: 43-38-28.79N | Long: 73-26-47.32W Datum: WGS 84 |
| Soil Map Unit Name: HLE - Hollis-Charlton association, moderately stee | * |
| | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | |
| Are Vegetation, Soil, or Hydrologysignificantly dist | |
| Are Vegetation, Soil, or Hydrologynaturally problem | |
| SUMMARY OF FINDINGS – Attach site map showing sa | ampling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No |
| Wetland Hydrology Present? Yes X No | If yes, optional Wetland Site ID: Near Flag CWW-5A |
| Remarks: (Explain alternative procedures here or in a separate report.) | |
| Palustrine Emergent Marsh - Cattail Marsh. Edinger classification: Shallc | w Emergent Marsh. |
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| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| X Surface Water (A1) Water-Stained Leaves | |
| X High Water Table (A2) Aquatic Fauna (B13) | Moss Trim Lines (B16) |
| X Saturation (A3) Marl Deposits (B15) | Dry-Season Water Table (C2) |
| Water Marks (B1) Hydrogen Sulfide Odd | or (C1) Crayfish Burrows (C8) |
| Sediment Deposits (B2) Oxidized Rhizosphere | s on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) |
| Drift Deposits (B3) Presence of Reduced | Iron (C4) Stunted or Stressed Plants (D1) |
| Algal Mat or Crust (B4) Recent Iron Reduction | |
| Iron Deposits (B5) Thin Muck Surface (C | |
| Inundation Visible on Aerial Imagery (B7)Other (Explain in Rem | |
| Sparsely Vegetated Concave Surface (B8) | X FAC-Neutral Test (D5) |
| Field Observations: | |
| Surface Water Present? Yes X No Depth (inche | |
| Water Table Present? Yes X No Depth (inche | |
| Saturation Present? Yes X No Depth (inche (includes capillary fringe) | s): 0 Wetland Hydrology Present? Yes X No |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, p | |
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| Remarks: | |
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Sampling Point: WET CWW-5A

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|--|---------------------|----------------------|---------------------|--|
| 1. 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC:(A) |
| 3. 4. | | | | Total Number of Dominant Species Across All Strata: 1 (B) |
| 5. 6. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) |
| 7 | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 83 x 1 = 83 |
| 1. Salix nigra | 3 | No | OBL | FACW species 15 x 2 = 30 |
| 2 | | | | FAC species5 x 3 =15 |
| 3 | | | | FACU species x 4 = |
| 4. | | | | UPL species 0 x 5 = 0 |
| 5. | | | | Column Totals: 103 (A) 128 (B) |
| 6. | | | | Prevalence Index = $B/A = 1.24$ |
| 7. | | | | Hydrophytic Vegetation Indicators: |
| | 3 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% |
| 1. Typha angustifolia | 60 | Yes | OBL | X 3 - Prevalence Index is ≤3.0 ¹ |
| 2. Lythrum salicaria | 15 | No | OBL | 4 - Morphological Adaptations ¹ (Provide supporting |
| 3. Solidago gigantea | | No | FACW | data in Remarks or on a separate sheet) |
| 4. Scirpus atrovirens | 5 | No | OBL | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. Euthamia graminifolia | 5 | No | FAC | |
| 6. Symphyotrichum novae-angliae | 5 | No | FACW | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 7. | | | FACW | Definitions of Vegetation Strata: |
| | | | | Demitions of Vegetation Strata. |
| 8 9 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 10 11 | | | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | | | | Herb – All herbaceous (non-woody) plants, regardless |
| | 100 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | Woody vines – All woody vines greater than 3.28 ft in |
| 1 | | | | height. |
| 2. | | | | |
| 3. | | | | Hydrophytic |
| 4. | | | | Vegetation Present? Yes X No |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a separ | | | | |
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| Profile Desc | ription: (Describe t | o the de | pth needed to docu | ment th | e indica | tor or co | nfirm the absence of indica | ators.) |
|----------------------------|--------------------------|-----------|---|-------------------------|-------------------|------------------|-------------------------------|---|
| Depth | Matrix | | Redox | k Featur | es | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-8 | 10YR 3/1 | 95 | 10YR 4/6 | 5 | С | PL | Loamy/Clayey Pr | ominent redox concentrations |
| 8-16 | 10YR 4/1 | 70 | 10YR 4/6 | 30 | С | М | Mucky Loam/Clay | |
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| Type: C=Co | | etion, RN | I=Reduced Matrix, MS | S=Mask | ed Sand | Grains. | ² Location: PL=Por | e Lining, M=Matrix. blematic Hydric Soils ³ : |
| Histosol (| | | Polyvalue Belov | w Surfac | re (S8) (I | RRR | | 10) (LRR K, L, MLRA 149B) |
| | ipedon (A2) | | MLRA 149B) | | | | | Redox (A16) (LRR K, L, R) |
| Black His | | | Thin Dark Surfa | | (LRR R, | MLRA 1 | | eat or Peat (S3) (LRR K, L, R) |
| Hydroger | n Sulfide (A4) | | High Chroma S | ands (S | 11) (LRF | R K, L) | Polyvalue Belo | w Surface (S8) (LRR K, L) |
| Stratified | Layers (A5) | | Loamy Mucky N | Mineral (| F1) (LRF | R K, L) | Thin Dark Surf | ace (S9) (LRR K, L) |
| Depleted | Below Dark Surface | (A11) | Loamy Gleyed | Matrix (F | -2) | | Iron-Manganes | se Masses (F12) (LRR K, L, R) |
| | rk Surface (A12) | | X Depleted Matrix | | | | | dplain Soils (F19) (MLRA 149B) |
| | ucky Mineral (S1) | | X Redox Dark Su | | | | | (TA6) (MLRA 144A, 145, 149B) |
| | eyed Matrix (S4) | | Depleted Dark | | | | Red Parent Ma | |
| | edox (S5) Matrix (S6) | | <u>?</u> Redox Depress Marl (F10) (LRI | | 3) | | Other (Explain | Dark Surface (F22) |
| Dark Sur | | | | κ κ , ב) | | | | in Kentarkay |
| | | | | | | | | |
| ³ Indicators of | hydrophytic vegetati | on and w | etland hydrology mus | st be pre | sent, unl | ess distu | rbed or problematic. | |
| Restrictive L | ayer (if observed): | | | | | | | |
| Туре: | | | | | | | | |
| Depth (in | ches): | | | | | | Hydric Soil Present? | Yes X No |
| Remarks: | | | | | | | | |
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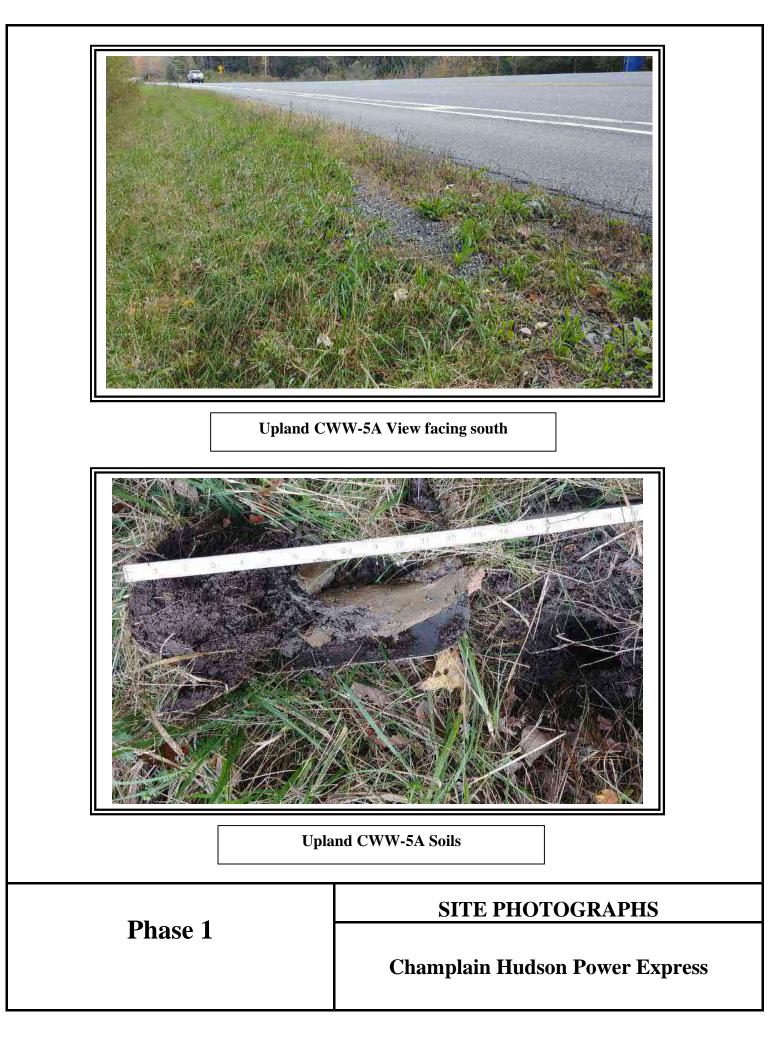
| Project/Site: CHPE | City/County: Dresden / Washington Sampling Date: 10/15/21 |
|--|--|
| Applicant/Owner: TDI | State: NY Sampling Point: UPL CWW-5A |
| Investigator(s): C. Scrivner, C. Einstein | Section, Township, Range: |
| Landform (hillside, terrace, etc.): Hillslope Local re | elief (concave, convex, none): <u>Convex</u> Slope %: <u>2</u> |
| Subregion (LRR or MLRA): LRR R Lat: 43-38-28.81N | Long: <u>73-26-47.49W</u> Datum: <u>WGS 84</u> |
| Soil Map Unit Name: HLE - Hollis-Charlton association, moderately steep an | d steep NWI classification: NA |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes X No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly disturbed | ed? Are "Normal Circumstances" present? Yes X No |
| Are Vegetation, Soil, or Hydrologynaturally problemati | c? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing samp | ling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No _X | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes <u>No X</u> |
| Wetland Hydrology Present? Yes <u>No X</u> | If yes, optional Wetland Site ID: |
| Remarks: (Explain alternative procedures here or in a separate report.) Mowed roadside. | |
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| HYDROLOGY | |

| Wetland Hydrology Indicators: | | | Secondary Indicators (minimum of two required) |
|---|--|-------------------------|--|
| Primary Indicators (minimum of one is require | d; check all that apply) | | Surface Soil Cracks (B6) |
| Surface Water (A1) | Water-Stained Leaves (B9) | Drainage Patterns (B10) | |
| High Water Table (A2) | Aquatic Fauna (B13) | | Moss Trim Lines (B16) |
| Saturation (A3) | Marl Deposits (B15) | | Dry-Season Water Table (C2) |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | | Crayfish Burrows (C8) |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Roo | ots (C3) | Saturation Visible on Aerial Imagery (C9) |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | | Stunted or Stressed Plants (D1) |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils | (C6) | Geomorphic Position (D2) |
| Iron Deposits (B5) | Thin Muck Surface (C7) | | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) | Other (Explain in Remarks) | | Microtopographic Relief (D4) |
| Sparsely Vegetated Concave Surface (B8 | 3) | | FAC-Neutral Test (D5) |
| Field Observations: | | | |
| Surface Water Present? Yes | No X Depth (inches): | | |
| Water Table Present? Yes | No X Depth (inches): | | |
| Saturation Present? Yes | No X Depth (inches): | Wetlan | d Hydrology Present? Yes No X |
| (includes capillary fringe) | | | |
| Describe Recorded Data (stream gauge, mon | itoring well, aerial photos, previous inspec | tions), if a | /ailable: |
| | | ,- | |
| Remarks: | | | |

Sampling Point: UPL CWW-5A

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | | | |
|--|---------------------|----------------------|---------------------|---|--|--|--|
| 1. | | · | | Number of Dominant Species That Are OBL, FACW, or FAC:(A) | | | |
| 3 4 | | · | | Total Number of Dominant Species Across All Strata: <u>2</u> (B) | | | |
| 5. 6. | | · | | Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B) | | | |
| 7. | | | | Prevalence Index worksheet: | | | |
| | | =Total Cover | | Total % Cover of: Multiply by: | | | |
| Sapling/Shrub Stratum (Plot size: 15' |) | | | OBL species 0 x 1 = 0 | | | |
| 1 | | | | FACW species 0 x 2 = 0 | | | |
| 2 | | | | FAC species 25 x 3 = 75 | | | |
| 3. | | | | FACU species x 4 = 180 | | | |
| 4 | | | | UPL species 25 x 5 = 125 | | | |
| 5 | | | | Column Totals: 95 (A) 380 (B) | | | |
| 6 | | | | Prevalence Index = B/A = 4.00 | | | |
| 7 | | | | Hydrophytic Vegetation Indicators: | | | |
| | | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation | | | |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% | | | |
| 1. Lolium pratense | 25 | Yes | FACU | 3 - Prevalence Index is ≤3.0 ¹ | | | |
| 2. <u>Setaria pumila</u> | 25 | Yes | FAC | 4 - Morphological Adaptations ¹ (Provide supporting | | | |
| 3. <u>Rubia peregrina</u> | 15 | No | UPL | data in Remarks or on a separate sheet) | | | |
| 4. Phleum pratense | 10 | No | FACU | Problematic Hydrophytic Vegetation ¹ (Explain) | | | |
| 5. Symphyotrichum ericoides | 5 | No | FACU | ¹ Indicators of hydric soil and wetland hydrology must be | | | |
| 6. Pastinaca sativa | 5 | No | UPL | present, unless disturbed or problematic. | | | |
| 7. Cichorium intybus | 5 | No | FACU | Definitions of Vegetation Strata: | | | |
| 8. Vicia cracca | 5 | No | UPL | Tree – Woody plants 3 in. (7.6 cm) or more in diameter | | | |
| 9. | | | | at breast height (DBH), regardless of height. | | | |
| 10. | | | | Senting (shout) . Weady plants loss than 2 in DDU | | | |
| 11. | | | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. | | | |
| 12. | | | | | | | |
| | 95 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. | | | |
| Woody Vine Stratum (Plot size: 30' |) | - | | | | | |
| 1 | | | | Woody vines – All woody vines greater than 3.28 ft in height. | | | |
| 2. | | · | | | | | |
| 3. | | · | | Hydrophytic | | | |
| 4. | | | | Vegetation Present? Yes No X | | | |
| | | =Total Cover | | | | | |
| Remarks: (Include photo numbers here or on a sep | arate sheet) | | | | | | |
| Remarks. (include photo numbers here of on a sep | arate sheet.) | | | | | | |
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| Profile Desc | ription: (Describe t | o the dep | th needed to docu | ment th | e indicat | or or co | nfirm the absence of i | indicators.) | |
|----------------|---|---|------------------------|-----------------|-------------------|------------------|--|------------------------------|-----------------|
| Depth | Matrix | | Redo | x Featur | es | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Rema | rks |
| 0-5 | 10YR 3/1 | 100 | | | | | Loamy/Clayey | | |
| 5-12 | 10YR 5/2 | 90 | 10YR 5/8 | 10 | С | М | Mucky Loam/Clay | Prominent redox | concentrations |
| | | | | | | | | | |
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| | | | | | | | | | |
| | oncentration, D=Depl | etion RM | -Reduced Matrix M | IS-Mask | ed Sand | Grains | ² Location: Pl | L=Pore Lining, M=Ma | atrix |
| Hydric Soil I | | | | | | Oranio. | | or Problematic Hydr | |
| Histosol | | | Polyvalue Belo | w Surfa | ce (S8) (I | LRR R. | | ck (A10) (LRR K, L , | |
| | vipedon (A2) | | MLRA 149B | | () (- | , | | airie Redox (A16) (L | |
| Black His | | | Thin Dark Surf | | (LRR R | MLRA | | cky Peat or Peat (S3 | |
| | n Sulfide (A4) | | High Chroma S | | | | | | |
| | Layers (A5) | | Loamy Mucky | | | | Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) | | |
| | Below Dark Surface | (A11) | Loamy Gleyed | | | , _/ | Iron-Manganese Masses (F12) (LRR K, L, R) | | |
| | irk Surface (A12) | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | X Depleted Matri | |) | | | t Floodplain Soils (F | |
| | lucky Mineral (S1) | | Redox Dark Su | | 6) | | | podic (TA6) (MLRA 1 | |
| | leyed Matrix (S4) | | Depleted Dark | | | | | ent Material (F21) | ++A, 140, 140D) |
| | edox (S5) | | Redox Depress | | | | | · · , | 222) |
| | | | | | 0) | | Very Shallow Dark Surface (F22) Other (Explain in Remarks) | | |
| | Matrix (S6) face (S7) | | Marl (F10) (LR | r r , l) | | | Other (E) | xplain in Remarks) | |
| | | | | | | | | | |
| | hydrophytic vegetati ayer (if observed): | ion and we | etland hydrology mu | st be pre | esent, un | less dist | urbed or problematic. | | |
| | Gravel | / Fill | | | | | | | |
| - | nches): | 12 | | | | | Hydric Soil Presen | nt? Yes X | No |
| Remarks: | · | | | | | | | | |
| No soils colle | ected due to significa | nt rock ou | tcropping and bould | lers. | | | | | |
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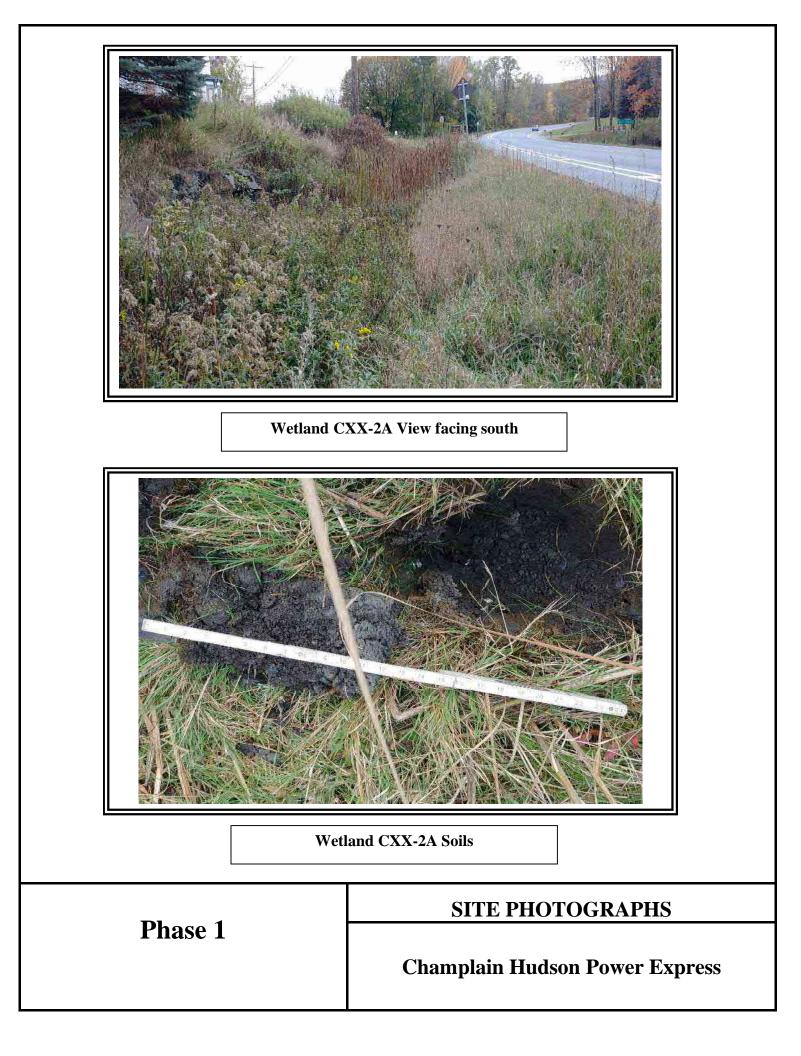


| Project/Site: CHPE | City/County: Dresden / Washington Sampling Date: 10/15/21 |
|---|---|
| Applicant/Owner: TDI | State: NY Sampling Point: WET CXX-2A |
| Investigator(s): C. Scrivner, C. Einstein | Section, Township, Range: |
| Landform (hillside, terrace, etc.): Linear ditch Local | relief (concave, convex, none): Concave Slope %: 2 |
| Subregion (LRR or MLRA): LRR R Lat: 43-38-15.30N | Long: 73-26-45.60W Datum: WGS 84 |
| Soil Map Unit Name: HSDK - Hoosic gravelly sandy loam, rolling and hilly | NWI classification: PEM1 |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes X No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly disturb | |
| | |
| Are Vegetation, Soil, or Hydrologynaturally problema | |
| SUMMARY OF FINDINGS – Attach site map showing sam | T |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No |
| Wetland Hydrology Present? Yes X No | If yes, optional Wetland Site ID: Near Flag CXX-2A |
| Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh - Cattail Marsh. Edinger classification: Shallow | Emergent Marsh. |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1)Water-Stained Leaves (E | B9) X Drainage Patterns (B10) |
| High Water Table (A2) Aquatic Fauna (B13) | Moss Trim Lines (B16) |
| X Saturation (A3) Marl Deposits (B15) | Dry-Season Water Table (C2) |
| Water Marks (B1) Hydrogen Sulfide Odor (| |
| Sediment Deposits (B2)Oxidized Rhizospheres of Deduced Irr | |
| Drift Deposits (B3) Presence of Reduced Irc Algal Mat or Crust (B4) Recent Iron Reduction in | |
| Iron Deposits (B5) Thin Muck Surface (C7) | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark | |
| Sparsely Vegetated Concave Surface (B8) | X FAC-Neutral Test (D5) |
| Field Observations: | |
| Surface Water Present? Yes No X Depth (inches): | |
| Water Table Present? Yes No X Depth (inches): | |
| Saturation Present? Yes X No Depth (inches): | 8 Wetland Hydrology Present? Yes X No |
| (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre | vious inspections), if available: |
| Remarks: | |
| Remarks. | |
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Sampling Point: WET CXX-2A

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | | | |
|--|---------------------|----------------------|---------------------|---|--|--|--|
| 1. 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC:1 (A) | | | |
| 3 | | | | Total Number of Dominant Species Across All Strata: 1 (B) | | | |
| 5 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) | | | |
| 7. | | | | Prevalence Index worksheet: | | | |
| | | =Total Cover | | Total % Cover of: Multiply by: | | | |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 93 x 1 = 93 | | | |
| 1. Salix nigra | 3 | No | OBL | FACW species 10 x 2 = 20 | | | |
| 2. | | | | FAC species 0 x 3 = 0 | | | |
| 3 | | | | FACU species 0 x 4 = 0 | | | |
| 4. | | | | UPL species 0 x 5 = 0 | | | |
| 5. | | | | Column Totals: 103 (A) 113 (B) | | | |
| 6. | | | | Prevalence Index = B/A = 1.10 | | | |
| 7. | | | | Hydrophytic Vegetation Indicators: | | | |
| | 3 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation | | | |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% | | | |
| 1. Typha angustifolia | 80 | Yes | OBL | X 3 - Prevalence Index is ≤3.0 ¹ | | | |
| 2. Solidago gigantea | 10 | No | FACW | 4 - Morphological Adaptations ¹ (Provide supporting | | | |
| 3. Lythrum salicaria | | No | OBL | data in Remarks or on a separate sheet) | | | |
| 4. | | | OBL | Problematic Hydrophytic Vegetation ¹ (Explain) | | | |
| 5. | | | | | | | |
| | | | | ¹ Indicators of hydric soil and wetland hydrology must be | | | |
| 6. | | | | present, unless disturbed or problematic. | | | |
| 7 | | | | Definitions of Vegetation Strata: | | | |
| 8 9 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. | | | |
| 10 | | | | Sapling/shrub – Woody plants less than 3 in. DBH | | | |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. | | | |
| 12 | | | | Herb – All herbaceous (non-woody) plants, regardless | | | |
| Weady Vine Stratum (Plat size) 201 | 100 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. | | | |
| <u>Woody Vine Stratum</u> (Plot size: <u>30'</u>) 1. | | | | Woody vines – All woody vines greater than 3.28 ft in height. | | | |
| | | | | | | | |
| 2 | | · | | Hydrophytic | | | |
| 3 | | | | Vegetation | | | |
| 4. | | | | Present? Yes <u>X</u> No | | | |
| | | =Total Cover | | | | | |
| Remarks: (Include photo numbers here or on a separa | ate sheet.) | | | | | | |
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| Profile Desc | cription: (Describe | to the dep | th needed to docu | iment th | e indica | or or co | nfirm the absence of indic | ators.) |
|---------------------------|------------------------|------------|--------------------|-----------|-------------------|------------------|----------------------------|--|
| Depth | Matrix | | Redo | x Featur | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-2 | 10YR 3/1 | 65 | 10YR 4/4 | 45 | С | PL | Loamy/Clayey | Distinct redox concentrations |
| 2-9 | 10YR 3/1 | 95 | 10YR 3/6 | 5 | С | М | Sandy | |
| 9-12 | 10YR 5/1 | 95 | 10YR 4/6 | 5 | С | М | Sandy P | rominent redox concentrations |
| | | | | | | | | |
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| 4 | | · | | | | | | |
| | oncentration, D=Depl | etion, RM= | Reduced Matrix, M | S=Mask | ed Sand | Grains. | | re Lining, M=Matrix. |
| Hydric Soil I Histosol | | | Polyvalue Belo | w Surfac | n (88) (I | | | oblematic Hydric Soils ³ : 10) (LRR K, L, MLRA 149B) |
| | bipedon (A2) | | MLRA 149B | | Je (00) (L | .nn n, | | Redox (A16) (LRR K, L, R) |
| Black His | | | Thin Dark Surf | , | (LRR R. | MLRA 1 | | Peat or Peat (S3) (LRR K, L, R) |
| | n Sulfide (A4) | | High Chroma S | . , | · · | | · | ow Surface (S8) (LRR K, L) |
| | d Layers (A5) | | Loamy Mucky | | | | | rface (S9) (LRR K, L) |
| | d Below Dark Surface | e (A11) | Loamy Gleyed | | | , _, | | ese Masses (F12) (LRR K, L, R) |
| | ark Surface (A12) | | Depleted Matri | | , | | | odplain Soils (F19) (MLRA 149B) |
| | lucky Mineral (S1) | | Redox Dark Su | | 6) | | | (TA6) (MLRA 144A , 145 , 149B) |
| | leyed Matrix (S4) | | Depleted Dark | ` | , | | Red Parent M | |
| X Sandy R | • • • • | | ? Redox Depres | | | | | Dark Surface (F22) |
| | Matrix (S6) | | Marl (F10) (LR | • | -, | | | n in Remarks) |
| | rface (S7) | | 、 /、 | . , | | | 、 . | , |
| | | | | | | | | |
| | f hydrophytic vegetati | ion and we | tland hydrology mu | st be pre | esent, unl | ess distu | rbed or problematic. | |
| | Layer (if observed): | | | | | | | |
| Туре: | Rock / C | | | | | | | |
| Depth (ir | nches): | 12 | | | | | Hydric Soil Present? | Yes X No |
| Remarks: | | | | | | | | |
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| Project/Site: CHPE | City/County: Dresden / Washington Sampling Date: 10/15/21 | | | | |
|--|--|--|--|--|--|
| Applicant/Owner: TDI | State: NY Sampling Point: UPL CXX-2A | | | | |
| Investigator(s): C. Scrivner, C. Einstein | Section, Township, Range: | | | | |
| | relief (concave, convex, none): Convex Slope %: 1 | | | | |
| Subregion (LRR or MLRA): LRR R Lat: 43-38-15.33N | Long: 73-26-45.72W Datum: WGS 84 | | | | |
| Soil Map Unit Name: HSDK - Hoosic gravelly sandy loam, rolling and hilly | | | | | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes X No (If no, explain in Remarks.) | | | | |
| Are Vegetation, Soil, or Hydrology significantly distur | | | | | |
| | | | | | |
| Are Vegetation, Soil, or Hydrologynaturally problem: | | | | | |
| SUMMARY OF FINDINGS – Attach site map showing sar | npling point locations, transects, important features, etc. | | | | |
| Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes X No | Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: | | | | |
| Remarks: (Explain alternative procedures here or in a separate report.) | | | | | |
| Mowed roadside. | | | | | |
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| HYDROLOGY | | | | | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) | | | | |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) | | | | |
| Surface Water (A1)Water-Stained Leaves (| (B9) Drainage Patterns (B10) | | | | |
| High Water Table (A2) Aquatic Fauna (B13) | Moss Trim Lines (B16) | | | | |
| Saturation (A3)Marl Deposits (B15) | Dry-Season Water Table (C2) | | | | |
| Water Marks (B1) Hydrogen Sulfide Odor | (C1) Crayfish Burrows (C8) | | | | |
| Sediment Deposits (B2) Oxidized Rhizospheres | | | | | |
| Drift Deposits (B3) Presence of Reduced Ir | | | | | |
| Algal Mat or Crust (B4) Recent Iron Reduction i | n Tilled Soils (C6) Geomorphic Position (D2) | | | | |
| Iron Deposits (B5) Thin Muck Surface (C7) | Shallow Aquitard (D3) | | | | |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remain | rks) Microtopographic Relief (D4) | | | | |
| Sparsely Vegetated Concave Surface (B8) | FAC-Neutral Test (D5) | | | | |
| Field Observations: | | | | | |
| Surface Water Present? Yes No X Depth (inches) | | | | | |
| Water Table Present? Yes No X Depth (inches) | | | | | |
| Saturation Present? Yes No X Depth (inches) | Wetland Hydrology Present? Yes No X | | | | |
| (includes capillary fringe) | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre | evious inspections), if available: | | | | |
| | | | | | |
| Remarks: | | | | | |
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Sampling Point: UPL CXX-2A

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | | | |
|---|---------------------|----------------------|---------------------|--|--|--|--|
| 1. 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC:0 (A) | | | |
| 3. 4. | | | | Total Number of Dominant Species Across All Strata:1(B) | | | |
| 5 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: | | | |
| 7. | | | | Prevalence Index worksheet: | | | |
| | | =Total Cover | | Total % Cover of: Multiply by: | | | |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 0 x 1 = 0 | | | |
| 1 | | | | FACW species 0 x 2 = 0 | | | |
| 2 | | | | FAC species 10 x 3 = 30 | | | |
| 3 | | | | FACU species x 4 = 280 | | | |
| 4. | | | | UPL species 20 x 5 = 100 | | | |
| 5. | | | | Column Totals: 100 (A) 410 (B) | | | |
| 6. | | | | Prevalence Index = $B/A = 4.10$ | | | |
| 7. | | | | Hydrophytic Vegetation Indicators: | | | |
| | | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation | | | |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% | | | |
| 1. Lolium pratense | 60 | Yes | FACU | 3 - Prevalence Index is ≤3.0 ¹ | | | |
| 2. Cichorium intybus | 10 | No | FACU | 4 - Morphological Adaptations ¹ (Provide supporting | | | |
| 3. Setaria pumila | 10 | No | FAC | data in Remarks or on a separate sheet) | | | |
| 4. Daucus carota | 10 | No | UPL | Problematic Hydrophytic Vegetation ¹ (Explain) | | | |
| 5. Vicia cracca | 5 | No | UPL | | | | |
| 6. Pastinaca sativa | 5 | No | UPL | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. | | | |
| 7 | | | | Definitions of Vegetation Strata: | | | |
| 8. | | | | | | | |
| 9. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. | | | |
| 10 | | | | Sapling/shrub – Woody plants less than 3 in. DBH | | | |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. | | | |
| 12 | | | | Herb – All herbaceous (non-woody) plants, regardless | | | |
| | 100 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. | | | |
| Woody Vine Stratum (Plot size:30') 1. | | | | Woody vines – All woody vines greater than 3.28 ft in height. | | | |
| 2 | | | | Toght | | | |
| | | | | Hydrophytic | | | |
| | | | | Vegetation Present? Yes No X | | | |
| 4. | | | | Present? Yes <u>No X</u> | | | |
| | | =Total Cover | | | | | |
| Remarks: (Include photo numbers here or on a separ | ate sheet.) | | | | | | |
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| Profile Desc | ription: (Describe | to the dep | th needed to docu | ument th | e indica | tor or co | nfirm the absence of indicators.) | | |
|----------------------------|------------------------|-------------|------------------------|-----------|--------------------|------------------|---|--------------------|--|
| Depth | Matrix | | Redo | ox Featur | res | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture Re | emarks | |
| 0-3 | 10YR 2/1 | 100 | | | | | Sandy | | |
| 3-13 | 10YR 3/2 | 95 | 2.5YR 3/3 | 5 | С | М | Sandy Prominent red | lox concentrations | |
| | | | | | | | | | |
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| ¹ Type: C=Co | oncentration, D=Depl | etion, RM= | Reduced Matrix, M | IS=Mask | ed Sand | Grains. | ² Location: PL=Pore Lining, M= | | |
| Hydric Soil | | | | | | | Indicators for Problematic H | | |
| Histosol | . , | | Polyvalue Belo | | ce (S8) (I | .RR R, | 2 cm Muck (A10) (LRR K, | | |
| · · | pipedon (A2) | | MLRA 1498 | , | | | Coast Prairie Redox (A16) | | |
| Black Hi | . , | | Thin Dark Surf | | | | | | |
| | n Sulfide (A4) | | High Chroma | | | | Polyvalue Below Surface (S8) (LRR K, L) | | |
| | Layers (A5) | | Loamy Mucky | | | R K, L) | Thin Dark Surface (S9) (LRR K, L) | | |
| · | d Below Dark Surface | e (A11) | Loamy Gleyed | | F2) | | Iron-Manganese Masses (| | |
| | ark Surface (A12) | | Depleted Matri | | | | Piedmont Floodplain Soils | | |
| | lucky Mineral (S1) | | Redox Dark S | | , | | Mesic Spodic (TA6) (MLR | | |
| | ileyed Matrix (S4) | | Depleted Dark | | | | Red Parent Material (F21) | | |
| X Sandy R | | | Redox Depres | | 8) | | Very Shallow Dark Surface | | |
| | Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other (Explain in Remarks | 5) | |
| Dark Su | rface (S7) | | | | | | | | |
| ³ Indicators of | f hydrophytic vegetati | ion and we | tland bydrology mu | et ha nra | seant un | occ dictu | rbed or problematic | | |
| | Layer (if observed): | | tiand hydrology mu | st be pre | ssent, un | C35 UI31U | | | |
| Type: | Rock / Gr | avel Fill | | | | | | | |
| Depth (ir | nches): | 13 | | | | | Hydric Soil Present? Yes | X No | |
| Remarks: | · | | | | | | | | |
| | ected due to significa | nt rock out | cropping and bould | ers. | | | | | |
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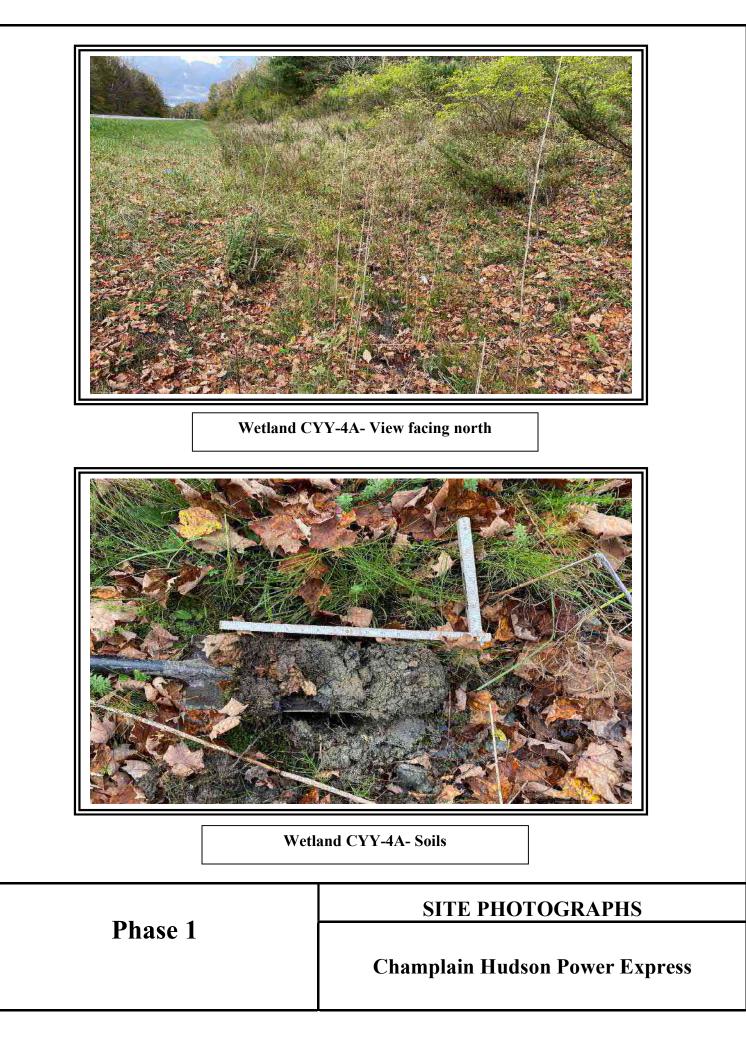


| Project/Site: CHPE | City/County: Dresden / Washington Sampling Date: 10/18/21 | | | | |
|---|--|--|--|--|--|
| Applicant/Owner: TDI | State: NY Sampling Point: WET CYY-4A | | | | |
| Investigator(s): J. Greaves, C. Scrivner, N. Frazer | Section, Township, Range: | | | | |
| | relief (concave, convex, none): Concave Slope %: 5 | | | | |
| Subregion (LRR or MLRA): LRR R Lat: 43-37-41.60N | Long: 73-26-41.31W Datum: WGS 84 | | | | |
| | | | | | |
| Soil Map Unit Name: <u>CHC - Charlton fine sandy loam, 3 to 8 percent slopes</u> | | | | | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes X No (If no, explain in Remarks.) | | | | |
| Are Vegetation, Soil, or Hydrologysignificantly disturb | bed? Are "Normal Circumstances" present? Yes X No | | | | |
| Are Vegetation, Soil, or Hydrologynaturally problema | atic? (If needed, explain any answers in Remarks.) | | | | |
| SUMMARY OF FINDINGS – Attach site map showing sam | pling point locations, transects, important features, etc. | | | | |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area | | | | |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No | | | | |
| Wetland Hydrology Present? Yes X No | If yes, optional Wetland Site ID: Near Flag CYY-4A | | | | |
| | | | | | |
| HYDROLOGY | | | | | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) | | | | |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) | | | | |
| X Surface Water (A1) X Water-Stained Leaves (E | | | | | |
| X High Water Table (A2) Aquatic Fauna (B13) | Moss Trim Lines (B16) | | | | |
| Saturation (A3)Marl Deposits (B15) | Dry-Season Water Table (C2) | | | | |
| Water Marks (B1)Hydrogen Sulfide Odor (| | | | | |
| Sediment Deposits (B2)Oxidized Rhizospheres of | | | | | |
| Drift Deposits (B3) Presence of Reduced Irc | | | | | |
| Algal Mat or Crust (B4)Recent Iron Reduction in | | | | | |
| Iron Deposits (B5) Thin Muck Surface (C7) | | | | | |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark | | | | | |
| Sparsely Vegetated Concave Surface (B8) | X FAC-Neutral Test (D5) | | | | |
| Field Observations: | | | | | |
| Surface Water Present? Yes X No Depth (inches): Water Table Present? Yes X No Depth (inches): | | | | | |
| Water Table Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): | | | | | |
| (includes capillary fringe) | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre | vious inspections), if available: | | | | |
| | | | | | |
| | | | | | |
| Remarks: | | | | | |
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Sampling Point: WET CYY-4A

| Tree Stratum (Plot size: <u>30'</u>) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | | | |
|--|---------------------|----------------------|---------------------|---|--|--|--|
| 1. | | · | | Number of Dominant Species That Are OBL, FACW, or FAC:(A) | | | |
| 3 4 | | | | Total Number of Dominant Species Across All Strata: <u>2</u> (B) | | | |
| 5. 6. | | · | | Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) | | | |
| 7 | | | | Prevalence Index worksheet: | | | |
| | | =Total Cover | | Total % Cover of: Multiply by: | | | |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species <u>67</u> x 1 = <u>67</u> | | | |
| 1. <u>Salix nigra</u> | 2 | No | OBL | FACW species <u>5</u> x 2 = <u>10</u> | | | |
| 2 | | | | FAC species 25 x 3 = 75 | | | |
| 3 | | | | FACU species x 4 = | | | |
| 4 | | | | UPL species 0 x 5 = 0 | | | |
| 5 | | | | Column Totals: 97 (A) 152 (B) | | | |
| 6 | | | | Prevalence Index = B/A = 1.57 | | | |
| 7 | | | | Hydrophytic Vegetation Indicators: | | | |
| | 2 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation | | | |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% | | | |
| 1. Lythrum salicaria | 55 | Yes | OBL | X_3 - Prevalence Index is ≤3.0 ¹ | | | |
| 2. Equisetum arvense | 25 | Yes | FAC | 4 - Morphological Adaptations ¹ (Provide supporting | | | |
| 3. Epilobium coloratum | 5 | No | OBL | data in Remarks or on a separate sheet) | | | |
| 4. Symphyotrichum novae-angliae | 5 | No | FACW | Problematic Hydrophytic Vegetation ¹ (Explain) | | | |
| 5. Typha angustifolia | 5 | No | OBL | | | | |
| 6. | | | | ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. | | | |
| 7. | | | | Definitions of Vegetation Strata: | | | |
| 8. | | | | | | | |
| 9. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. | | | |
| 10 11 | | · | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. | | | |
| 12 | 95 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. | | | |
| Woody Vine Stratum (Plot size: 30') | | | | Woody vines – All woody vines greater than 3.28 ft in | | | |
| 1 | | · | ······· | height. | | | |
| 2 | | · | | Hydrophytic | | | |
| 3. | | · | | Vegetation | | | |
| 4 | | · | | Present? Yes X No | | | |
| | | =Total Cover | | | | | |
| Remarks: (Include photo numbers here or on a separ | ate sheet.) | | | | | | |
| | | | | | | | |

| Profile Desc | ription: (Describe t | to the de | | | | tor or co | onfirm the absence of | indicators.) | |
|----------------------------|----------------------|-----------|---------------------|-----------|--------------------|------------------|---|--|--|
| Depth | Matrix | | | x Featur | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-3 | 10YR 2/1 | 98 | 10YR 4/6 | 2 | С | PL | Sandy | Prominent redox concentrations | |
| 3-16 | 10YR 4/1 | 55 | 10YR 5/3 | 30 | С | Μ | Sandy | Distinct redox concentrations | |
| | | | 10YR 4/6 | 15 | С | Μ | | Prominent redox concentrations | |
| | | | | | | | | | |
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| | | | | | | | | | |
| | oncentration, D=Depl | etion RM | -Reduced Matrix M | S-Mask | ed Sand | Grains | ² Location: P | L=Pore Lining, M=Matrix. | |
| Hydric Soil I | | | | | ou ounu | oranio. | | or Problematic Hydric Soils ³ : | |
| Histosol | (A1) | | Polyvalue Belo | w Surfac | ce (S8) (I | _RR R, | 2 cm Mu | uck (A10) (LRR K, L, MLRA 149B) | |
| Histic Ep | ipedon (A2) | | MLRA 149B | 5) | | | ? Coast Pr | rairie Redox (A16) (LRR K, L, R) | |
| Black His | stic (A3) | | X Thin Dark Surf | ace (S9) | (LRR R, | , MLRA 1 | 1 49B) 5 cm Mu | ucky Peat or Peat (S3) (LRR K, L, R) | |
| | n Sulfide (A4) | | High Chroma S | Sands (S | 11) (LRF | R K, L) | Polyvalu | e Below Surface (S8) (LRR K, L) | |
| Stratified | Layers (A5) | | Loamy Mucky | Mineral (| F1) (LRF | R K, L) | Thin Dar | rk Surface (S9) (LRR K, L) | |
| Depleted | Below Dark Surface | e (A11) | Loamy Gleyed | Matrix (F | -2) | | Iron-Manganese Masses (F12) (LRR K, L, R) | | |
| Thick Da | rk Surface (A12) | | Depleted Matri | x (F3) | | | Piedmor | nt Floodplain Soils (F19) (MLRA 149B) | |
| Sandy M | lucky Mineral (S1) | | Redox Dark Su | urface (F | 6) | | Mesic S | podic (TA6) (MLRA 144A, 145, 149B) | |
| Sandy G | leyed Matrix (S4) | | Depleted Dark | Surface | (F7) | | Red Par | ent Material (F21) | |
| Sandy R | edox (S5) | | Redox Depress | sions (F8 | 3) | | Very Sha | allow Dark Surface (F22) | |
| ? Stripped | Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other (E | xplain in Remarks) | |
| Dark Sur | face (S7) | | | | | | | | |
| ³ Indicators of | hydrophytic vegetati | ion and w | etland hydrology mu | st he nre | sent unl | ess distu | urbed or problematic | | |
| | ayer (if observed): | | eliand hydrology ma | st be pre | Sent, un | 033 01310 | | | |
| Туре: | | | | | | | | | |
| Depth (in | nches): | | | | | | Hydric Soil Preser | nt? Yes X No | |
| Remarks: | | | | | | | • | | |
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| Project/Site: CHPE | (| City/County: Dresden/Washington | Sampling Date: 10/18/21 | | | | | |
|---|---------------------------|---|----------------------------|--|--|--|--|--|
| Applicant/Owner: TDI | | State: NY | Sampling Point: CYY-4A Upl | | | | | |
| Investigator(s): N. Frazer, J. Greaves, C. Scrivner | | Section, Township, Range: | | | | | | |
| Landform (hillside, terrace, etc.): hillslope | Local re | lief (concave, convex, none): <u>none</u> | Slope %: 2 | | | | | |
| Subregion (LRR or MLRA): LRR R | Lat: 43-37-40.50N | Long: <u>73-26-41.5W</u> | Datum: | | | | | |
| Soil Map Unit Name: Charlton fine sandy loam | | NWI classification: | N/A | | | | | |
| Are climatic / hydrologic conditions on the site typica | al for this time of year? | Yes <u>x</u> No (If no, e | explain in Remarks.) | | | | | |
| Are Vegetation, Soil, or Hydrology | significantly disturbe | ed? Are "Normal Circumstances" pres | ent? Yes <u>x</u> No | | | | | |
| Are Vegetation, Soil, or Hydrology | naturally problemati | c? (If needed, explain any answers ir | n Remarks.) | | | | | |
| SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. | | | | | | | | |
| Hydrophytic Vegetation Present? Yes | No X | Is the Sampled Area | | | | | | |
| Hydric Soil Present? Yes | X No | within a Wetland? Yes | No <u>X</u> | | | | | |
| Wetland Hydrology Present? Yes | X No | If yes, optional Wetland Site ID: | | | | | | |

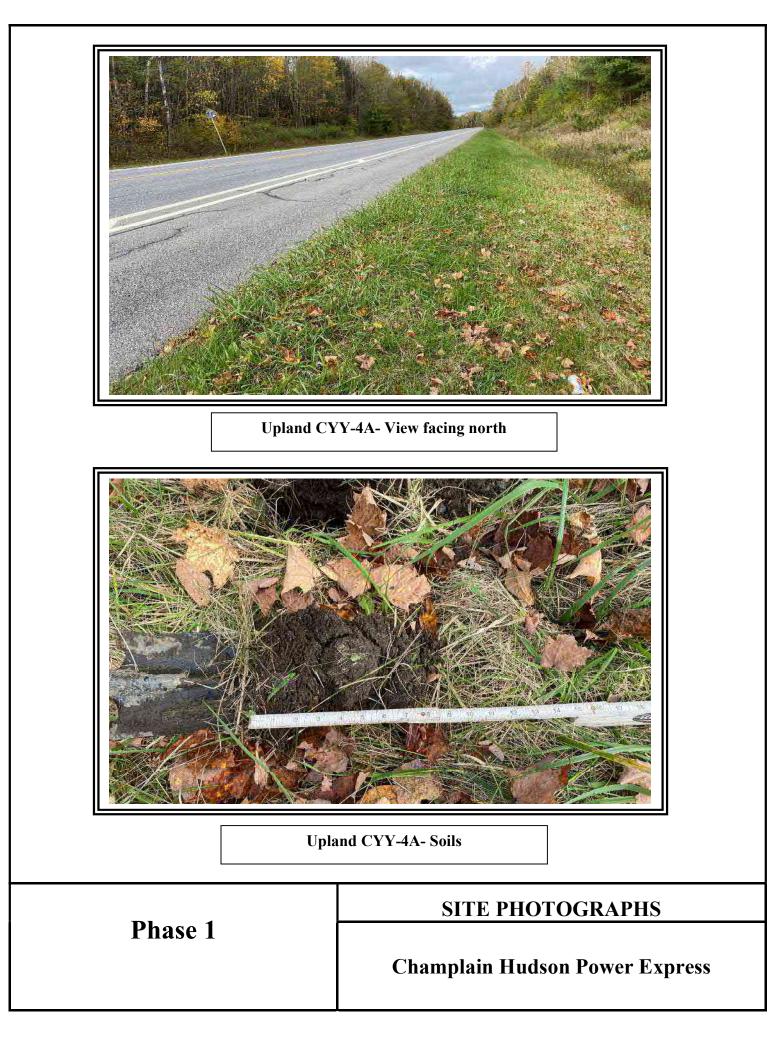
Remarks: (Explain alternative procedures here or in a separate report.) Mowed roadside.

HYDROLOGY

| Wetland Hydrology Indicators: | | | Secondary Indicators (minimum of two required) |
|---|--|---------------|--|
| Primary Indicators (minimum of one is require | ed; check all that apply) | | Surface Soil Cracks (B6) |
| Surface Water (A1) | Water-Stained Leaves (B9) | | Drainage Patterns (B10) |
| High Water Table (A2) | Aquatic Fauna (B13) | | Moss Trim Lines (B16) |
| Saturation (A3) | Marl Deposits (B15) | | Dry-Season Water Table (C2) |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | | Crayfish Burrows (C8) |
| Sediment Deposits (B2) | x Oxidized Rhizospheres on Living Ro | ots (C3) | Saturation Visible on Aerial Imagery (C9) |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | | Stunted or Stressed Plants (D1) |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils | s (C6) | Geomorphic Position (D2) |
| Iron Deposits (B5) | Thin Muck Surface (C7) | | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) |) Other (Explain in Remarks) | | Microtopographic Relief (D4) |
| Sparsely Vegetated Concave Surface (B | 8) | | FAC-Neutral Test (D5) |
| Field Observations: | | | |
| Surface Water Present? Yes | No x Depth (inches): | | |
| Water Table Present? Yes | No x Depth (inches): | | |
| Saturation Present? Yes | No x Depth (inches): | Wetlan | d Hydrology Present? Yes X No |
| (includes capillary fringe) | | | |
| | | | |
| Describe Recorded Data (stream gauge, mor | nitoring well, aerial photos, previous inspe | ctions), if a | available: |
| | nitoring well, aerial photos, previous inspe | ctions), if a | available: |
| | nitoring well, aerial photos, previous inspe | ctions), if a | available: |
| | nitoring well, aerial photos, previous inspe | ctions), if a | available: |
| Describe Recorded Data (stream gauge, mor | nitoring well, aerial photos, previous inspe | ctions), if a | available: |
| Describe Recorded Data (stream gauge, mor | nitoring well, aerial photos, previous inspe | ctions), if a | available: |
| Describe Recorded Data (stream gauge, mor | nitoring well, aerial photos, previous inspe | ctions), if a | available: |
| Describe Recorded Data (stream gauge, mor | nitoring well, aerial photos, previous inspe | ctions), if a | available: |
| Describe Recorded Data (stream gauge, mor | nitoring well, aerial photos, previous inspe | ctions), if a | available: |
| Describe Recorded Data (stream gauge, mor | nitoring well, aerial photos, previous inspe | ctions), if a | available: |
| Describe Recorded Data (stream gauge, mor | nitoring well, aerial photos, previous inspe | ctions), if a | available: |
| Describe Recorded Data (stream gauge, mor | nitoring well, aerial photos, previous inspe | ctions), if a | available: |

| | | to the dep | | | | tor or c | onfirm the absence of indicators.) | |
|----------------------------|--|------------|--------------------------------|-----------|-------------------|---------------------|---|----------------------------|
| Depth (inches) | Matrix | 0/ | | x Featur | | Loc ² | Touturo | marka |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | LOC | Texture Rer | narks |
| 0-3 | 10YR 2/1 | 100 | | | | | Loamy/Clayey with | roots |
| 3-9 | 10YR 3/1 | 88 | 5YR 4/6 | 2 | C | PL | Sandy Prominent redo | ox concentrations |
| | | | 10YR 4/6 | 10 | С | M | with | gravel |
| | | | | | | | | |
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| | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=Depl | etion, RM | =Reduced Matrix, N | /IS=Mas | ked Sand | Grains. | ² Location: PL=Pore Lining, M= | Matrix. |
| Hydric Soil | | · · · · · | | | | | Indicators for Problematic Hy | |
| Histosol | (A1) | | Polyvalue Belo | w Surfa | ce (S8) (| LRR R, | 2 cm Muck (A10) (LRR K , | L, MLRA 149B) |
| Histic Ep | pipedon (A2) | | MLRA 149B |) | | | Coast Prairie Redox (A16) | (LRR K, L, R) |
| Black Hi | stic (A3) | | Thin Dark Surf | ace (S9) |) (LRR R | , MLRA [·] | 49B)5 cm Mucky Peat or Peat (| S3) (LRR K, L, R) |
| | n Sulfide (A4) | | High Chroma S | - | | | Polyvalue Below Surface (S | |
| | d Layers (A5) | | Loamy Mucky | | | R K, L) | Thin Dark Surface (S9) (LF | |
| · · | d Below Dark Surface | e (A11) | Loamy Gleyed | | F2) | | Iron-Manganese Masses (F | |
| | ark Surface (A12) | | Depleted Matri | | · C \ | | Piedmont Floodplain Soils | |
| | lucky Mineral (S1) Gleyed Matrix (S4) | | Redox Dark Su Depleted Dark | | | | Mesic Spodic (TA6) (MLRA Red Parent Material (F21) | A 144A, 145, 149B) |
| X Sandy C | | | Redox Depres | | | | Very Shallow Dark Surface | (F22) |
| | Matrix (S6) | | Marl (F10) (LR | | 5) | | Other (Explain in Remarks) | |
| | rface (S7) | | | , _/ | | | | , |
| | () | | | | | | | |
| ³ Indicators of | f hydrophytic vegetat | ion and w | etland hydrology mi | ust be pr | resent, ur | nless dist | urbed or problematic. | |
| Restrictive I | Layer (if observed): | | | | | | | |
| Type: | roc | k | | | | | | |
| Depth (ir | nches): | 9 | | | | | Hydric Soil Present? Yes | X No |
| Remarks: | | | | | | | | |
| | | | 0 | | •• | | 2.0 to include the NRCS Field Indicators | of Hydric Soils, |
| Roadside fill. | 2015 Errata. (http://w | ww.nrcs.u | Isda.gov/Internet/F | SE_DOC | JUMENT | S/nrcs14 | 2p2_051293.docx) | |
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| | | to the dep | | | | tor or c | onfirm the absence of indicators.) | |
|----------------------------|--|------------|--------------------------------|-----------|-------------------|---------------------|---|----------------------------|
| Depth (inches) | Matrix | 0/ | | x Featur | | Loc ² | Touturo | marka |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | LOC | Texture Rer | narks |
| 0-3 | 10YR 2/1 | 100 | | | | | Loamy/Clayey with | roots |
| 3-9 | 10YR 3/1 | 88 | 5YR 4/6 | 2 | C | PL | Sandy Prominent redo | ox concentrations |
| | | | 10YR 4/6 | 10 | С | M | with | gravel |
| | | | | | | | | |
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| | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=Depl | etion, RM | =Reduced Matrix, N | /IS=Mas | ked Sand | Grains. | ² Location: PL=Pore Lining, M= | Matrix. |
| Hydric Soil | | · · · · · | | | | | Indicators for Problematic Hy | |
| Histosol | (A1) | | Polyvalue Belo | w Surfa | ce (S8) (| LRR R, | 2 cm Muck (A10) (LRR K , | L, MLRA 149B) |
| Histic Ep | pipedon (A2) | | MLRA 149B |) | | | Coast Prairie Redox (A16) | (LRR K, L, R) |
| Black Hi | stic (A3) | | Thin Dark Surf | ace (S9) |) (LRR R | , MLRA [·] | 49B)5 cm Mucky Peat or Peat (| S3) (LRR K, L, R) |
| | n Sulfide (A4) | | High Chroma S | - | | | Polyvalue Below Surface (S | |
| | d Layers (A5) | | Loamy Mucky | | | R K, L) | Thin Dark Surface (S9) (LF | |
| · · | d Below Dark Surface | e (A11) | Loamy Gleyed | | F2) | | Iron-Manganese Masses (F | |
| | ark Surface (A12) | | Depleted Matri | | · C \ | | Piedmont Floodplain Soils | |
| | lucky Mineral (S1) Gleyed Matrix (S4) | | Redox Dark Su Depleted Dark | | | | Mesic Spodic (TA6) (MLRA Red Parent Material (F21) | A 144A, 145, 149B) |
| X Sandy C | | | Redox Depres | | | | Very Shallow Dark Surface | (F22) |
| | Matrix (S6) | | Marl (F10) (LR | | 5) | | Other (Explain in Remarks) | |
| | rface (S7) | | | , _/ | | | | , |
| | () | | | | | | | |
| ³ Indicators of | f hydrophytic vegetat | ion and w | etland hydrology mi | ust be pr | resent, ur | nless dist | urbed or problematic. | |
| Restrictive I | Layer (if observed): | | | | | | | |
| Type: | roc | k | | | | | | |
| Depth (ir | nches): | 9 | | | | | Hydric Soil Present? Yes | XNo |
| Remarks: | | | | | | | | |
| | | | 0 | | •• | | 2.0 to include the NRCS Field Indicators | of Hydric Soils, |
| Roadside fill. | 2015 Errata. (http://w | ww.nrcs.u | Isda.gov/Internet/F | SE_DOC | JUMENT | S/nrcs14 | 2p2_051293.docx) | |
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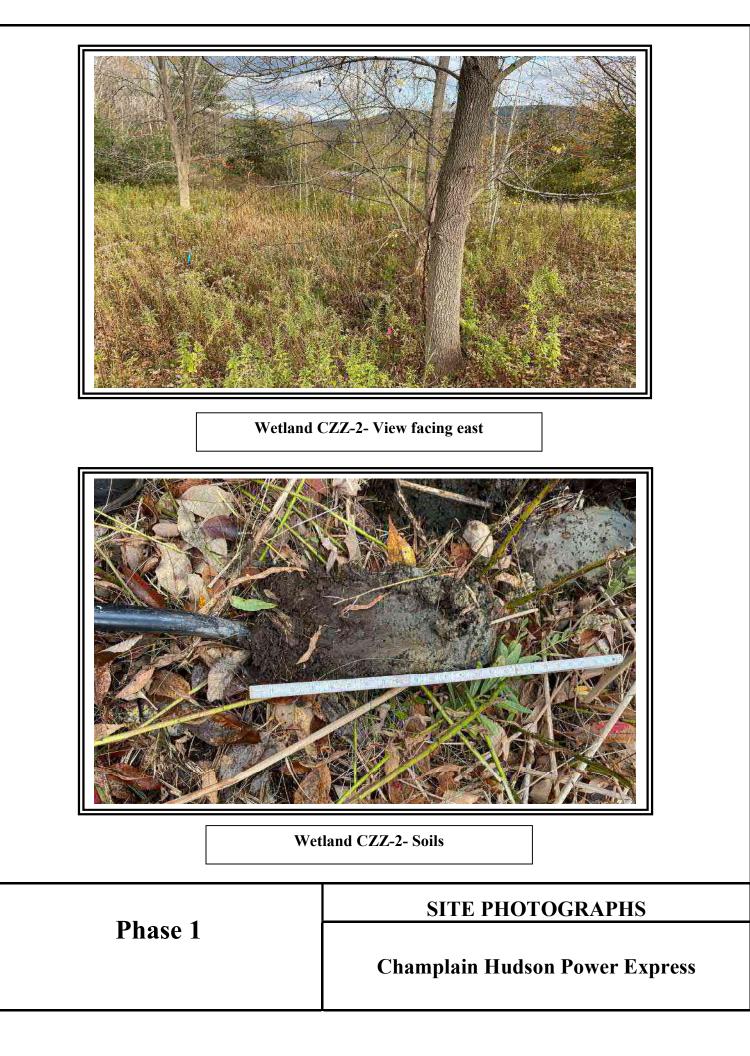
| Project/Site: CHPE | City/County: Dresden/Washington Sampling Date: 10/18/21 |
|--|--|
| Applicant/Owner: TDI | State: NY Sampling Point: WET CZZ-2 |
| Investigator(s): N. Frazer, J. Greaves, C. Scrivner | Section, Township, Range: |
| | relief (concave, convex, none): Concave Slope %: 3 |
| Subregion (LRR or MLRA): LRR R Lat: 43-37-31.22N | Long: 73-26-42.15N Datum: WGS 84 |
| . | |
| Soil Map Unit Name: VeC - Vergennes silty clay loam | NWI classification: PEM1 |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes <u>x</u> No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly disturb | |
| Are Vegetation, Soil, or Hydrologynaturally problema | atic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sam | pling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No |
| Wetland Hydrology Present? Yes X No | If yes, optional Wetland Site ID: Near Flag CZZ-2 |
| Remarks: (Explain alternative procedures here or in a separate report.) | |
| Palustrine Emergent Marsh - Cattail Marsh. Edinger classification: Shallow | Emergent Marsh. |
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| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Water-Stained Leaves (E | |
| X High Water Table (A2) Aquatic Fauna (B13) | Moss Trim Lines (B16) |
| X Saturation (A3) Marl Deposits (B15) | Dry-Season Water Table (C2) |
| Water Marks (B1) Hydrogen Sulfide Odor (| C1) Crayfish Burrows (C8) |
| Sediment Deposits (B2) X Oxidized Rhizospheres of | on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) |
| Drift Deposits (B3)Presence of Reduced Irc | |
| Algal Mat or Crust (B4) Recent Iron Reduction in | |
| Iron Deposits (B5) Thin Muck Surface (C7) | |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark | |
| Sparsely Vegetated Concave Surface (B8) | X FAC-Neutral Test (D5) |
| Field Observations: | |
| Surface Water Present? Yes No x Depth (inches): | |
| Water Table Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): | |
| (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre | zvious inspections), if available: |
| | |
| | |
| Remarks: | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Sampling Point: WET CZZ-2

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|--|---------------------|----------------------|---------------------|---|
| 1. 2. | | · | | Number of Dominant Species That Are OBL, FACW, or FAC:(A) |
| 3 4 | | · | | Total Number of Dominant Species Across All Strata:1(B) |
| 5 | | · | | Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) |
| 7 | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 75 x 1 = 75 |
| 1 | | | | FACW species 5 x 2 = 10 |
| 2. | | | | FAC species 15 x 3 = 45 |
| 3. | | | | FACU species 5 $x 4 = 20$ |
| 4. | | | | UPL species 0 x 5 = 0 |
| 5. | | | | Column Totals: 100 (A) 150 (B) |
| | | | | Prevalence Index = $B/A = 1.50$ |
| 6 7. | | | | Hydrophytic Vegetation Indicators: |
| ··· | | =Total Cover | | |
| Herb Stratum (Plot size: 5') | | | | 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% |
| | 05 | Ma a | | |
| 1. Typha angustifolia | 65 | Yes | OBL | X 3 - Prevalence Index is $≤3.0^1$ |
| 2. Equisetum arvense | 10 | No | FAC | 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) |
| 3. Lythrum salicaria | | No | OBL | |
| 4. Solidago rugosa | 5 | No | FAC | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. Lotus corniculatus | 5 | No | FACW | ¹ Indicators of hydric soil and wetland hydrology must be |
| 6. Plantago lanceolata | 5 | No | FACU | present, unless disturbed or problematic. |
| 7 | | | | Definitions of Vegetation Strata: |
| 8 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter |
| 9 | | | | at breast height (DBH), regardless of height. |
| 10 | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 12. | | | | |
| | 100 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| <u>Woody Vine Stratum</u> (Plot size: <u>30'</u>) | | | | Woody vines – All woody vines greater than 3.28 ft in |
| 1 | | | | height. |
| 2 | | | | |
| 3. | | | | Hydrophytic Vegetation |
| 4. | | | | Present? Yes X No |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a separ | ate sheet.) | - | | I |
| | | | | |
| | | | | |
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| | | | | |

| | Matrix | | | x Featur | | . 2 | | |
|--|--|------------|---|---|--|---------------------------------------|---|--|
| inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-6 | 10YR 2/1 | 95 | 10YR 3/3 | 5 | С | PL | Loamy/Clayey | |
| 6-10 | 10YR 3/1 | 60 | 10YR 4/6 | 30 | С | Μ | Loamy/Clayey | |
| | | | 10YR 5/4 | 10 | С | М | | Distinct redox concentrations |
| 10-16 | N 4/ | 78 | 10YR 4/3 | 10 | С | М | Sandy | Prominent redox concentrations |
| | | | 10YR 2/1 | 10 | С | М | | Distinct redox concentrations |
| | | | 10YR 5/4 | 2 | С | М | | Prominent redox concentrations |
| | | | | | | | | |
| | | | | _ | | | | |
| | | | | | | | | |
| | | · | | | | | | |
| | | | Dealuse al Materius M | 0 141- | | •••••• | 2 | D. Dava Linina M. Mateix |
| | | etion, RM= | Reduced Matrix, N | S=Mask | ed Sand | Grains. | | PL=Pore Lining, M=Matrix. |
| | Indicators: | etion, RM= | | | | | Indicators | for Problematic Hydric Soils ³ : |
| Hydric Soil I Histosol | Indicators: | etion, RM= | EReduced Matrix, M ?Polyvalue Belc MLRA 149B | w Surfac | | | Indicators 1 2 cm M | |
| Hydric Soil I Histosol | Indicators: (A1) Dipedon (A2) | etion, RM= | ? Polyvalue Belo | ow Surfac | ce (S8) (L | .RR R, | Indicators f 2 cm M ? Coast F | for Problematic Hydric Soils ³ : uck (A10) (LRR K, L, MLRA 149B) |
| Hydric Soil I Histosol Histic Ep Black His | Indicators: (A1) Dipedon (A2) | etion, RM⊧ | ? Polyvalue Belo | ow Surfac) ace (S9) | æ (S8) (L (LRR R, | .RR R, MLRA 1 | Indicators f 2 cm M ? Coast F 49B) 5 cm M | f or Problematic Hydric Soils³: uck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R) |
| Hydric Soil I Histosol Histic Ep Black His Hydroge | Indicators: (A1) bipedon (A2) stic (A3) | etion, RM₌ | Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S | ow Surfac) ace (S9) Sands (S | e (S8) (L (LRR R, 11) (LRR | .RR R, MLRA 1 t K, L) | Indicators f 2 cm M ? Coast F (49B) 5 cm M Polyvali | for Problematic Hydric Soils ³ : uck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R) |
| Hydric Soil I Histosol Histic Ep Black His Hydroge Stratified | Indicators: (A1) pipedon (A2) stic (A3) n Sulfide (A4) | | Polyvalue Belc MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky | ow Surfac) ace (S9) Sands (S Mineral (| ce (S8) (L (LRR R, 11) (LRR F1) (LRF | .RR R, MLRA 1 t K, L) | Indicators f 2 cm M ? Coast F (49B) 5 cm M Polyvalu Thin Da | for Problematic Hydric Soils ³ : uck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R) ue Below Surface (S8) (LRR K, L) ark Surface (S9) (LRR K, L) |
| Hydric Soil I Histosol Histic Ep Black His Hydroge Stratified X Depleted | Indicators: (A1) pipedon (A2) stic (A3) n Sulfide (A4) I Layers (A5) | | Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S | w Surfac) ace (S9) Sands (S Mineral (Matrix (I | ce (S8) (L (LRR R, 11) (LRR F1) (LRF | .RR R, MLRA 1 t K, L) | Indicators f 2 cm M ? Coast F 49B) 5 cm M Polyvalu Thin Da ? Iron-Ma | for Problematic Hydric Soils ³ : uck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R) ue Below Surface (S8) (LRR K, L) ark Surface (S9) (LRR K, L) anganese Masses (F12) (LRR K, L, R) |
| Hydric Soil I Histosol Histic Ep Black His Hydroge Stratified X Depleted Thick Da | Indicators: (A1) bipedon (A2) stic (A3) n Sulfide (A4) I Layers (A5) d Below Dark Surface | | Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed | ow Surfac) ace (S9) Sands (S Mineral (Matrix (I x (F3) | ce (S8) (L (LRR R, 11) (LRR F1) (LRF F2) | .RR R, MLRA 1 t K, L) | Indicators f 2 cm M ? Coast F 5 cm M Polyvalu Thin Da ? Iron-Ma Piedmo | for Problematic Hydric Soils ³ : uck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R) ue Below Surface (S8) (LRR K, L) |
| Hydric Soil I Histosol Histic Ep Black His Hydroge Stratified X Depleted Thick Da Sandy M | Indicators: (A1) bipedon (A2) stic (A3) n Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) | | Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed Depleted Matri | ow Surfac) ace (S9) Sands (S Mineral (Matrix (I x (F3) urface (F | ce (S8) (L (LRR R, 11) (LRR F1) (LRR F2) 6) | .RR R, MLRA 1 t K, L) | Indicators f 2 cm M ? Coast F 5 cm M Polyvalu Thin Da ? Iron-Ma Piedmo Mesic S | for Problematic Hydric Soils ³ : uck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R) ue Below Surface (S8) (LRR K, L) ark Surface (S9) (LRR K, L) unganese Masses (F12) (LRR K, L, R) ont Floodplain Soils (F19) (MLRA 149B |
| Hydric Soil I Histosol Histic Ep Black His Hydroge Stratified X Depleted Thick Da Sandy M Sandy G | Indicators: (A1) pipedon (A2) stic (A3) n Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) lucky Mineral (S1) ileyed Matrix (S4) | | Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed Depleted Matri X Redox Dark Si | w Surfac) ace (S9) Sands (S Mineral (Matrix (I Matrix (I x (F3) urface (F Surface | e (S8) (L (LRR R, 11) (LRR F1) (LRR F2) 6) (F7) | .RR R, MLRA 1 t K, L) | Indicators f 2 cm M ? Coast F 5 cm M Polyvalu Thin Da ? Iron-Ma Piedmo Mesic S Red Pa | for Problematic Hydric Soils ³ : uck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R) ue Below Surface (S8) (LRR K, L) ark Surface (S9) (LRR K, L) anganese Masses (F12) (LRR K, L, R) ont Floodplain Soils (F19) (MLRA 149B) spodic (TA6) (MLRA 144A, 145, 149B) rent Material (F21) |
| Hydric Soil I Histosol Histic Ep Black His Hydroge Stratified X Depleted Thick Da Sandy M Sandy G Sandy R | Indicators: (A1) pipedon (A2) stic (A3) n Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) lucky Mineral (S1) | | Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed Depleted Matri X Redox Dark So Depleted Dark | w Surfac) ace (S9) Sands (S Mineral (Matrix (I Matrix (I x (F3) urface (F Surface sions (F{ | e (S8) (L (LRR R, 11) (LRR F1) (LRR F2) 6) (F7) | .RR R, MLRA 1 t K, L) | Indicators f 2 cm M ? Coast F S cm M Polyvalu Thin Da ? Iron-Ma Piedmo Mesic S Red Pa Very Sh | for Problematic Hydric Soils ³ : uck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R) ue Below Surface (S8) (LRR K, L) ark Surface (S9) (LRR K, L) anganese Masses (F12) (LRR K, L, R) ont Floodplain Soils (F19) (MLRA 149B) Spodic (TA6) (MLRA 144A, 145, 149B) |
| Hydric Soil I Histosol Histic Ep Black His Hydroge Stratified X Depleted Thick Da Sandy M Sandy G Sandy R Stripped | Indicators: (A1) bipedon (A2) stic (A3) n Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) lucky Mineral (S1) ileyed Matrix (S4) edox (S5) | | Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed Depleted Matri X Redox Dark Si Depleted Dark Redox Depres | w Surfac) ace (S9) Sands (S Mineral (Matrix (I Matrix (I x (F3) urface (F Surface sions (F{ | e (S8) (L (LRR R, 11) (LRR F1) (LRR F2) 6) (F7) | .RR R, MLRA 1 t K, L) | Indicators f 2 cm M ? Coast F S cm M Polyvalu Thin Da ? Iron-Ma Piedmo Mesic S Red Pa Very Sh | for Problematic Hydric Soils ³ : uck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R) ue Below Surface (S8) (LRR K, L) ark Surface (S9) (LRR K, L) anganese Masses (F12) (LRR K, L, R) unt Floodplain Soils (F19) (MLRA 149B) spodic (TA6) (MLRA 144A, 145, 149B) rent Material (F21) nallow Dark Surface (F22) |
| Hydric Soil I Histosol Histic Ep Black His Hydroge Stratified X Depleted Thick Da Sandy M Sandy G Sandy R Stripped Dark Sur | Indicators: (A1) pipedon (A2) stic (A3) In Sulfide (A4) Layers (A5) Below Dark Surface ark Surface (A12) lucky Mineral (S1) ileyed Matrix (S4) edox (S5) Matrix (S6) rface (S7) | e (A11) | Polyvalue Belc MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed Depleted Matri X Redox Dark So Depleted Dark Redox Depres Marl (F10) (LR | w Surfac) ace (S9) Sands (S Mineral (Matrix (I x (F3) urface (F Surface sions (F{ R K, L) | ce (S8) (L (LRR R, 11) (LRF F1) (LRF F2) 6) (F7) 3) | RR R, MLRA 1 ₹ K, L) ₹ K, L) | Indicators f 2 cm M ? Coast F 5 cm M Polyvalu Thin Da ? Iron-Ma Piedmo Mesic S Red Pa Very Sh Other (F | for Problematic Hydric Soils ³ : uck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R) ue Below Surface (S8) (LRR K, L) ark Surface (S9) (LRR K, L) anganese Masses (F12) (LRR K, L, R) unt Floodplain Soils (F19) (MLRA 149B) spodic (TA6) (MLRA 144A, 145, 149B) rent Material (F21) nallow Dark Surface (F22) |
| Hydric Soil I Histosol Histic Ep Black His Hydroge Stratified X Depleted Thick Da Sandy M Sandy G Sandy R Sandy R Stripped Dark Sur | Indicators: (A1) bipedon (A2) stic (A3) n Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) fucky Mineral (S1) bleyed Matrix (S4) edox (S5) Matrix (S6) | e (A11) | Polyvalue Belc MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed Depleted Matri X Redox Dark So Depleted Dark Redox Depres Marl (F10) (LR | w Surfac) ace (S9) Sands (S Mineral (Matrix (I x (F3) urface (F Surface sions (F{ R K, L) | ce (S8) (L (LRR R, 11) (LRF F1) (LRF F2) 6) (F7) 3) | RR R, MLRA 1 ₹ K, L) ₹ K, L) | Indicators f 2 cm M ? Coast F 5 cm M Polyvalu Thin Da ? Iron-Ma Piedmo Mesic S Red Pa Very Sh Other (F | for Problematic Hydric Soils ³ : uck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R) ue Below Surface (S8) (LRR K, L) ark Surface (S9) (LRR K, L) anganese Masses (F12) (LRR K, L, R) unt Floodplain Soils (F19) (MLRA 149B) spodic (TA6) (MLRA 144A, 145, 149B) rent Material (F21) nallow Dark Surface (F22) |
| Hydric Soil I Histosol Histic Ep Black His Hydroge Stratified X Depleted Thick Da Sandy M Sandy G Sandy R Sandy R Stripped Dark Sur | Indicators: (A1) bipedon (A2) stic (A3) n Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) lucky Mineral (S1) ileyed Matrix (S4) edox (S5) Matrix (S6) rface (S7) f hydrophytic vegetati | e (A11) | Polyvalue Belc MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed Depleted Matri X Redox Dark So Depleted Dark Redox Depres Marl (F10) (LR | w Surfac) ace (S9) Sands (S Mineral (Matrix (I x (F3) urface (F Surface sions (F{ R K, L) | ce (S8) (L (LRR R, 11) (LRF F1) (LRF F2) 6) (F7) 3) | RR R, MLRA 1 ₹ K, L) ₹ K, L) | Indicators f 2 cm M ? Coast F 5 cm M Polyvalu Thin Da ? Iron-Ma Piedmo Mesic S Red Pa Very Sh Other (F | for Problematic Hydric Soils ³ : uck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R) ue Below Surface (S8) (LRR K, L) ark Surface (S9) (LRR K, L) anganese Masses (F12) (LRR K, L, R) unt Floodplain Soils (F19) (MLRA 149E Spodic (TA6) (MLRA 144A, 145, 149B) rent Material (F21) nallow Dark Surface (F22) |

Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx) Roadside fill/rock.



| Project/Site: CHPE | City/County: Dresde | en/Washington | Sampling Date: 10 |)/18/21 |
|---|-----------------------------|-------------------------|------------------------|-----------|
| Applicant/Owner: TDI | | State: NY | Sampling Point: | CZZ-2 Upl |
| Investigator(s): N. Frazer, J. Greaves, C. Scrivner | Section, To | ownship, Range: | | |
| Landform (hillside, terrace, etc.): flat | Local relief (concave, conv | ex, none): none | Slope % | 6: 0 |
| Subregion (LRR or MLRA): LRR R Lat: 43-37-31 | .22N Long: | 73-26-42.15N | Datum: | |
| Soil Map Unit Name: Vergennes silty clay loam | | NWI classificatio | n: <u>N/A</u> | |
| Are climatic / hydrologic conditions on the site typical for this time of | of year? Yes x | No (If no | , explain in Remarks.) | |
| Are Vegetation, Soil, or Hydrologysignificant | tly disturbed? Are "Nor | mal Circumstances" pre | esent? Yes <u>x</u> N | lo |
| Are Vegetation, Soil, or Hydrologynaturally | problematic? (If neede | ed, explain any answers | in Remarks.) | |
| SUMMARY OF FINDINGS – Attach site map showing | ng sampling point loca | tions, transects, i | mportant feature | s, etc. |
| | | | | |

| Hydrophytic Vegetation Present? | Yes | No X | Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: |
|--|-------------------|------------------|--|
| Hydric Soil Present? | YesX | No | |
| Wetland Hydrology Present? | Yes | No X | |
| Remarks: (Explain alternative procedure Mowed roadside. | es here or in a s | eparate report.) | |

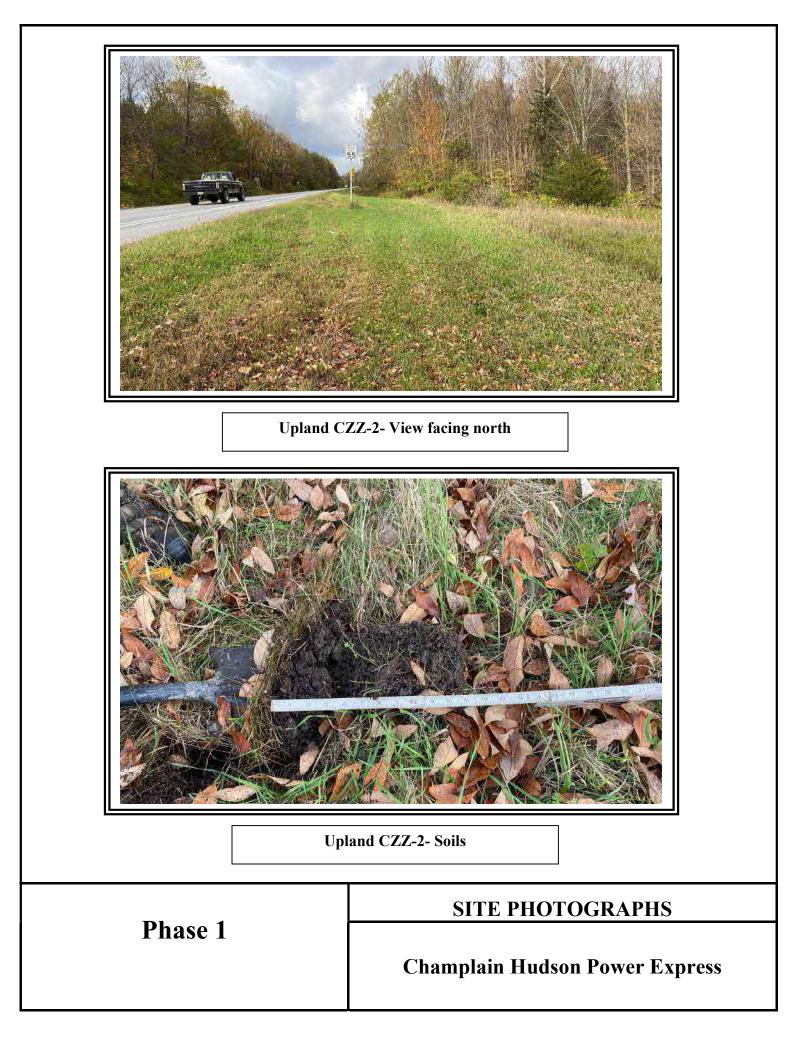
HYDROLOGY

| Wetland Hydrology Indicators: | | | Secondary Indicators (minimum of two required) | |
|---|---------------------------------------|-----------|--|--|
| Primary Indicators (minimum of one is requi | Surface Soil Cracks (B6) | | | |
| Surface Water (A1) | Water-Stained Leaves (B9) | | Drainage Patterns (B10) | |
| High Water Table (A2) | Aquatic Fauna (B13) | | Moss Trim Lines (B16) | |
| Saturation (A3) | Marl Deposits (B15) | | Dry-Season Water Table (C2) | |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | | Crayfish Burrows (C8) | |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Ro | oots (C3) | Saturation Visible on Aerial Imagery (C9) | |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | | Stunted or Stressed Plants (D1) | |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils | s (C6) | Geomorphic Position (D2) | |
| Iron Deposits (B5) | Thin Muck Surface (C7) | | Shallow Aquitard (D3) | |
| Inundation Visible on Aerial Imagery (B | 7) Other (Explain in Remarks) | | Microtopographic Relief (D4) | |
| Sparsely Vegetated Concave Surface (I | 38) | | FAC-Neutral Test (D5) | |
| Field Observations: | | | | |
| Surface Water Present? Yes | No x Depth (inches): | | | |
| Water Table Present? Yes | No x Depth (inches): | | | |
| Saturation Present? Yes | No x Depth (inches): | Wetlan | d Hydrology Present? Yes No X | |
| | | | | |
| (includes capillary fringe) | | | , | |
| | | | | |
| (includes capillary fringe) | | | | |
| (includes capillary fringe) | | | | |
| (includes capillary fringe) | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | | | | |

Sampling Point: CZZ-2 Upl

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|--|---------------------|----------------------|---------------------|---|
| 1. | | | | |
| 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A) |
| 3 4 | | | | Total Number of Dominant Species Across All Strata:1(B) |
| 5. 6. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC:0.0% (A/B) |
| 7 | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species x 1 = |
| 1 | | | | FACW species 0 x 2 = 0 |
| 2 | | | | FAC species x 3 = |
| 3 | | | | FACU species 107 x 4 = 428 |
| 4. | | | | UPL species 5 x 5 = 25 |
| 5. | | | | Column Totals: 112 (A) 453 (B) |
| 6. | | | | Prevalence Index = $B/A = 4.04$ |
| 7. | | | | Hydrophytic Vegetation Indicators: |
| | | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% |
| 1. Poa pratensis | 97 | Yes | FACU | 3 - Prevalence Index is ≤3.0 ¹ |
| 2. Taraxacum officinale | 2 | No | FACU | 4 - Morphological Adaptations ¹ (Provide supporting |
| 3. Daucus carota | 2 | No | UPL | data in Remarks or on a separate sheet) |
| 4. Pastinaca sativa | 2 | No | UPL | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. Lotus corniculatus | 5 | No | FACU | |
| 6. Plantago lanceolata | 1 | No | FACU | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 7. Coronilla varia | 1 | No | UPL | Definitions of Vegetation Strata: |
| 8 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in |
| 9. | | | | diameter at breast height (DBH), regardless of height. |
| 10. | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 11. | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | | | | Herb – All herbaceous (non-woody) plants, regardless |
| | 110 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | Woody vines – All woody vines greater than 3.28 ft in |
| 1. Vitis aestivalis | 2 | No | FACU | height. |
| 2 | | | | the describents |
| 3 | | | | Hydrophytic Vegetation |
| 4 | | | | Present? Yes No X |
| | 2 | =Total Cover | | |
| Remarks: (Include photo numbers here or on a separ | ate sheet.) | | | 1 |
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| Profile Desci | ription: (Describe | to the de | pth needed to doc | ument tl | ne indica | tor or co | onfirm the absence of | indicators.) |
|-------------------------|------------------------|-----------|----------------------|-----------|-------------------|------------------|---------------------------|---|
| Depth | Matrix | | | x Featur | | | | |
| (inches) | Color (moist) | % | Color (moist) | | Type ¹ | Loc ² | Texture | Remarks |
| 0-11 | 10YR 2/1 | 90 | 10YR 5/3 | 10 | C | M | Loamy/Clayey | Distinct redox concentrations |
| | | | | | | | | with gravel |
| | | | | | | | | |
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| | | | | | | | | |
| ¹ Type: C=Co | ncentration, D=Depl | etion, R | //=Reduced Matrix, N | //S=Masl | ked Sand | l Grains. | ² Location: PL | _=Pore Lining, M=Matrix. |
| Hydric Soil In | | | | | | | | r Problematic Hydric Soils ³ : |
| Histosol (| | | Polyvalue Belo | | ce (S8) (I | LRR R, | | ck (A10) (LRR K, L, MLRA 149B) |
| Histic Epi | pedon (A2) | | MLRA 149B | ' | | | | airie Redox (A16) (LRR K, L, R) |
| Black His | tic (A3) | | Thin Dark Surf | face (S9) |) (LRR R | , MLRA 1 | 149B)5 cm Muc | cky Peat or Peat (S3) (LRR K, L, R) |
| Hydroger | n Sulfide (A4) | | High Chroma | Sands (S | 611) (LRF | R K, L) | Polyvalue | e Below Surface (S8) (LRR K, L) |
| Stratified | Layers (A5) | | Loamy Mucky | Mineral | (F1) (LRI | R K, L) | Thin Dark | s Surface (S9) (LRR K, L) |
| Depleted | Below Dark Surface | e (A11) | Loamy Gleyed | Matrix (| F2) | | Iron-Mang | ganese Masses (F12) (LRR K, L, R) |
| Thick Dar | rk Surface (A12) | | Depleted Matri | ix (F3) | | | Piedmont | t Floodplain Soils (F19) (MLRA 149B) |
| | ucky Mineral (S1) | | X Redox Dark S | | 6) | | | odic (TA6) (MLRA 144A, 145, 149B) |
| | eyed Matrix (S4) | | Depleted Dark | • | , | | | ent Material (F21) |
| Sandy Re | | | Redox Depres | | | | | llow Dark Surface (F22) |
| | Matrix (S6) | | Marl (F10) (LR | | 5) | | | (plain in Remarks) |
| Dark Surf | | | | ux n, ∟) | | | | |
| Bank Bank | | | | | | | | |
| | | ion and v | vetland hydrology m | ust be pr | esent, ur | nless dist | urbed or problematic. | |
| | ayer (if observed): | | | | | | | |
| Type: | roc | | | | | | Hydric Soil Present | |
| Depth (in | | 11 | | | | | Hydric Soli Presen | t? Yes X No |
| Remarks: | - in un de al fue a Na | | Loud North cost Dov | | | | 0.0 to include the NDC | C Field Indiantons of Lludvin Colla |
| | | | usda.gov/Internet/F | | | | | S Field Indicators of Hydric Soils, |
| Roadside fill/r | | ww.mcs | .usua.gov/internet/1 | | | 0/11/03/14 | 2p2_001290.000x) | |
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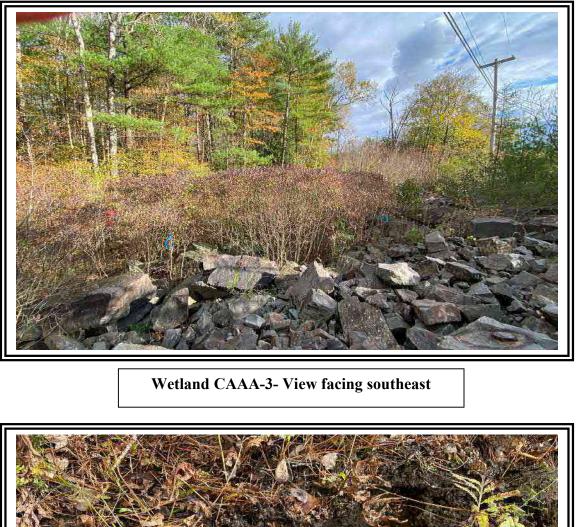
| Project/Site: CHDE | City/County: Drocdon/Washington Sampling Date: 10/18/21 |
|--|--|
| Project/Site: CHPE | City/County: Dresden/Washington Sampling Date: 10/18/21 |
| Applicant/Owner: TDI | State: NY Sampling Point: WET CAAA-3 |
| Investigator(s): N. Frazer, J. Greaves, C. Scrivner | Section, Township, Range: |
| Landform (hillside, terrace, etc.): hillslope Local | relief (concave, convex, none): <u>Concave</u> Slope %: <u>2</u> |
| Subregion (LRR or MLRA): LRR R Lat: 43-36-29.49N | Long: 73-25-56.61W Datum: WGS 84 |
| Soil Map Unit Name: HLC - Hollis-Charlton association, moderately steep | and steep NWI classification: PSS1 |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes x No (If no, explain in Remarks.) |
| Are Vegetation <u>x</u> , Soil <u>x</u> , or Hydrology <u>x</u> significantly distur | rbed? Are "Normal Circumstances" present? Yes No x |
| Are Vegetation , Soil , or Hydrology naturally problema | |
| | |
| SUMMART OF FINDINGS – Attach site map showing san | npling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No |
| Wetland Hydrology Present? Yes X No | If yes, optional Wetland Site ID: Near Flag CAAA-3 |
| | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Water-Stained Leaves (| B9) Drainage Patterns (B10) |
| X High Water Table (A2) Aquatic Fauna (B13) | Moss Trim Lines (B16) |
| X Saturation (A3) Marl Deposits (B15) | Dry-Season Water Table (C2) |
| Water Marks (B1) Hydrogen Sulfide Odor (| |
| Sediment Deposits (B2) X Oxidized Rhizospheres | |
| Drift Deposits (B3)Presence of Reduced In | |
| Algal Mat or Crust (B4) Recent Iron Reduction in | |
| Iron Deposits (B5) Thin Muck Surface (C7) | |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar | |
| Sparsely Vegetated Concave Surface (B8) | X FAC-Neutral Test (D5) |
| Field Observations: | |
| Surface Water Present? Yes No x Depth (inches) | |
| Water Table Present? Yes X No Depth (inches) | |
| Saturation Present? Yes X No Depth (inches) | : 0 Wetland Hydrology Present? Yes X No X |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre | aviaus inspections), if available: |
| Describe Necolueu Data (stream gauge, monitoring weil, aenal photos, pre | wous inspections), il available. |

Remarks:

Sampling Point: WET CAAA-3

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|--|---------------------|----------------------|---------------------|--|
| 1. 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC:4 (A) |
| 3 | | | | Total Number of Dominant Species Across All Strata: <u>4</u> (B) |
| 5 6 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) |
| 7. | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 2 x 1 = 2 |
| 1. Cornus racemosa | 80 | Yes | FAC | FACW species 8 x 2 = 16 |
| 2. Lonicera morrowii | 3 | No | FACU | FAC species 93 x 3 = 279 |
| 3. Fagus grandifolia | 2 | No | FACU | FACU species 6 x 4 = 24 |
| 4. Hamamelis virginiana | 1 | No | FACU | UPL species 0 x 5 = 0 |
| 5. | | | | Column Totals: 109 (A) 321 (B) |
| 6. | | | | Prevalence Index = B/A = 2.94 |
| 7. | | | | Hydrophytic Vegetation Indicators: |
| | 86 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% |
| 1. Equisetum arvense | 8 | Yes | FAC | X 3 - Prevalence Index is ≤3.0 ¹ |
| 2. Onoclea sensibilis | 8 | Yes | FACW | 4 - Morphological Adaptations ¹ (Provide supporting |
| 3. Cornus racemosa | 5 | Yes | FAC | data in Remarks or on a separate sheet) |
| 4. Carex lurida | 2 | No | OBL | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. | | | | |
| 6. | | | | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 7. | | | | Definitions of Vegetation Strata: |
| 8. | | | | |
| 9. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 10. | | | | |
| 11. | | | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. |
| 12. | | · | | |
| | 23 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | |
| 1 | | | | Woody vines – All woody vines greater than 3.28 ft in height. |
| 2. | | | | |
| 3. | | | | Hydrophytic |
| 4. | | | | Vegetation Present? Yes X No |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a separ | | | | |
| rip rap slope | | | | |
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| Profile Desc | ription: (Describe t | o the de | oth needed to docu | ment th | e indica | tor or co | onfirm the absence of i | indicators.) | | |
|----------------------------|-----------------------|-----------|----------------------|-----------|--------------------|------------------|---|--|--|--|
| Depth | Matrix | | Redo | x Featur | es | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | | |
| 0-3 | 10YR 3/1 | 82 | 10YR 4/3 | 10 | С | М | Mucky Loam/Clay | Distinct redox concentrations | | |
| | | | 7.5YR 4/6 | 2 | С | PL | | Prominent redox concentrations | | |
| 3-6 | 10YR 4/1 | 75 | 10YR 5/6 | 25 | С | М | Mucky Loam/Clay | Prominent redox concentrations | | |
| 6-15 | 10YR 5/1 | 60 | 10YR 5/6 | 35 | С | Μ | Mucky Loam/Clay | Prominent redox concentrations | | |
| | | | 10YR 2/1 | 5 | С | М | | Distinct redox concentrations | | |
| | | | | | | | | | | |
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| | oncentration, D=Deple | etion, RM | =Reduced Matrix, M | S=Mask | ed Sand | Grains. | | L=Pore Lining, M=Matrix. | | |
| Hydric Soil I | ndicators: | | | | | | Indicators for | or Problematic Hydric Soils ³ : | | |
| Histosol | (A1) | | ? Polyvalue Belo | w Surfac | ce (S8) (I | _RR R, | 2 cm Mu | ck (A10) (LRR K, L, MLRA 149B) | | |
| Histic Ep | ipedon (A2) | | MLRA 149B |) | | | ? Coast Pr | airie Redox (A16) (LRR K, L, R) | | |
| Black His | stic (A3) | | Thin Dark Surfa | ace (S9) | (LRR R, | MLRA 1 | 149B) 5 cm Mu | cky Peat or Peat (S3) (LRR K, L, R) | | |
| Hydroger | n Sulfide (A4) | | High Chroma S | Sands (S | 511) (LRF | R K, L) | Polyvalue | e Below Surface (S8) (LRR K, L) | | |
| Stratified | Layers (A5) | | Loamy Mucky I | Mineral (| (F1) (LRF | R K, L) | Thin Dar | k Surface (S9) (LRR K, L) | | |
| | Below Dark Surface | (A11) | Loamy Gleyed | | | , , | ? Iron-Manganese Masses (F12) (LRR K, L, R) | | | |
| | rk Surface (A12) | (,,,,,,, | X Depleted Matrix | | _) | | Piedmont Floodplain Soils (F12) (MLRA 149B) | | | |
| | | | | . , | · • • | | | , , , , | | |
| | ucky Mineral (S1) | | Redox Dark Su | • | , | | Mesic Spodic (TA6) (MLRA 144A, 145, 149B) | | | |
| Sandy G | leyed Matrix (S4) | | Depleted Dark | Surface | (F7) | | Red Parent Material (F21) | | | |
| Sandy R | edox (S5) | | ? Redox Depress | sions (F | 3) | | Very Shallow Dark Surface (F22) | | | |
| Stripped | Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other (E | xplain in Remarks) | | |
| Dark Sur | face (S7) | | | | | | | | | |
| ³ Indicators of | hydrophytic vegetati | on and w | etland hydrology mus | st be pre | esent, unl | ess distu | irbed or problematic. | | | |
| | ayer (if observed): | | | | | | | | | |
| Type: | | | | | | | | | | |
| Deptn (Ir Remarks: | nches): | | | | | | Hydric Soil Presen | nt? Yes <u>X</u> No | | |
| Remarks. | | | | | | | | | | |
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Wetland CAAA-3- Soils

Phase 1

SITE PHOTOGRAPHS

Champlain Hudson Power Express

| Project/Site: CHPE | City/County: Dresden/ Washington Sampling Date: 10/18/21 |
|---|--|
| Applicant/Owner: TDI | State: NY Sampling Point: CAAA-3 Upl |
| Investigator(s): N. Frazer, J. Greaves, C. Scrivner | Section, Township, Range: |
| Landform (hillside, terrace, etc.): hillslope Local re | elief (concave, convex, none): none Slope %: 0 |
| Subregion (LRR or MLRA): LRR R Lat: 43-36-29.49N | Long: <u>73-25-56.61W</u> Datum: |
| Soil Map Unit Name: Hollis-Charlton association | NWI classification: N/A |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes x No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrology significantly disturb | ed? Are "Normal Circumstances" present? Yes No x |
| Are Vegetation, Soil, or Hydrologynaturally problemat | tic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing same | oling point locations, transects, important features, etc. |

| Hydrophytic Vegetation Present? Hydric Soil Present? | Yes Yes | NoX NoX | Is the Sampled Area within a Wetland? Yes No X |
|---|------------|-------------------|---|
| Wetland Hydrology Present? | Yes | No X | If yes, optional Wetland Site ID: |
| Remarks: (Explain alternative procedu Rip rap slope with no soils and minima | | separate report.) | |

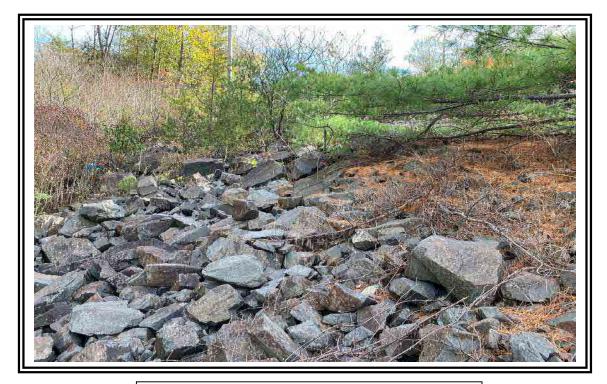
HYDROLOGY

| Wetland Hydrology Indicato | ors: | | | | Secondary Indicators (min | nimum of two required) | |
|------------------------------|-------------------|---------------------|---------------------------------|--------------|---------------------------|---------------------------------------|--|
| Primary Indicators (minimum | of one is require | ed; check all | that apply) | | Surface Soil Cracks (I | B6) | |
| Surface Water (A1) | | Water- | Stained Leaves (B9) | | Drainage Patterns (B10) | | |
| High Water Table (A2) | | Aquatio | c Fauna (B13) | | Moss Trim Lines (B16) | | |
| Saturation (A3) | | Marl Deposits (B15) | | | Dry-Season Water Ta | able (C2) | |
| Water Marks (B1) | | Hydrog | jen Sulfide Odor (C1) | | Crayfish Burrows (C8) |) | |
| Sediment Deposits (B2) | | Oxidize | ed Rhizospheres on Living Re | oots (C3) | Saturation Visible on A | Aerial Imagery (C9) | |
| Drift Deposits (B3) | | Preser | nce of Reduced Iron (C4) | | Stunted or Stressed F | Plants (D1) | |
| Algal Mat or Crust (B4) | | Recent | t Iron Reduction in Tilled Soil | ls (C6) | Geomorphic Position | (D2) | |
| Iron Deposits (B5) | | | | | ? Shallow Aquitard (D3) |) | |
| Inundation Visible on Aer | ial Imagery (B7) | | | | Microtopographic Reli | ief (D4) | |
| Sparsely Vegetated Cond | cave Surface (B | 8) | | | FAC-Neutral Test (D5 | 5) | |
| Field Observations: | | | | 1 | | | |
| Surface Water Present? | Yes | No x | Depth (inches): | | | | |
| Water Table Present? | Yes | No x | Depth (inches): | | | | |
| Saturation Present? | Yes | No x | Depth (inches): | Wetlar | nd Hydrology Present? | Yes No X | |
| (includes capillary fringe) | | | | | , <u>.</u> | · · · · · · · · · · · · · · · · · · · | |
| Describe Recorded Data (stre | eam daude, mor | nitoring well. | aerial photos, previous inspe | ections), if | available: | | |
| | 5 5 , | J , | | ,, | | | |
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| Remarks: | | | | | | | |
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Sampling Point: CAAA-3 Upl

| <u>Tree Stratum</u> (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|--|---------------------|----------------------|---------------------|---|
| · | | | FACU | |
| 1. Pinus strobus | 8 | Yes | FACU | Number of Dominant Species |
| 2 | | | | That Are OBL, FACW, or FAC:(A) |
| 3. | | | | Total Number of Dominant |
| 4 | | | | Species Across All Strata:(B) |
| 5 | | | | Percent of Dominant Species |
| 6 | | | | That Are OBL, FACW, or FAC: 0.0% (A/B) |
| 7 | | | | Prevalence Index worksheet: |
| | 8 | =Total Cover | | Total % Cover of:Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species x 1 = |
| 1 | | | | FACW species 0 x 2 = 0 |
| 2 | | | | FAC species x 3 = 9 |
| 3 | | | | FACU species 8 x 4 = 32 |
| 4 | | | | UPL species x 5 = |
| 5 | | | | Column Totals: 12 (A) 42 (B) |
| 6 | | | | Prevalence Index = B/A =3.50 |
| 7 | | | | Hydrophytic Vegetation Indicators: |
| | | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% |
| 1. Solanum dulcamara | 3 | No | FAC | 3 - Prevalence Index is ≤3.0 ¹ |
| 2. Lythrum salicaria | 1 | No | OBL | 4 - Morphological Adaptations ¹ (Provide supporting |
| 3. | | | | data in Remarks or on a separate sheet) |
| 4 | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| | | | | |
| | | | | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| | | | | Definitions of Vegetation Strata: |
| 7 8 | | | | _ |
| 9. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 9 10. | | | | diameter at breast neight (DDT), regardless of height. |
| | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | | | | Herb – All herbaceous (non-woody) plants, regardless |
| | 4 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| <u>Woody Vine Stratum</u> (Plot size: <u>30'</u>) | | | | Woody vines – All woody vines greater than 3.28 ft in |
| 1 | | | | height. |
| 2 | | | | Hydrophytic |
| 3 | | | | Vegetation |
| 4 | | | | Present? Yes <u>No X</u> |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a sepa | arate sheet.) | | | |
| Rip rap slope. | | | | |
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| Profile Desc | cription: (Describe | to the de | pth needed to doc | ument t | he indica | tor or co | onfirm the absence | of indica | tors.) | | |
|---|------------------------|------------|---------------------|-----------|-------------------|------------------|---|------------|---|-----------------------|--------------|
| Depth | Matrix | | Redo | x Featur | res | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | | Rema | rks | |
| | | | | | | | | | | | |
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| ¹ Type: C=Co | oncentration, D=Dep | letion, RM | Reduced Matrix, N | //S=Mas | ked Sand | I Grains. | ² Location: | PL=Pore | Lining, M=Ma | atrix. | |
| Hydric Soil | Indicators: | | | | | | Indicators | s for Prob | lematic Hydr | ic Soils ³ | : |
| Histosol | (A1) | | Polyvalue Belo | ow Surfa | ce (S8) (I | LRR R, | 2 cm | Muck (A10 |) (LRR K, L, | MLRA 14 | 19B) |
| | pipedon (A2) | | MLRA 149B | | . , . | | Coast | Prairie Re | edox (A16) (L | RR K, L, | R) |
| | stic (A3) | | Thin Dark Surf | , |) (LRR R | MLRA 1 | | | at or Peat (S3 | | - |
| | n Sulfide (A4) | | High Chroma S | | | | Polyvalue Below Surface (S8) (LRR K, L) | | | | |
| | d Layers (A5) | | Loamy Mucky | | | | Thin Dark Surface (S9) (LRR K, L) | | | | |
| | d Below Dark Surface | e (A11) | Loamy Gleyed | | | . , | Iron-Manganese Masses (F12) (LRR K, L, R) | | | | |
| | ark Surface (A12) | () | Depleted Matri | | , | | | - | plain Soils (F [.] | | |
| | lucky Mineral (S1) | | Redox Dark Su | | -6) | | | | A6) (MLRA 1 | | |
| | Gleyed Matrix (S4) | | Depleted Dark | `` | , | | | | erial (F21) | , | . , |
| | Redox (S5) | | Redox Depres | | | | | | ark Surface (F | 22) | |
| | Matrix (S6) | | Marl (F10) (LR | | - / | | | | n Remarks) | , | |
| | rface (S7) | | | , _, | | | | (| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | |
| | | | | | | | | | | | |
| ³ Indicators o | f hydrophytic vegetat | ion and w | etland hydrology mi | ust be pi | resent. ur | nless disti | urbed or problemati | с. | | | |
| | Laver (if observed): | | , | - 12 | ., | | | | | | |
| Type: | rip ra | ар | | | | | | | | | |
| ••••••••••••••••••••••••••••••••••••••• | | 0 | | | | | Undria Cail Dra | | Vaa | No | V |
| Depth (ii | inches). | 0 | | | | | Hydric Soil Pres | sentr | Yes | No | <u> </u> |
| Remarks: | | | | | | | | | | | |
| | m is revised from No | | | | | | | IRCS Field | Indicators of | Hydric S | oils, |
| Rip rap slope | 2015 Errata. (http://v | ww.nrcs. | usda.gov/internet/F | SE_DOU | JUMENT | S/nrcs142 | 2p2_051293.docx) | | | | |
| | 5, 110 30113. | | | | | | | | | | |
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Upland CAAA-3- View facing south

Phase 1

SITE PHOTOGRAPHS

Champlain Hudson Power Express

| Project/Site: CHPE | City | /County: Dresden/ Washington | Sampling Date: 10/18/21 |
|--|--------------------------------------|---|-----------------------------|
| Applicant/Owner: TDI | | State: NY | Sampling Point: WET CAAA-17 |
| Investigator(s): N. Frazer, J. Greaves, C. Scriv | ner | Section, Township, Range: | |
| Landform (hillside, terrace, etc.): hillslope | Local relief | (concave, convex, none): Concave | Slope %: 2 |
| Subregion (LRR or MLRA): LRR R | Lat: 43-36-27.20N | Long: 73-25-55.56W | Datum: WGS 84 |
| Soil Map Unit Name: HLC - Hollis-Charlton as | sociation, moderately steep and st | teep NWI classification: | PEM1 |
| Are climatic / hydrologic conditions on the site ty | pical for this time of year? | Yes <u>x</u> No (If no, e | explain in Remarks.) |
| Are Vegetation <u>x</u> , Soil <u>x</u> , or Hydrold | gy <u>x</u> significantly disturbed? | Are "Normal Circumstances" prese | ent? Yes No x |
| Are Vegetation, Soil, or Hydrold | gynaturally problematic? | (If needed, explain any answers in | Remarks.) |
| SUMMARY OF FINDINGS – Attach s | ite map showing samplin | ig point locations, transects, in | nportant features, etc. |
| Hydrophytic Vegetation Present? | Yes X No 0 Is | the Sampled Area | |
| Hydric Soil Present? | res X No 0 wi | ithin a Wetland? Yes <u>X</u> | No |
| Wetland Hydrology Present? | Yes X No X If | yes, optional Wetland Site ID: Near Fla | ig CAAA-17 |
| Remarks: (Explain alternative procedures herr Palustrine Emergent Marsh - Cattail Marsh. Ec | | gent Marsh. From flag CAAA-15 to end c | onsists of this community. |
| | | | |
| | | | |
| | | | |
| HYDROLOGY | | | |
| Wetland Hydrology Indicators: | | Secondary Indicators (r | minimum of two required) |
| Primary Indicators (minimum of one is required | ; check all that apply) | Surface Soil Cracks | s (B6) |
| X Surface Water (A1) | X Water-Stained Leaves (B9) | Drainage Patterns | (B10) |

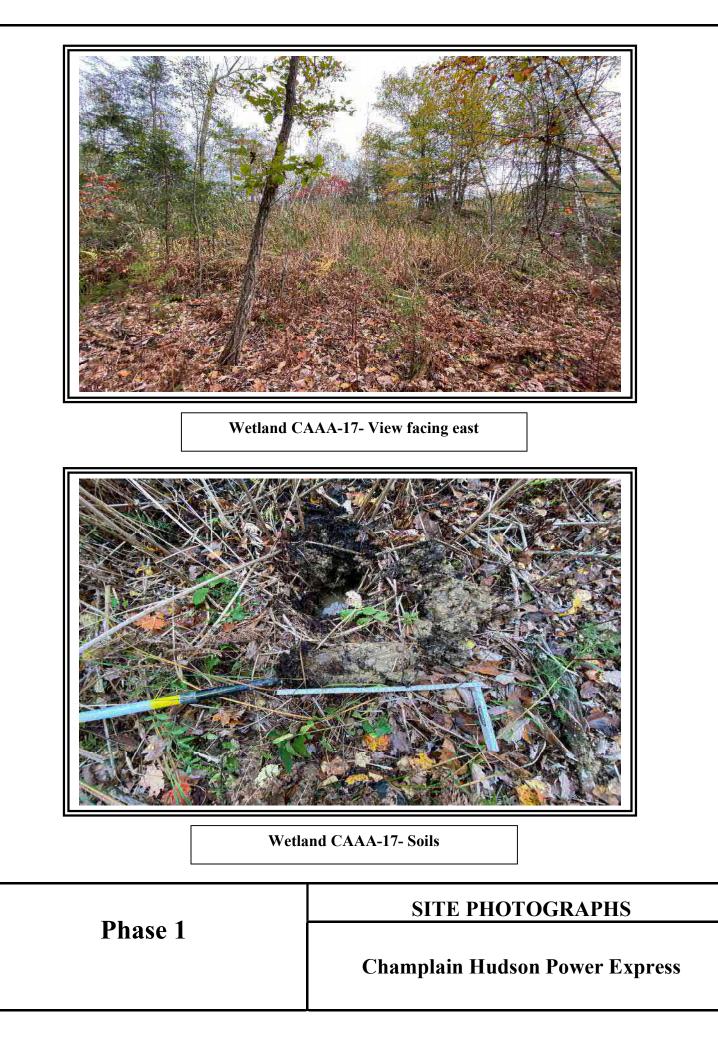
| X Surface Water (A1) | Drainage Patterns (B10) | | | | |
|---|--|---|--|--|--|
| X High Water Table (A2) | Aquatic Fauna (B13) | Moss Trim Lines (B16) | | | |
| X Saturation (A3) | Marl Deposits (B15) | Dry-Season Water Table (C2) | | | |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | Crayfish Burrows (C8) | | | |
| Sediment Deposits (B2) | X Oxidized Rhizospheres on Living Ro | ots (C3) Saturation Visible on Aerial Imagery (C9) | | | |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | Stunted or Stressed Plants (D1) | | | |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils | (C6) X Geomorphic Position (D2) | | | |
| Iron Deposits (B5) | Shallow Aquitard (D3) | | | | |
| Inundation Visible on Aerial Imagery (B7) | X Microtopographic Relief (D4) | | | | |
| Sparsely Vegetated Concave Surface (B8 | 3) | X FAC-Neutral Test (D5) | | | |
| Field Observations: | | | | | |
| Surface Water Present? Yes X | No Depth (inches):1 | | | | |
| Water Table Present? Yes X | No Depth (inches): 8 | | | | |
| Saturation Present? Yes X | No Depth (inches): 0 | Wetland Hydrology Present? Yes X No X | | | |
| (includes capillary fringe) | | | | | |
| Describe Recorded Data (stream gauge, mon | itoring well, aerial photos, previous inspec | ctions), if available: | | | |
| | | | | | |
| | | | | | |
| Remarks: | | | | | |
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Sampling Point: WET CAAA-17

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | | |
|---|-----------------------------|--------------------------------|----------------------------|--|--|--|
| 1. Quercus prinus | 5 | Yes | FACW | Number of Dominant Species | | |
| 2. Ulmus americana | 5 | Yes | FACW | Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A) | | |
| 3. Cornus racemosa | 2 | No | FAC | Total Number of Dominant | | |
| 4. Fraxinus americana | 2 | No | FACU | Species Across All Strata: 7 (B) | | |
| 5. Populus grandidentata | 1 | No | FACU | Demonst of Deminent Creation | | |
| 6. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 57.1% (A/I | | |
| 7. | | | | Prevalence Index worksheet: | | |
| | 15 | =Total Cover | | Total % Cover of: Multiply by: | | |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 40 x 1 = 40 | | |
| 1. Juniperus virginiana | 5 | Yes | FACU | FACW species 48 x 2 = 96 | | |
| 2. Lonicera morrowii | 5 | Yes | FACU | FAC species 14 x 3 = 42 | | |
| 3. Betula nigra | 1 | No | FACW | FACU species 25 x 4 = 100 | | |
| 4. | | | | UPL species 0 x 5 = 0 | | |
| 5. | | | | Column Totals: 127 (A) 278 (I | | |
| 6. | | | | Prevalence Index = B/A = 2.19 | | |
| 7. | | | | Hydrophytic Vegetation Indicators: | | |
| | 11 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation | | |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% | | |
| 1. Typha angustifolia | 40 | Yes | OBL | X 3 - Prevalence Index is ≤3.0 ¹ | | |
| 2. Onoclea sensibilis | 25 | Yes | FACW | 4 - Morphological Adaptations ¹ (Provide support | | |
| 3. Thelypteris palustris | 10 | No | FACW | data in Remarks or on a separate sheet) | | |
| 4. Solidago rugosa | 5 | No | FAC | Problematic Hydrophytic Vegetation ¹ (Explain) | | |
| | | | | Problematic Hydrophytic Vegetation" (Explain) | | |
| | 5 | No | FACU | | | |
| 5. Symphyotrichum ericoides | <u>5</u> 5 | No No | FACU FAC | | | |
| Symphyotrichum ericoides Euthamia graminifolia | | | | ¹ Indicators of hydric soil and wetland hydrology must | | |
| Symphyotrichum ericoides Euthamia graminifolia Quercus prinus | 5 | No | FAC | ¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Vegetation Strata: | | |
| Symphyotrichum ericoides Euthamia graminifolia Quercus prinus Acer rubrum | 5 | No No | FAC FACW | ¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Vegetation Strata: | | |
| Symphyotrichum ericoides Euthamia graminifolia Quercus prinus Acer rubrum Pteridium aquilinum | 5 2 2 | No No No | FAC FACW FAC | ¹Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height. | | |
| 5. Symphyotrichum ericoides 6. Euthamia graminifolia 7. Quercus prinus 8. Acer rubrum 9. Pteridium aquilinum 10. | 5 2 2 | No No No | FAC FACW FAC | ¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diame | | |
| Symphyotrichum ericoides Euthamia graminifolia Quercus prinus Acer rubrum Pteridium aquilinum 11. | 5 2 2 | No No No | FAC FACW FAC | ¹Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. | | |
| 5. Symphyotrichum ericoides 6. Euthamia graminifolia 7. Quercus prinus 8. Acer rubrum 9. Pteridium aquilinum 10. 11. | 5 2 2 2 2 | No No No | FAC FACW FAC | ¹Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. | | |
| 5. Symphyotrichum ericoides 6. Euthamia graminifolia 7. Quercus prinus 8. Acer rubrum 9. Pteridium aquilinum 10. 11. 12. | 5 2 2 2 2 | No No No | FAC FACW FAC | ¹Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. | | |
| Symphyotrichum ericoides 6. Euthamia graminifolia 7. Quercus prinus 8. Acer rubrum 9. Pteridium aquilinum 10. | 5 2 2 2 2 | No No No | FAC FACW FAC | ¹Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. | | |
| 5. Symphyotrichum ericoides 6. Euthamia graminifolia 7. Quercus prinus 8. Acer rubrum 9. Pteridium aquilinum 10. | 5 2 2 2 2 96 | No No No =Total Cover | FAC FACW FAC FACU | ¹Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft tall. | | |
| Symphyotrichum ericoides 6. Euthamia graminifolia 7. Quercus prinus 8. Acer rubrum 9. Pteridium aquilinum 10. | 5 2 2 2 2 96 | No No No =Total Cover | FAC FACW FAC FACU | ¹Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. | | |
| Symphyotrichum ericoides 6. Euthamia graminifolia 7. Quercus prinus 8. Acer rubrum 9. Pteridium aquilinum 10. | 5 2 2 2 2 96 | No No No =Total Cover | FAC FACW FAC FACU | ¹Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. | | |

SOIL

| Profile Desc | ription: (Describe | to the dep | oth needed to docu | ument th | e indica | tor or co | nfirm the absence of | indicators.) | | |
|---|--|------------|---------------------|-------------------|--------------------|------------------|--|--|--|--|
| Depth | Matrix | | | Redox Features | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | | |
| 0-2 | 10YR 2/1 | 100 | | | | | Loamy/Clayey | | | |
| 2-5 | 10YR 3/1 | 55 | 10YR 5/3 | 10 | С | М | Mucky Loam/Clay | Distinct redox concentrations | | |
| | | | 7.5YR 5/6 | 20 | С | М | | Prominent redox concentrations | | |
| | | | 5YR 4/6 | 15 | С | PL | | Prominent redox concentrations | | |
| 5-16 | 2.5Y 5/2 | 70 | 10YR 5/6 | 30 | С | M | Sandy | Prominent redox concentrations | | |
| | | · | | | | | · | | | |
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| | | · | | | | | · | | | |
| | | | | | | | | | | |
| | Dincentration, D=Depl | | | | | Grains | ² Location: Pl | L=Pore Lining, M=Matrix. | | |
| Hydric Soil | | | | IS=IVIASK | eu Sanu | Grains. | | or Problematic Hydric Soils ³ : | | |
| Histosol | | | Polyvalue Belo | ow Surfac | ce (S8) (I | _RR R, | | ick (A10) (LRR K, L, MLRA 149B) | | |
| Histic Ep | pipedon (A2) | MLRA 1498 | | | | | rairie Redox (A16) (LRR K, L, R) | | | |
| Black Histic (A3) Thin Dark Surface (S9) (LRR R | | | | | | , MLRA 1 | 49B) 5 cm Mu | icky Peat or Peat (S3) (LRR K, L, R) | | |
| Hydroge | n Sulfide (A4) | | High Chroma | Sands (S | 11) (LRF | R K, L) | Polyvalu | e Below Surface (S8) (LRR K, L) | | |
| Stratified | l Layers (A5) | | Loamy Mucky | Mineral (| F1) (LRF | R K, L) | Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) | | | |
| X Depleted | Below Dark Surface | e (A11) | Loamy Gleyed | Matrix (F | -2) | | | | | |
| Thick Da | ark Surface (A12) | 、 , | Depleted Matri | | , | | Piedmont Floodplain Soils (F19) (MLRA 149B) | | | |
| | lucky Mineral (S1) | | Redox Dark S | | 6) | | Mesic Spodic (TA6) (MLRA 144A, 145, 149B) | | | |
| | ileyed Matrix (S4) | | Depleted Dark | | | | Red Parent Material (F21) | | | |
| | | | | | | | | | | |
| X Sandy R | | | ? Redox Depres | | 5) | | Very Shallow Dark Surface (F22) Other (Explain in Remarks) | | | |
| | Matrix (S6) rface (S7) | | Marl (F10) (LR | (r r , l) | | | Other (Explain in Remarks) | | | |
| | | | | | | | | | | |
| | f hydrophytic vegetati Layer (if observed): | | etiand hydrology mu | st be pre | sent, uni | ess distu | rbed or problematic. | | | |
| Туре: | | | | | | | | | | |
| Depth (ir | nches): | | | | | | Hydric Soil Presen | nt? Yes <u>X</u> No | | |
| Remarks: | | | | | | | | | | |
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| Project/Site: CHPE | City/County: Dresden/ Washington Sampling Date: 10/18/21 |
|---|--|
| Applicant/Owner: TDI | State: NY Sampling Point: CAAA-17 Upi |
| Investigator(s): N. Frazer, J. Greaves, C. Scrivner | Section, Township, Range: |
| Landform (hillside, terrace, etc.): flat Local | relief (concave, convex, none): convex Slope %: 0 |
| Subregion (LRR or MLRA): LRR R Lat: 43-36-27.20N | Long: 73-25-55.56W Datum: |
| Soil Map Unit Name: Holiis-Charlton association | NWI classification: N/A |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes x No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly distur | bed? Are "Normal Circumstances" present? Yes x No |
| Are Vegetation, Soil, or Hydrologynaturally problema | atic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sam | pling point locations, transects, important features, etc. |

| Hydrophytic Vegetation Present? | Yes | No X | Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: |
|--|---------------------|-------------------|--|
| Hydric Soil Present? | Yes | No X | |
| Wetland Hydrology Present? | Yes | No X | |
| Remarks: (Explain alternative procedu Upland coniferous forest. | ires here or in a s | separate report.) | |

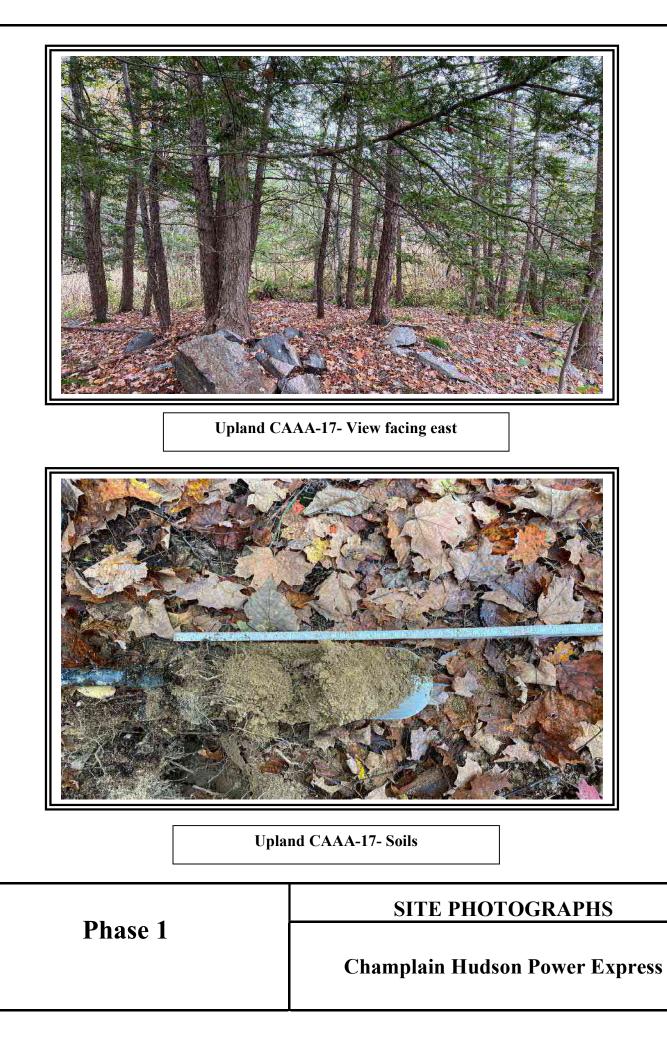
HYDROLOGY

| | Secondary Indicators (minimum of two required) | | | | | |
|----------------------------------|--|-------------------------------------|-----------------------|---|--|--|
| Primary Indicators (minimum of o | one is required; check a | ll that apply) | | Surface Soil Cracks (B6) | | |
| Surface Water (A1) | Water | -Stained Leaves (B9) | | Drainage Patterns (B10) | | |
| High Water Table (A2) | Aquat | ic Fauna (B13) | | Moss Trim Lines (B16) | | |
| Saturation (A3) | Marl D | Deposits (B15) | | Dry-Season Water Table (C2) | | |
| Water Marks (B1) | Hydro | gen Sulfide Odor (C1) | Crayfish Burrows (C8) | | | |
| Sediment Deposits (B2) | Oxidiz | ed Rhizospheres on Living Root | s (C3) | Saturation Visible on Aerial Imagery (C9) | | |
| Drift Deposits (B3) | Prese | nce of Reduced Iron (C4) | | Stunted or Stressed Plants (D1) | | |
| Algal Mat or Crust (B4) | Recer | nt Iron Reduction in Tilled Soils (| C6) . | Geomorphic Position (D2) | | |
| Iron Deposits (B5) | Thin M | /luck Surface (C7) | Shallow Aquitard (D3) | | | |
| Inundation Visible on Aerial | Imagery (B7) Other | (Explain in Remarks) | | Microtopographic Relief (D4) | | |
| Sparsely Vegetated Concave | e Surface (B8) | | | FAC-Neutral Test (D5) | | |
| Field Observations: | | | | | | |
| Surface Water Present? Ye | s No x | Depth (inches): | | | | |
| Water Table Present? Ye | s No x | Depth (inches): | | | | |
| Saturation Present? Ye | s No x | Depth (inches): | Wetland | d Hydrology Present? Yes No X | | |
| (includes capillary fringe) | | | | | | |
| (includes capillary tringe) | | | | | | |
| Describe Recorded Data (stream | n gauge, monitoring well | , aerial photos, previous inspecti | ons), if a | vailable: | | |
| Describe Recorded Data (stream | a gauge, monitoring well | , aerial photos, previous inspecti | ons), if a | vailable: | | |
| | a gauge, monitoring well | , aerial photos, previous inspecti | ons), if a | ivailable: | | |
| Describe Recorded Data (stream | n gauge, monitoring well | , aerial photos, previous inspecti | ons), if a | ivailable: | | |
| Describe Recorded Data (stream | a gauge, monitoring well | , aerial photos, previous inspecti | ions), if a | ivailable: | | |
| Describe Recorded Data (stream | a gauge, monitoring well | , aerial photos, previous inspecti | ions), if a | vailable: | | |
| Describe Recorded Data (stream | n gauge, monitoring well | , aerial photos, previous inspecti | ions), if a | ivailable: | | |
| Describe Recorded Data (stream | n gauge, monitoring well | , aerial photos, previous inspecti | ions), if a | ivailable: | | |
| Describe Recorded Data (stream | n gauge, monitoring well | , aerial photos, previous inspecti | ions), if a | ivailable: | | |
| Describe Recorded Data (stream | a gauge, monitoring well | , aerial photos, previous inspecti | ions), if a | ivailable: | | |
| Describe Recorded Data (stream | a gauge, monitoring well | , aerial photos, previous inspecti | ions), if a | ivailable: | | |

Sampling Point: CAAA-17 Upl

| | Absolute | Dominant | Indicator | |
|---|---------------|--------------|-----------|---|
| Tree Stratum (Plot size: 30') | % Cover | Species? | Status | Dominance Test worksheet: |
| 1. <u>Tsuga canadensis</u> | 95 | Yes | FACU | Number of Dominant Species |
| 2 | | | | That Are OBL, FACW, or FAC:(A) |
| 3 | | | | Total Number of Dominant |
| 4 | | | | Species Across All Strata: 5 (B) |
| 5. | | | | Percent of Dominant Species |
| 6. | | | | That Are OBL, FACW, or FAC: 0.0% (A/B) |
| 7. | | | | Prevalence Index worksheet: |
| | 95 | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 0 x 1 = 0 |
| 1. Fagus grandifolia | 2 | No | FACU | FACW species 0 x 2 = 0 |
| 2. Viburnum acerifolium | 15 | Yes | UPL | FAC species $0 \times 3 = 0$ |
| 3. Quercus montana | 10 | Yes | UPL | FACU species 105 x 4 = 420 |
| 4. | | | | UPL species $32 \times 5 = 160$ |
| | | | | |
| | | | | |
| 6. | | | | Prevalence Index = B/A = 4.23 |
| 7 | | | | Hydrophytic Vegetation Indicators: |
| | 27 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% |
| 1. <u>Pteridium aquilinum</u> | 8 | Yes | FACU | 3 - Prevalence Index is ≤3.0 ¹ |
| 2. Viburnum acerifolium | 2 | No | UPL | 4 - Morphological Adaptations ¹ (Provide supporting |
| 3. Quercus montana | 5 | Yes | UPL | data in Remarks or on a separate sheet) |
| 4 | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5 | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 6. | | | | be present, unless disturbed or problematic. |
| 7. | | | | Definitions of Vegetation Strata: |
| 8. | | | | _ |
| 9. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 10. | | | | |
| | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | | | | Herb – All herbaceous (non-woody) plants, regardless |
| | 15 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | Woody vines – All woody vines greater than 3.28 ft in |
| 1 | | | | height. |
| 2 | | | | Hydrophytic |
| 3 | | | | Vegetation |
| 4 | | | | Present? Yes No X |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a sepa | arate sheet.) | | | |
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| Profile Desc | ription: (Describe | to the de | pth needed to docu | ument ti | he indica | tor or co | onfirm the absence of ind | licators.) | |
|-------------------------|------------------------|------------|------------------------|-------------------|-------------------|------------------|-----------------------------|--|--|
| Depth | Matrix | | Redo | x Featur | es | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-16 | 10YR 5/6 | 100 | | | | | Sandy | | |
| | 10111 3/0 | 100 | | | | | Gandy | | |
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| ¹ Type: C=Co | oncentration, D=Dep | letion. RM | I=Reduced Matrix, N | /IS=Mas | ked Sand | Grains. | ² Location: PL=P | ore Lining, M=Matrix. | |
| Hydric Soil I | | | | | | | | roblematic Hydric Soils ³ : | |
| Histosol | | | Polyvalue Belo | w Surfa | ce (S8) (I | RR R. | | A10) (LRR K, L, MLRA 149B) | |
| | ipedon (A2) | | MLRA 149B | | | | | Redox (A16) (LRR K, L, R) | |
| Black His | | | Thin Dark Surf | , | | MIRA | | Peat or Peat (S3) (LRR K, L, R) | |
| | n Sulfide (A4) | | High Chroma S | | - | | | elow Surface (S8) (LRR K, L) | |
| | Layers (A5) | | Loamy Mucky | | | | | Inface (S9) (LRR K, L) | |
| | Below Dark Surface | (A11) | Loamy Gleyed | | | 、 ∩, ∟) | | ese Masses (F12) (LRR K, L, R) | |
| | | = (ATT) | | | [2] | | | | |
| | rk Surface (A12) | | Depleted Matri | | () | | | odplain Soils (F19) (MLRA 149B) | |
| | ucky Mineral (S1) | | Redox Dark Su | `` | , | | | c (TA6) (MLRA 144A, 145, 149B) | |
| | leyed Matrix (S4) | | Depleted Dark | | | | | Material (F21) | |
| | edox (S5) | | Redox Depres | | 8) | | | / Dark Surface (F22) | |
| | Matrix (S6) | | Marl (F10) (LR | (R K, L) | | | Other (Expla | in in Remarks) | |
| Dark Sur | face (S7) | | | | | | | | |
| 3 | | | | | | | | | |
| | | | etland hydrology mu | ust be pi | resent, ur | iless dist | urbed or problematic. | | |
| | ayer (if observed): | | | | | | | | |
| Туре: | non | e | | | | | | | |
| Depth (ir | iches): | | | | | | Hydric Soil Present? | Yes <u>No X</u> | |
| Remarks: | | | | | | | | | |
| | m is revised from No | orthcentra | l and Northeast Reg | ional Su | pplement | Version | 2.0 to include the NRCS F | ield Indicators of Hydric Soils, | |
| | 2015 Errata. (http://v | | | | | | | • | |
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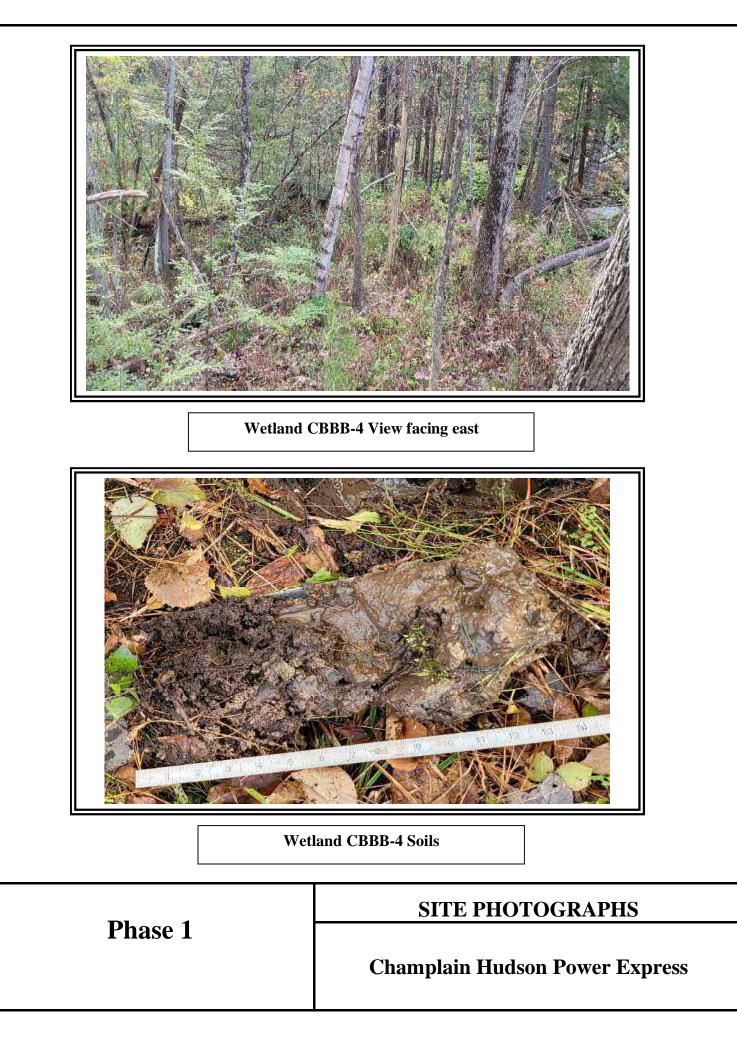
| Applicant/Owner: TDI State: NY Sampling Point: WET CBE | 1 |
|--|------|
| | BB-4 |
| Investigator(s): J. Greaves, C. Scrivner Section, Township, Range: | |
| Landform (hillside, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope %: 2 | , |
| Subregion (LRR or MLRA): LRR R Lat: 43-36-24.55N Long: 73-25-54.15W Datum: WGS 84 | |
| | - |
| Soil Map Unit Name: <u>HLE - Hollis-Charlton association, moderately steep and steep</u> NWI classification: <u>PFO1</u> | |
| Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) | |
| Are Vegetation, Soil, or Hydrologysignificantly disturbed? Are "Normal Circumstances" present? Yes X No | — |
| Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, explain any answers in Remarks.) | |
| SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, et | tc. |
| Hydrophytic Vegetation Present? Yes X No Is the Sampled Area | |
| Hydric Soil Present? Yes X No within a Wetland? Yes X No | |
| Wetland Hydrology Present? Yes X No If yes, optional Wetland Site ID: Near Flag WET CBBB-4 | |
| Remarks: (Explain alternative procedures here or in a separate report.) | _ |
| Palustrine Forested Wetland. Edinger classification: Red-maple Hardwood Swamp. | |
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| HYDROLOGY | |
| Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) | |
| Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) | |
| Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) | |
| X High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) | |
| X Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) | |
| Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) | |
| Sediment Deposits (B2) X Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) | |
| | |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) | |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) | |
| Drift Deposits (B3)Presence of Reduced Iron (C4)Stunted or Stressed Plants (D1)Algal Mat or Crust (B4)Recent Iron Reduction in Tilled Soils (C6)X Geomorphic Position (D2)Iron Deposits (B5)Thin Muck Surface (C7)Shallow Aquitard (D3) | |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) X Microtopographic Relief (D4) | |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) X Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5) | |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) X Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) Y FAC-Neutral Test (D5) | |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) X Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) Yes No X Field Observations: Surface Water Present? Yes No | |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) X FAC-Neutral Test (D4) Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes Water Table Present? Yes No Depth (inches): 6 Kater Present Yes Kater Present | |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) X Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5) Field Observations: No Depth (inches): Water Table Present? Yes X Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No | |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) X FAC-Neutral Test (D4) Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes Water Table Present? Yes No Depth (inches): 6 Kater Present Yes Kater Present | |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) X Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) Ves No Depth (inches): Water Table Present? Yes X No Depth (inches): Gaturation Present? Yes X No Depth (inches): 6 (includes capillary fringe) Ves X No Depth (inches): 0 | |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) X Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) Ves No Depth (inches): Water Table Present? Yes X No Depth (inches): Gaturation Present? Yes X No Depth (inches): 6 (includes capillary fringe) Ves X No Depth (inches): 0 | |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) X Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) Ves No Depth (inches): Water Table Present? Yes X No Depth (inches): Gaturation Present? Yes X No Depth (inches): 6 (includes capillary fringe) Ves X No Depth (inches): 0 | |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) X Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes Surface Water Present? Yes No Depth (inches): Water Table Present? Yes X No Depth (inches): (includes capillary fringe) Depth (aerial photos, previous inspections), if available: Yes X No | |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) X Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes Surface Water Present? Yes No Depth (inches): Water Table Present? Yes X No Depth (inches): (includes capillary fringe) Depth (aerial photos, previous inspections), if available: Yes X No | |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) X Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes Surface Water Present? Yes No Depth (inches): Water Table Present? Yes X No Depth (inches): (includes capillary fringe) Depth (aerial photos, previous inspections), if available: Yes X No | |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) X Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes Surface Water Present? Yes No Depth (inches): Water Table Present? Yes X No Depth (inches): (includes capillary fringe) Depth (aerial photos, previous inspections), if available: Yes X No | |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) X Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes Surface Water Present? Yes No Depth (inches): Water Table Present? Yes X No Depth (inches): (includes capillary fringe) Depth (aerial photos, previous inspections), if available: Yes X No | |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) X Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes Surface Water Present? Yes No Depth (inches): Water Table Present? Yes X No Depth (inches): (includes capillary fringe) Depth (aerial photos, previous inspections), if available: Yes X No | |

Sampling Point: WET CBBB-4

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | | | |
|--|---------------------|----------------------|---------------------|--|---|----------|--|
| 1. Acer rubrum | 10 | Yes | FAC | | | | |
| 2. Tsuga canadensis | 10 | Yes | FACU | Number of Dominant Species That Are OBL, FACW, or FAC: | 9 | (A) | |
| 3. Quercus prinus | 10 | Yes | FACW | Total Number of Dominant | | - | |
| 4. Betula papyrifera | 5 | No | FACU | Species Across All Strata: | 14 | (B) | |
| 5. Populus tremuloides | 5 | No | FACU | Deveent of Deminent Creation | | - | |
| 6. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: | 64.3% | (A/B | |
| 7. | | | | Prevalence Index worksheet: | | | |
| | 40 | =Total Cover | | Total % Cover of: | Multiply by: | | |
| Sapling/Shrub Stratum (Plot size: 15' |) | | | OBL species 25 x | 1 = 25 | | |
| 1. Tsuga canadensis | 10 | Yes | FACU | FACW species 63 x | 2 = 126 | | |
| 2. Quercus prinus | 8 | Yes | FACW | FAC species 30 x | 3 = 90 | | |
| 3. Lonicera morrowii | 5 | Yes | FACU | FACU species 55 x | 4 = 220 | | |
| 4. Pinus strobus | 5 | Yes | FACU | UPL species 0 x | x 5 = 0 | | |
| 5. Hamamelis virginiana | 5 | Yes | FACU | Column Totals: 173 (A | A) 461 | (B | |
| 6. Acer rubrum | 5 | Yes | FAC | Prevalence Index = B/A = | = 2.66 | | |
| 7. | _ | | | Hydrophytic Vegetation Indicat | tors: | <u> </u> | |
| | 38 | =Total Cover | | 1 - Rapid Test for Hydrophyt | ic Vegetation | | |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% | - | | |
| 1. Onoclea sensibilis | 20 | Yes | FACW | X 3 - Prevalence Index is ≤3.0 | 1 | | |
| 2. Epilobium coloratum | 15 | Yes | OBL | 4 - Morphological Adaptation | ns ¹ (Provide su | pportin | |
| 3. Solidago gigantea | 10 | Yes | FACW | data in Remarks or on a s | separate sheet) | | |
| 4. Carex lurida | 10 | Yes | OBL | Problematic Hydrophytic Vegetation ¹ (Explain) | | | |
| 5. Equisetum arvense | 10 | Yes | FAC | ¹ Indicators of hydric soil and wetland hydrology mus | | | |
| 6. Symphyotrichum novae-angliae | 5 | No | FACW | present, unless disturbed or prob | , ,, | music | |
| 7. Quercus prinus | 5 | No | FACW | Definitions of Vegetation Strate | a: | | |
| 8. Polystichum acrostichoides | 5 | No | FACU | Tree – Woody plants 3 in. (7.6 ci | m) or moro in d | liamot | |
| 9. Tsuga canadensis | 5 | No | FACU | at breast height (DBH), regardles | , | amete | |
| 10. Acer rubrum | 5 | No | FAC | Sapling/shrub – Woody plants l | oss than 2 in F | עסר | |
| 11. Impatiens capensis | 5 | No | FACW | and greater than or equal to 3.28 | | | |
| 12. | | | | Herb – All herbaceous (non-woo | du) plante rog | ordloce | |
| | 95 | =Total Cover | | of size, and woody plants less th | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | arules | |
| Woody Vine Stratum (Plot size: 30' |) | | | Woody vines – All woody vines | areater than 3 ' | 28 ft in | |
| 1 | | | | height. | greater than 5. | 20 11 11 | |
| 2. | | | | | | | |
| 3. | | | | Hydrophytic Vegetation | | | |
| 4. | | | | Present? Yes X | No | | |
| | | =Total Cover | | | | | |
| Remarks: (Include photo numbers here or on a sep | | = I otal Cover | | | | | |

SOIL

| Profile Desc | ription: (Describe | to the de | oth needed to docu | ment th | e indica | tor or co | nfirm the absence of | indicators.) |
|---------------|----------------------|-----------|-----------------------------|-----------|-------------------|-------------------|----------------------|--|
| Depth | Matrix | | Redo | x Featur | es | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-7 | 10YR 2/1 | 97 | 10YR 3/6 | 3 | С | PL | Loamy/Clayey | Prominent redox concentrations |
| 7-16 | 10YR 4/1 | 65 | 10YR 5/4 | 30 | С | М | Loamy/Clayey | Distinct redox concentrations |
| | | · | 10YR 4/6 | 5 | С | М | | Prominent redox concentrations |
| | | | | | | | | |
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| | | etion, RM | =Reduced Matrix, M | S=Mask | ed Sand | Grains. | | L=Pore Lining, M=Matrix. |
| Hydric Soil I | | | Daharahan Dala | 0 | | | | or Problematic Hydric Soils ³ : |
| Histosol | (A1) ipedon (A2) | | Polyvalue Belo MLRA 149B | | e (58) (I | .RR R, | | ck (A10) (LRR K, L, MLRA 149B) cairie Redox (A16) (LRR K, L, R) |
| Black His | | | Thin Dark Surfa | , | | MIRA 1 | | icky Peat or Peat (S3) (LRR K, L, R) |
| | n Sulfide (A4) | | High Chroma S | | | | | e Below Surface (S8) (LRR K, L) |
| | Layers (A5) | | Loamy Mucky I | | | | | k Surface (S9) (LRR K, L) |
| | Below Dark Surface | Δ11) | Loamy Gleyed | | | (I (, Ľ) | | nganese Masses (F12) (LRR K, L, R) |
| | rk Surface (A12) | ,(,,,,,) | X Depleted Matrix | | 2) | | | t Floodplain Soils (F19) (MLRA 149B) |
| | ucky Mineral (S1) | | X Redox Dark Su | | 6) | | | podic (TA6) (MLRA 144A, 145, 149B) |
| | leyed Matrix (S4) | | Depleted Dark | | | | | ent Material (F21) |
| | edox (S5) | | Redox Depress | | . , | | | allow Dark Surface (F22) |
| | Matrix (S6) | | Marl (F10) (LR | , | , | | | xplain in Remarks) |
| Dark Sur | face (S7) | | | | | | | |
| | | | | | | | | |
| | | | etland hydrology mus | st be pre | sent, unl | ess distu | rbed or problematic. | |
| | .ayer (if observed): | | | | | | | |
| Type: | ah aa). | | | | | | Undria Sail Draaar | |
| Depth (ir | | | | | | | Hydric Soil Preser | nt? Yes <u>X</u> No |
| Remarks: | | | | | | | | |
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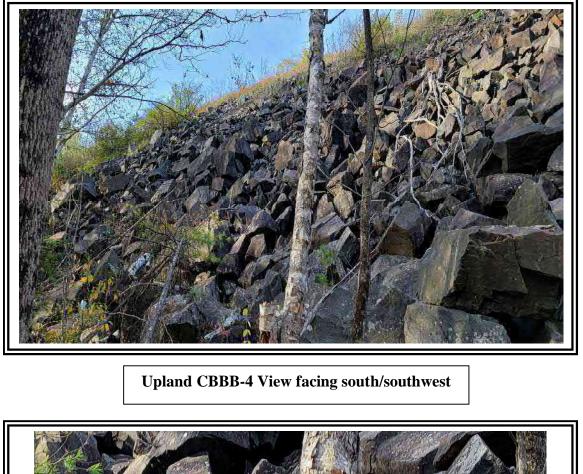
| Project/Site: CHPE | City/County: Dresden / Washington Sampling Date: 10/19/21 |
|--|--|
| Applicant/Owner: TDI | State: NY Sampling Point: UPL CBBB-4 |
| Investigator(s): J. Greaves, C. Scrivner | Section, Township, Range: |
| Landform (hillside, terrace, etc.): Hillslope Local | relief (concave, convex, none): Concave Slope %: 55 |
| Subregion (LRR or MLRA): LRR R Lat: 43-36-24.42N | Long: 73-25-54.97W Datum: WGS 84 |
| Soil Map Unit Name: HLE - Hollis-Charlton association, moderately steep a | and steep NWI classification: NA |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes X No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly disturb | bed? Are "Normal Circumstances" present? Yes X No |
| Are Vegetation, Soil, or Hydrologynaturally problema | tic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sam | pling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No X | Is the Sampled Area |
| Hydric Soil Present? Yes No X | within a Wetland? Yes No X |
| Wetland Hydrology Present? Yes No X | If yes, optional Wetland Site ID: |
| Remarks: (Explain alternative procedures here or in a separate report.) Riprap roadside embankment. | |
| | |
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| | |
| L HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1)Water-Stained Leaves (E | |

| High Water Table (A2) | Aquatic Fauna (B13) | Moss Trim Lines (B16) |
|--|---|---|
| Saturation (A3) | Marl Deposits (B15) | Dry-Season Water Table (C2) |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | Crayfish Burrows (C8) |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Roots (| C3) Saturation Visible on Aerial Imagery (C9) |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | Stunted or Stressed Plants (D1) |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils (C6) | Geomorphic Position (D2) |
| Iron Deposits (B5) | Thin Muck Surface (C7) | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) | Other (Explain in Remarks) | Microtopographic Relief (D4) |
| Sparsely Vegetated Concave Surface (B8 | 3) | FAC-Neutral Test (D5) |
| Field Observations: | | |
| Surface Water Present? Yes | No X Depth (inches): | |
| Water Table Present? Yes | No X Depth (inches): | |
| Saturation Present? Yes | No X Depth (inches): We | etland Hydrology Present? Yes No X |
| (includes capillary fringe) | | |
| Describe Recorded Data (stream gauge, moni | itoring well, aerial photos, previous inspections | s), if available: |
| | | |
| | | |
| Remarks: | | |
| | | |
| | | |

Sampling Point: UPL CBBB-4

| | Absolute | Dominant | Indicator | | _ |
|--|----------|--------------|-----------|--|----------|
| Tree Stratum (Plot size: <u>30'</u>) | % Cover | Species? | Status | Dominance Test worksheet: | |
| 1. 2. | | · | | Number of Dominant Species That Are OBL, FACW, or FAC: (A) | |
| 3 | | | | Total Number of Dominant Species Across All Strata:(B) | |
| 5 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B | 3) |
| 7. | | · | | Prevalence Index worksheet: | <i>,</i> |
| | | =Total Cover | | Total % Cover of: Multiply by: | |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 0 $x 1 = 0$ | |
| 1. Pinus strobus | 1 | No | FACU | FACW species $0 	 x 2 = 0$ | |
| 2. | | | | FAC species $0 \times 3 = 0$ | |
| 3. | | | | FACU species 3 x 4 = 12 | |
| 4. | | | | UPL species 0 x 5 = 0 | |
| 5. | | | | Column Totals: 3 (A) 12 (B | 3) |
| 6. | | | | Prevalence Index = $B/A = 4.00$ | , |
| 7 | | | | Hydrophytic Vegetation Indicators: | |
| ·· | | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation | |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% | |
| 1. Taraxacum officinale | 1 | No | FACU | 3 - Prevalence Index is ≤3.0 ¹ | |
| 2. Rubus allegheniensis | | | FACU | 4 - Morphological Adaptations ¹ (Provide supportir | na |
| 3 | | | | data in Remarks or on a separate sheet) | .9 |
| 4. | | | | Problematic Hydrophytic Vegetation ¹ (Explain) | |
| 5 | | | | ¹ Indicators of hydric soil and wetland hydrology must b present, unless disturbed or problematic. | be |
| 7. | | | | Definitions of Vegetation Strata: | |
| 8 | | · | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. | er |
| 10. | | | | | |
| 11. | | | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. | |
| 12 | | Total Cause | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. | S |
| Weady Vine Stratum (Plat size) 201 | 2 | =Total Cover | | or size, and woody plants less than 3.28 it tall. | |
| Woody Vine Stratum (Plot size:30') 1. | | | | Woody vines – All woody vines greater than 3.28 ft in height. | ۱ |
| 2 | | | | the fear factor | |
| 3 | | | | Hydrophytic Vegetation | |
| 4 | | | | Present? Yes No X | |
| | | =Total Cover | | | |
| Remarks: (Include photo numbers here or on a separ Vegetation was mostly not present due to the signification | , | f riprap. | | | |

| Profile Desc | ription: (Describe t | to the de | pth needed to docu | iment th | e indica | tor or co | nfirm the absence of indicat | ors.) | |
|---------------------------|------------------------|-----------|------------------------|-----------|-------------------|------------------|--------------------------------|--------------------------|---------------|
| Depth | Matrix | | Redo | x Featu | res | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| | | | | | | | | | |
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| | | | | | | | | | |
| | oncentration, D=Depl | etion RM | -Reduced Matrix M | S-Mask | bree be | Grains | ² Location: PL=Pore | Lining M-Matrix | , |
| Hydric Soil | | | | 0=111231 | cu danu | Oranis. | Indicators for Prob | | |
| - | | | Dobucoluo Polo | w Surfo | | | | - | |
| Histosol | | | Polyvalue Belo | | ce (30) (L | _КК К, | |)) (LRR K, L, ML | |
| | bipedon (A2) | | MLRA 149B | , | | | | edox (A16) (LRR | |
| Black Hi | . , | | Thin Dark Surf | | | | | at or Peat (S3) (L | |
| | n Sulfide (A4) | | High Chroma S | | | | | v Surface (S8) (L | |
| Stratified | d Layers (A5) | | Loamy Mucky | Mineral | (F1) (LRF | R K, L) | Thin Dark Surfa | ce (S9) (LRR K , | L) |
| Depleted | d Below Dark Surface | e (A11) | Loamy Gleyed | Matrix (| F2) | | Iron-Manganese | e Masses (F12) (| LRR K, L, R) |
| Thick Da | ark Surface (A12) | | Depleted Matri | x (F3) | | | Piedmont Flood | plain Soils (F19) | (MLRA 149B) |
| Sandy M | lucky Mineral (S1) | | Redox Dark Su | urface (F | 6) | | Mesic Spodic (T | A6) (MLRA 144 | A, 145, 149B) |
| Sandy G | leyed Matrix (S4) | | Depleted Dark | Surface | (F7) | | Red Parent Mat | erial (F21) | |
| Sandy R | edox (S5) | | Redox Depres | sions (F | 8) | | Very Shallow Da | ark Surface (F22) |) |
| | Matrix (S6) | | Marl (F10) (LR | | , | | Other (Explain i | | |
| | rface (S7) | | | . , | | | | , | |
| | | | | | | | | | |
| ³ Indicators o | f hydrophytic vegetati | ion and w | otland hydrology mu | ct bo pr | acont unl | occ dictu | rhad ar problomatic | | |
| | Layer (if observed): | | eliand hydrology mu | st be pit | sent, un | 633 01310 | | | |
| | | ouldoro | | | | | | | |
| Type: | Riprap / B | | | | | | | | |
| Depth (ii | nches): | 0 | | | | | Hydric Soil Present? | Yes | No <u>X</u> |
| Remarks: | | | | | | | | | |
| | of large pieces of rip | rap. | | | | | | | |
| | 0 1 1 | | | | | | | | |
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Upland CBBB-4 Soils

Phase 1

SITE PHOTOGRAPHS

Champlain Hudson Power Express

| Project/Site: CHPE | City/County: Dresden / Washington Sampling Date: 10/19/21 |
|---|--|
| Applicant/Owner: TDI | State: NY Sampling Point: WET CCCC-1 |
| Investigator(s): J. Greaves, C. Scrivner | Section, Township, Range: |
| Landform (hillside, terrace, etc.): Hillslope Local r | relief (concave, convex, none): Concave Slope %: 2 |
| Subregion (LRR or MLRA): LRR R Lat: 43-36-21.69N | Long: 73-25-53.50W Datum: WGS 84 |
| Soil Map Unit Name: HLE - Hollis-Charlton association, moderately steep a | nd steep NWI classification: PEM2 |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes X No (If no, explain in Remarks.) |
| Are Vegetation , Soil , or Hydrology significantly disturb | |
| | |
| Are Vegetation, Soil, or Hydrologynaturally problemat SUMMARY OF FINDINGS – Attach site map showing sam | |
| Solimmart OF Findings – Allach sile map showing sam | pling point locations, transects, important reatures, etc. |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No |
| Wetland Hydrology Present? Yes X No | If yes, optional Wetland Site ID: Near Flag WET CCCC-1 |
| Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh. Edinger classification: Shallow Emergent Marsh | ٦. |
| L HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1)Water-Stained Leaves (B | 39) Drainage Patterns (B10) |
| X High Water Table (A2) Aquatic Fauna (B13) | Moss Trim Lines (B16) |
| X Saturation (A3) Marl Deposits (B15) | Dry-Season Water Table (C2) |
| Water Marks (B1) Hydrogen Sulfide Odor (C | |
| Sediment Deposits (B2) Oxidized Rhizospheres o | |
| Drift Deposits (B3) Presence of Reduced Iro | |
| Algal Mat or Crust (B4) Recent Iron Reduction in | |
| Iron Deposits (B5) Thin Muck Surface (C7) | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark Sparsely Vegetated Concave Surface (B8) | (s) Microtopographic Relief (D4) FAC-Neutral Test (D5) |
| | |
| Field Observations: Surface Water Present? Yes No X Depth (inches): | |
| Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes X No Depth (inches): | |
| Saturation Present? Yes X No Depth (inches): | |
| (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev | vious inspections), if available: |
| | |
| Remarks: | |
| Remarks. | |
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Sampling Point: WET CCCC-1

| . Pinus strobus | % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|---------------------------------------|------------|----------------------|---------------------|---|
| | 5 | Yes | FACU | Number of Dominant Species |
| 2. Quercus rubra | 5 | Yes | FACU | That Are OBL, FACW, or FAC: (A |
| 3 I. | . <u> </u> | | | Total Number of Dominant Species Across All Strata: 5 (B |
| · | | · | | |
|). | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 40.0% (A |
| · | | | | Prevalence Index worksheet: |
| | 10 | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15' |) | | | OBL species 0 x 1 = 0 |
| . Lonicera morrowii | 15 | Yes | FACU | FACW species 77 x 2 = 154 |
| 2. Cornus amomum | 10 | Yes | FACW | FAC species x 3 =69 |
| 3. Tsuga canadensis | 5 | No | FACU | FACU species <u>35</u> x 4 = <u>140</u> |
| l | | | | UPL species 0 x 5 = 0 |
| j | | | | Column Totals: 135 (A) 363 |
|) | | | | Prevalence Index = B/A = 2.69 |
| | | | | Hydrophytic Vegetation Indicators: |
| | 30 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% |
| . Onoclea sensibilis | 55 | Yes | FACW | X_3 - Prevalence Index is ≤3.0 ¹ |
| 2. Solidago rugosa | 10 | No | FAC | 4 - Morphological Adaptations ¹ (Provide suppor |
| 3. <u>Equisetum arvense</u> | 8 | No | FAC | data in Remarks or on a separate sheet) |
| Euthamia graminifolia | 5 | No | FAC | Problematic Hydrophytic Vegetation ¹ (Explain) |
| Solidago gigantea | 5 | No | FACW | ¹ Indicators of hydric soil and wetland hydrology mus |
| 6. Cornus amomum | 5 | No | FACW | present, unless disturbed or problematic. |
| . Lonicera morrowii | 5 | No | FACU | Definitions of Vegetation Strata: |
| 3. Symphyotrichum novae-angliae | 2 | No | FACW | Tree – Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height. |
| 0. | | | | |
| 1. | | | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. |
| 2 | | | | Herb – All herbaceous (non-woody) plants, regardle |
| | 95 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| Voody Vine Stratum (Plot size: 30' |) | | | Woody vines – All woody vines greater than 3.28 ft |
| | | | | height. |
| <u> </u> | | | | |
| 3 | | | | Hydrophytic Vegetation |
| L. | | | | Present? Yes X No |
| | | =Total Cover | | |
| | | | | |

SOIL

| Profile Desc | ription: (Describe t | o the dep | oth needed to docu | ment th | e indica | tor or co | onfirm the absence of | indicators.) |
|----------------------------|----------------------|-----------|----------------------|-----------|--------------------|---------------------|--------------------------|--|
| Depth | Matrix | | Redo | x Featur | es | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-5 | 10YR 2/2 | 95 | 10YR 4/3 | 5 | С | М | Loamy/Clayey | Faint redox concentrations |
| 5-16 | 2.5Y 5/1 | 60 | 10YR 5/6 | 30 | С | М | Mucky Loam/Clay | Prominent redox concentrations |
| | | | 10YR 2/1 | 5 | С | М | | Prominent redox concentrations |
| | | | 10YR 5/4 | 5 | С | М | | Prominent redox concentrations |
| | | | | | | | | |
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| | oncentration, D=Depl | otion PM | -Roducod Matrix M | S-Mack | od Sand | Graine | ² Location: P | L=Pore Lining, M=Matrix. |
| Hydric Soil I | | | | | eu Sanu | Grains. | | or Problematic Hydric Soils ³ : |
| Histosol | | | ? Polyvalue Belo | w Surfac | ce (S8) (I | _RR R, | | ick (A10) (LRR K, L, MLRA 149B) |
| | ipedon (A2) | | MLRA 1498 | | . , . | | | rairie Redox (A16) (LRR K, L, R) |
| Black His | stic (A3) | | Thin Dark Surfa | ace (S9) | (LRR R, | , MLRA [·] | 149B) 5 cm Mu | icky Peat or Peat (S3) (LRR K, L, R) |
| Hydroger | n Sulfide (A4) | | High Chroma S | Sands (S | 11) (LRF | R K, L) | Polyvalu | e Below Surface (S8) (LRR K, L) |
| Stratified | Layers (A5) | | Loamy Mucky I | Mineral (| F1) (LRF | R K, L) | Thin Dar | rk Surface (S9) (LRR K, L) |
| X Depleted | Below Dark Surface | e (A11) | Loamy Gleyed | Matrix (F | -2) | | ? Iron-Mar | nganese Masses (F12) (LRR K, L, R) |
| Thick Da | rk Surface (A12) | | X Depleted Matrix | x (F3) | | | Piedmon | nt Floodplain Soils (F19) (MLRA 149B) |
| Sandy M | ucky Mineral (S1) | | Redox Dark Su | urface (F | 6) | | Mesic Sp | podic (TA6) (MLRA 144A, 145, 149B) |
| Sandy G | leyed Matrix (S4) | | Depleted Dark | Surface | (F7) | | Red Pare | ent Material (F21) |
| Sandy R | edox (S5) | | Redox Depress | sions (F8 | 3) | | Very Sha | allow Dark Surface (F22) |
| Stripped | Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other (E | xplain in Remarks) |
| Dark Sur | face (S7) | | | | | | | |
| ³ Indicators of | hydrophytic vegetati | on and w | etland hydrology mus | st ha nra | sont unl | oss disti | urbed or problematic | |
| | .ayer (if observed): | | etiand hydrology mus | st be pre | sent, un | 633 01310 | | |
| Type: | | | | | | | | |
| Depth (ir | nches): | | | | | | Hydric Soil Preser | nt? Yes <u>X</u> No |
| Remarks: | | | | | | | 1 | |
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Wetland CCCC-1 View facing south/southwest



Wetland CCCC-1 Soils

Phase 1

SITE PHOTOGRAPHS

Champlain Hudson Power Express

| Project/Site: CHPE | | | City/County: Dresden | / Washington | Sampling Date: 10/19/21 |
|--------------------------------------|-----------------------------|------------------------|------------------------|--------------------------|----------------------------|
| Applicant/Owner: TDI | | | | State: NY | Sampling Point: UPL CCCC-1 |
| Investigator(s): J. Greaves, C. So | crivner | | Section, Tow | nship, Range: | |
| Landform (hillside, terrace, etc.): | Hillslope | Local re | elief (concave, convex | , none): <u>Convex</u> | Slope %: 3 |
| Subregion (LRR or MLRA): LRR | र R Lat: | 43-36-21.98N | Long: | 73-25-53.79W | Datum: WGS 84 |
| Soil Map Unit Name: HLE - Hollis | is-Charlton association, | moderately steep an | nd steep | NWI classification: | NA |
| Are climatic / hydrologic conditions | s on the site typical for t | his time of year? | Yes X | No (If no, ex | xplain in Remarks.) |
| Are Vegetation, Soil | , or Hydrology | significantly disturbe | | | nt? Yes X No |
| Are Vegetation, Soil | | | | , explain any answers in | |
| SUMMARY OF FINDINGS | | | | | |
| | | | oning point locat | | portant reatures, etc. |
| Hydrophytic Vegetation Present? | ? Yes | | Is the Sampled Are | ea | |
| Hydric Soil Present? | Yes | No X | within a Wetland? | Yes | No X |
| Wetland Hydrology Present? | Yes | No X | If yes, optional Wetl | | |
| Remarks: (Explain alternative pr | rocedures here or in a se | eparate report.) | | | |
| Beech Maple Mesic Forest. | | | | | |
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| HYDROLOGY | | | | | |
| Wetland Hydrology Indicators: | | | | Secondary Indicators (m | inimum of two required) |
| Primary Indicators (minimum of c | one is required; check al | l that apply) | | Surface Soil Cracks | (B6) |
| Surface Water (A1) | Wate | r-Stained Leaves (B9 | 9) | Drainage Patterns (I | B10) |
| High Water Table (A2) | Aquat | tic Fauna (B13) | | Moss Trim Lines (B1 | 16) |
| Saturation (A3) | Marl [| Deposits (B15) | | Dry-Season Water T | Table (C2) |
| Water Marks (B1) | Hvdro | aen Sulfide Odor (C | :1) | Cravfish Burrows (C | 8) |

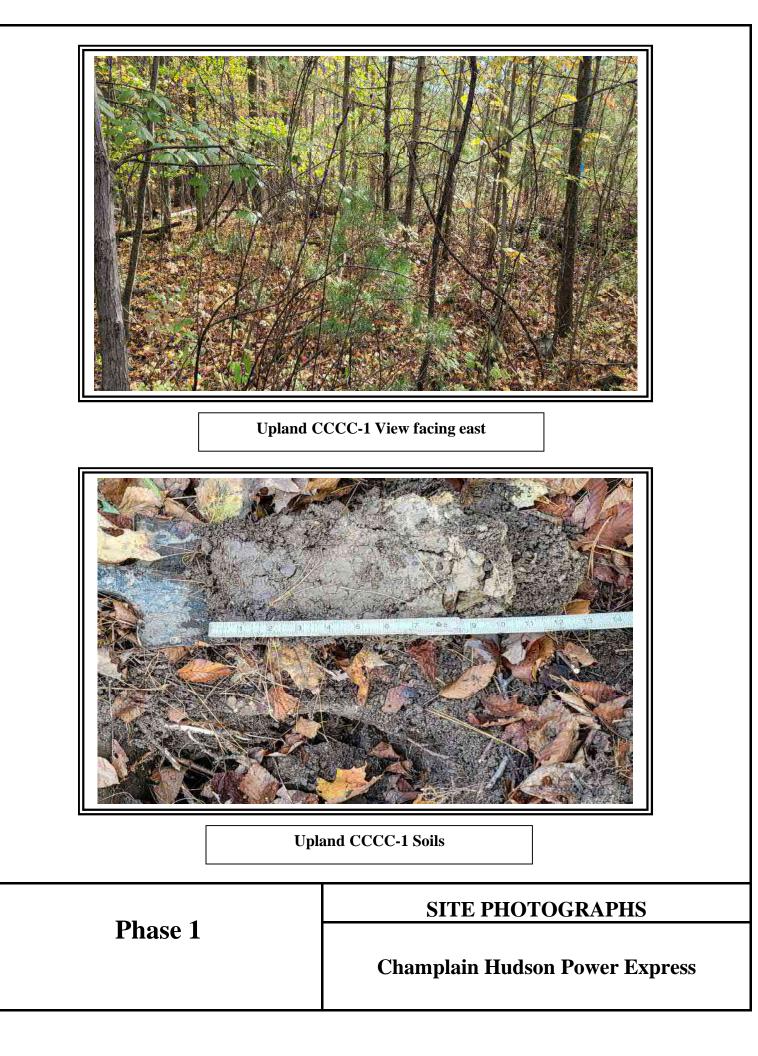
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | Crayfish Burrows (C8) |
|---|--|---|
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Roots (C | C3) Saturation Visible on Aerial Imagery (C9) |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | Stunted or Stressed Plants (D1) |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils (C6) | Geomorphic Position (D2) |
| Iron Deposits (B5) | Thin Muck Surface (C7) | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) | Other (Explain in Remarks) | Microtopographic Relief (D4) |
| Sparsely Vegetated Concave Surface (B8 | 3) | FAC-Neutral Test (D5) |
| Field Observations: | | |
| Surface Water Present? Yes | No X Depth (inches): | |
| Water Table Present? Yes | No X Depth (inches): | |
| Saturation Present? Yes | No X Depth (inches): We | etland Hydrology Present? Yes <u>No X</u> |
| (includes capillary fringe) | | |
| Describe Recorded Data (stream gauge, mon | nitoring well, aerial photos, previous inspections |), if available: |
| | | |
| | | |
| Remarks: | | |
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Sampling Point: UPL CCCC-1

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | | |
|--|---------------------|----------------------|---------------------|--|--------------------------|--------|
| 1. Fagus grandifolia | 50 | Yes | FACU | Number of Dominant Species | | |
| 2. Ostrya virginiana | 10 | No | FACU | That Are OBL, FACW, or FAC: | 0 | (A) |
| 3. Tsuga canadensis | 8 | No | FACU | Total Number of Dominant | | |
| 4. Quercus rubra | 8 | No | FACU | Species Across All Strata: | 9 | (B) |
| 5. | | | | Percent of Dominant Species | | |
| 6. | | | | | 0.0% | (A/E |
| 7. | | | | Prevalence Index worksheet: | | |
| | 76 | =Total Cover | | Total % Cover of: Mu | ultiply by: | |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 0 x 1 = | 0 | - |
| 1. Pinus strobus | 8 | Yes | FACU | FACW species 0 x 2 = | 0 | - |
| 2. Tsuga canadensis | 8 | Yes | FACU | FAC species 0 x 3 = | 0 | - |
| 3. Fagus grandifolia | 5 | Yes | FACU | FACU species 192 x 4 = | 768 | - |
| 4. Quercus rubra | 5 | Yes | FACU | UPL species 13 x 5 = | 65 | |
| 5. Hamamelis virginiana | 5 | Yes | FACU | Column Totals: 205 (A) | 833 | (E |
| 6. Zanthoxylum americanum | 3 | No | FACU | Prevalence Index = $B/A =$ | 4.06 | - ' |
| 7. Betula lenta | 2 | No | FACU | Hydrophytic Vegetation Indicators: | | _ |
| | 36 | =Total Cover | | 1 - Rapid Test for Hydrophytic Veg | petation | |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% | | |
| 1. Solidago caesia | 35 | Yes | FACU | 3 - Prevalence Index is ≤3.0 ¹ | | |
| 2. Symphyotrichum ericoides | 15 | Yes | FACU | 4 - Morphological Adaptations ¹ (Pr | rovide supp | orti |
| 3. Viburnum acerifolium | 8 | No | UPL | data in Remarks or on a separa | | |
| 4. Quercus rubra | 5 | No | FACU | Problematic Hydrophytic Vegetation | on ¹ (Explain | ר) |
| 5. Pinus strobus | 5 | No | FACU | | | |
| 6. Fagus grandifolia | 5 | No | FACU | ¹ Indicators of hydric soil and wetland h present, unless disturbed or problemat | | ust |
| 7. Fraxinus americana | 5 | No | FACU | Definitions of Vegetation Strata: | | |
| 8. Ostrya virginiana | 5 | No | FACU | | | |
| 9. Eurybia divaricata | 5 | No | UPL | Tree – Woody plants 3 in. (7.6 cm) or at breast height (DBH), regardless of h | | ime |
| 10 | | | | | - | |
| | | | | Sapling/shrub – Woody plants less th and greater than or equal to 3.28 ft (1 | | зН |
| 12. | | | | | | |
| 12. | 88 | =Total Cover | | Herb – All herbaceous (non-woody) pl of size, and woody plants less than 3.2 | | dles |
| Woody Vine Stratum (Plot size: 30') | | | | | | |
| 1. Vitis aestivalis | 5 | Yes | FACU | Woody vines – All woody vines greate height. | er than 3.28 | } ft i |
| | | 103 | TAGO | | | |
| 2 | | | | Hydrophytic | | |
| 4. | | | | Vegetation Present? Yes No | × | |
| ··· | F | -Total Causa | | NO | X | |
| | 5 | =Total Cover | | | | |

SOIL

| Profile Desc | ription: (Describe t | o the dep | oth needed to docu | ument th | e indica | tor or co | nfirm the absence of | indicators.) | |
|---|----------------------|---|------------------------|-------------------|-------------------|--|---|-------------------------------|--|
| Depth Matrix | | | Redox Features | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-3 | 10YR 3/2 | 100 | | | | | Loamy/Clayey | | |
| 3-16 | 10YR 5/3 | 75 | 10YR 2/2 | 5 | С | М | Loamy/Clayey | Distinct redox concentrations | |
| | | | 10YR 4/4 | 20 | С | М | | Faint redox concentrations | |
| | | | | | | | | | |
| <u> </u> | | | | | | | | | |
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| | | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=Depl | etion, RM | =Reduced Matrix, M | IS=Mask | ed Sand | Grains. | ² Location: PI | L=Pore Lining, M=Matrix. | |
| Hydric Soil Indicators: Indicators for Problematic Hydric Soils | | | | | | | | | |
| Histosol | (A1) | Polyvalue Below Surface (S8) (LRR R, | | | | 2 cm Muck (A10) (LRR K, L, MLRA 149B) | | | |
| Histic Ep | ipedon (A2) | MLRA 149B) | | | | Coast Prairie Redox (A16) (LRR K, L, R) | | | |
| Black His | stic (A3) | Thin Dark Surface (S9) (LRR R, MLRA 149 | | | | 49B) 5 cm Mu | cky Peat or Peat (S3) (LRR K, L, R) | | |
| Hydrogen Sulfide (A4) High Chroma Sands | | | | | 611) (LRF | R K, L) | Polyvalue Below Surface (S8) (LRR K, L) | | |
| Stratified | Layers (A5) | Loamy Mucky | Mineral (| (F1) (LRF | R K, L) | Thin Dark Surface (S9) (LRR K, L) | | | |
| Depleted | Below Dark Surface | Loamy Gleyed Matrix (F2) | | | | Iron-Manganese Masses (F12) (LRR K, L, R) | | | |
| Thick Da | rk Surface (A12) | Depleted Matrix (F3) | | | | Piedmont Floodplain Soils (F19) (MLRA 149B) | | | |
| Sandy M | ucky Mineral (S1) | Redox Dark Surface (F6) | | | | Mesic Spodic (TA6) (MLRA 144A, 145, 149B) | | | |
| Sandy G | leyed Matrix (S4) | Depleted Dark Surface (F7) | | | | Red Parent Material (F21) | | | |
| Sandy Redox (S5) | | | Redox Depressions (F8) | | | | Very Shallow Dark Surface (F22) | | |
| Stripped Matrix (S6) | | | Marl (F10) (LRR K, L) | | | | Other (Explain in Remarks) | | |
| Dark Sur | face (S7) | | | | | | | | |
| ³ Indiantara of | | | | at he are | | ana diatu | rhad ar prablamatia | | |
| ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless distu Restrictive Layer (if observed): | | | | | | rbed of problematic. | | | |
| Type: | | | | | | | | | |
| Depth (inches): | | | | | | | Hydric Soil Presen | t? Yes No X | |
| Remarks: | | | | | | | | | |
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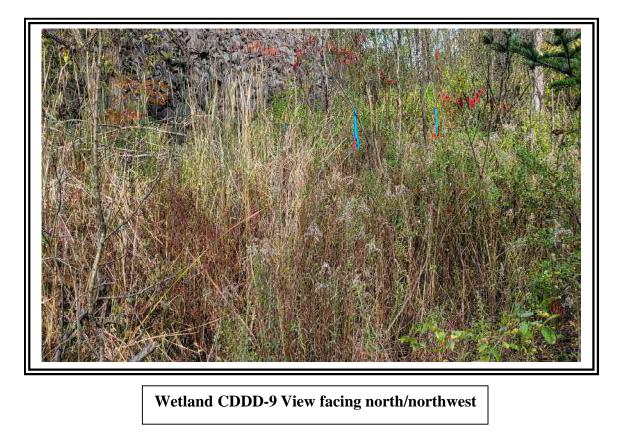


| Project/Site: CHPE | | City/County: Dresde | n / Washington | Sampling Date: 10/19/21 | | |
|---|--|--------------------------|---------------------------|--|--|--|
| Applicant/Owner: TDI | | - | State: NY | Sampling Point: WET CDDD-9 | | |
| Investigator(s): J. Greaves, C. Scrivner | | Section, To | wnship, Range: | • • • • • • • • • • • • • • • • • • • | | |
| Landform (hillside, terrace, etc.): Hillslope | Local r | elief (concave, conve | | Slope %: 10 | | |
| Subregion (LRR or MLRA): LRR R | Lat: 43-36-17.31N | | 73-25-52.53W | Datum: WGS 84 | | |
| Soil Map Unit Name: HLE - Hollis-Charlton a | | | NWI classification: | | | |
| Are climatic / hydrologic conditions on the site | | | | explain in Remarks.) | | |
| , 0 | | Yes X | | | | |
| Are Vegetation, Soil, or Hydro | | | nal Circumstances" prese | | | |
| Are Vegetation, Soil, or Hydro | | | d, explain any answers in | | | |
| SUMMARY OF FINDINGS – Attach | site map showing sam | pling point loca | tions, transects, in | nportant features, etc. | | |
| Hydrophytic Vegetation Present? | Yes X No | Is the Sampled A | rea | | | |
| Hydric Soil Present? | Yes X No | within a Wetland | | No | | |
| Wetland Hydrology Present? | Yes X No | If yes, optional We | etland Site ID: Near Fla | g WET CDDD-9 | | |
| Palustrine Emergent Marsh dominated by ca | | | | | | |
| HYDROLOGY | | | | | | |
| Wetland Hydrology Indicators: | | | Secondary Indicators (n | ninimum of two required) | | |
| Primary Indicators (minimum of one is requir | | | Surface Soil Cracks | | | |
| X Surface Water (A1) | Water-Stained Leaves (B | 9) | Drainage Patterns (| | | |
| High Water Table (A2) | Aquatic Fauna (B13) | | | Moss Trim Lines (B16) Dry-Season Water Table (C2) | | |
| X Saturation (A3) | Marl Deposits (B15) | | | | | |
| Water Marks (B1) Sediment Deposits (B2) | Hydrogen Sulfide Odor (C Oxidized Rhizospheres or | | Crayfish Burrows (C | on Aerial Imagery (C9) | | |
| Drift Deposits (B3) | Presence of Reduced Iror | | Stunted or Stressed | | | |
| Algal Mat or Crust (B4) | Recent Iron Reduction in | () | X Geomorphic Positio | | | |
| Iron Deposits (B5) | Thin Muck Surface (C7) | Shallow Aquitard (D3) | | | | |
| Inundation Visible on Aerial Imagery (B7 | | | | | | |
| Sparsely Vegetated Concave Surface (E | 38) | , | X FAC-Neutral Test (I | | | |
| Field Observations: | <u>·</u> | | | | | |
| Surface Water Present? Yes X | No Depth (inches): | 0.5 | | | | |
| Water Table Present? Yes | No X Depth (inches): | | | | | |
| Saturation Present? Yes X | No Depth (inches): | 0 Wetlan | d Hydrology Present? | Yes X No | | |
| (includes capillary fringe) | | <u> </u> | | | | |
| Describe Recorded Data (stream gauge, mo | nitoring well, aerial photos, prev | vious inspections), it a | available: | | | |
| | | | | | | |
| Remarks: Seepage areas occuring along the toe of slo | pe. | | | | | |
| | | | | | | |

Sampling Point: WET CDDD-9

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | | | | |
|--|---------------------|----------------------|---------------------|--|--|--|--|--|
| 1. 2. | | · | | Number of Dominant Species That Are OBL, FACW, or FAC:3(A) | | | | |
| 3. 4. | | | | Total Number of Dominant Species Across All Strata: <u>4</u> (B) | | | | |
| 5. 6. | | · | | Percent of Dominant Species That Are OBL, FACW, or FAC: | | | | |
| 7 | | | | Prevalence Index worksheet: | | | | |
| | | =Total Cover | | Total % Cover of: Multiply by: | | | | |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 72 x 1 = 72 | | | | |
| 1. Cornus amomum | 10 | Yes | FACW | FACW species 20 x 2 = 40 | | | | |
| 2. Lonicera morrowii | 5 | Yes | FACU | FAC species 13 x 3 = 39 | | | | |
| 3 | | | | FACU species 10 x 4 = 40 | | | | |
| 4 | | | | UPL species 0 x 5 = 0 | | | | |
| 5 | | | | Column Totals: 115 (A) 191 (B) | | | | |
| 6 | | | | Prevalence Index = B/A = 1.66 | | | | |
| 7 | | | | Hydrophytic Vegetation Indicators: | | | | |
| | 15 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation | | | | |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% | | | | |
| 1. Typha angustifolia | 49 | Yes | OBL | X 3 - Prevalence Index is $\leq 3.0^1$ | | | | |
| 2. Lythrum salicaria | 20 | Yes | OBL | 4 - Morphological Adaptations ¹ (Provide supporting | | | | |
| 3. Impatiens capensis | 10 | No | FACW | data in Remarks or on a separate sheet) | | | | |
| 4. Equisetum arvense | 8 | No | FAC | Problematic Hydrophytic Vegetation ¹ (Explain) | | | | |
| 5. Solidago rugosa | 5 | No | FAC | | | | | |
| 6. Solidago canadensis | 5 | No | FACU | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. | | | | |
| 7. Epilobium coloratum | 3 | No | OBL | Definitions of Vegetation Strata: | | | | |
| 8. | | | | | | | | |
| 9 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. | | | | |
| 10 11 | | · | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. | | | | |
| 12 | | · | | | | | | |
| | 100 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. | | | | |
| Woody Vine Stratum (Plot size: 30') | | | | Woody vines – All woody vines greater than 3.28 ft in | | | | |
| 1 | | | | height. | | | | |
| 2 | | | | Hydrophytic | | | | |
| 3 | | | | Vegetation | | | | |
| 4 | | . <u> </u> | | Present? Yes X No | | | | |
| | | =Total Cover | | | | | | |
| Remarks: (Include photo numbers here or on a separ | ate sheet.) | | | | | | | |
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| Profile Desc | ription: (Describe t | to the dep | oth needed to docu | iment th | e indica | tor or co | nfirm the absence of ir | ndicators.) | | | | |
|----------------------------|-------------------------------------|-------------|---|-----------|--------------------|------------------|---|---|--|--|--|--|
| Depth | Matrix | | | x Featur | | | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | | | | |
| 0-3 | 10YR 2/1 | 88 | 10YR 4/4 | 10 | С | М | Loamy/Clayey | Distinct redox concentrations | | | | |
| | | | 10YR 5/1 | 2 | D | М | | | | | | |
| 3-16 | N 4/ | 60 | 10YR 5/4 | 25 | С | М | Mucky Loam/Clay | Prominent redox concentrations | | | | |
| | | | 10YR 4/6 | 15 | С | М | Prominent redox concentration | | | | | |
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| 17 | | | | | | | 2 | Description M March | | | | |
| Hydric Soil | oncentration, D=Depl Indicators: | etion, Rivi | =Reduced Matrix, M | S=IVIASK | ed Sand | Grains. | | =Pore Lining, M=Matrix. r Problematic Hydric Soils ³ : | | | | |
| Histosol | | | Polyvalue Belo | w Surfac | ce (S8) (I | .RR R. | | k (A10) (LRR K, L, MLRA 149B) | | | | |
| | vipedon (A2) | | MLRA 149B | | | , | | airie Redox (A16) (LRR K, L, R) | | | | |
| Black Hi | stic (A3) | | Thin Dark Surf | ace (S9) | (LRR R, | MLRA 1 | 149B) 5 cm Muc | ky Peat or Peat (S3) (LRR K, L, R) | | | | |
| Hydroge | n Sulfide (A4) | | High Chroma S | Sands (S | 11) (LR F | R K, L) | Polyvalue | Below Surface (S8) (LRR K, L) | | | | |
| Stratified | Layers (A5) | | Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) | | | | | | | | | |
| X Depleted | Below Dark Surface | e (A11) | X Loamy Gleyed | | | | Iron-Manganese Masses (F12) (LRR K, L, R) | | | | | |
| Thick Da | ark Surface (A12) | | Depleted Matri | x (F3) | | | Piedmont Floodplain Soils (F19) (MLRA 149B) | | | | | |
| Sandy M | lucky Mineral (S1) | | Redox Dark Su | urface (F | 6) | | Mesic Spo | odic (TA6) (MLRA 144A, 145, 149B) | | | | |
| | leyed Matrix (S4) | | Depleted Dark | Surface | (F7) | | | nt Material (F21) | | | | |
| | edox (S5) | | ? Redox Depress | | | | | llow Dark Surface (F22) | | | | |
| | Matrix (S6) | | Marl (F10) (LR | • | - / | | | plain in Remarks) | | | | |
| | face (S7) | | | , , | | | | | | | | |
| ³ Indiantara at | f hydrophytic vegetati | | otional budrology mu | | a ant uni | ooo diatu | | | | | | |
| | -ayer (if observed): | ion and w | eliand hydrology mu | st be pre | sent, uni | ess distu | inded of problematic. | | | | | |
| Туре: | | | | | | | | | | | | |
| Depth (ir | nches): | | | | | | Hydric Soil Present | t? Yes <u>X</u> No | | | | |
| Remarks: | | | | | | | | | | | | |
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Wetland CDDD-9 Soils

Phase 1

SITE PHOTOGRAPHS

Champlain Hudson Power Express

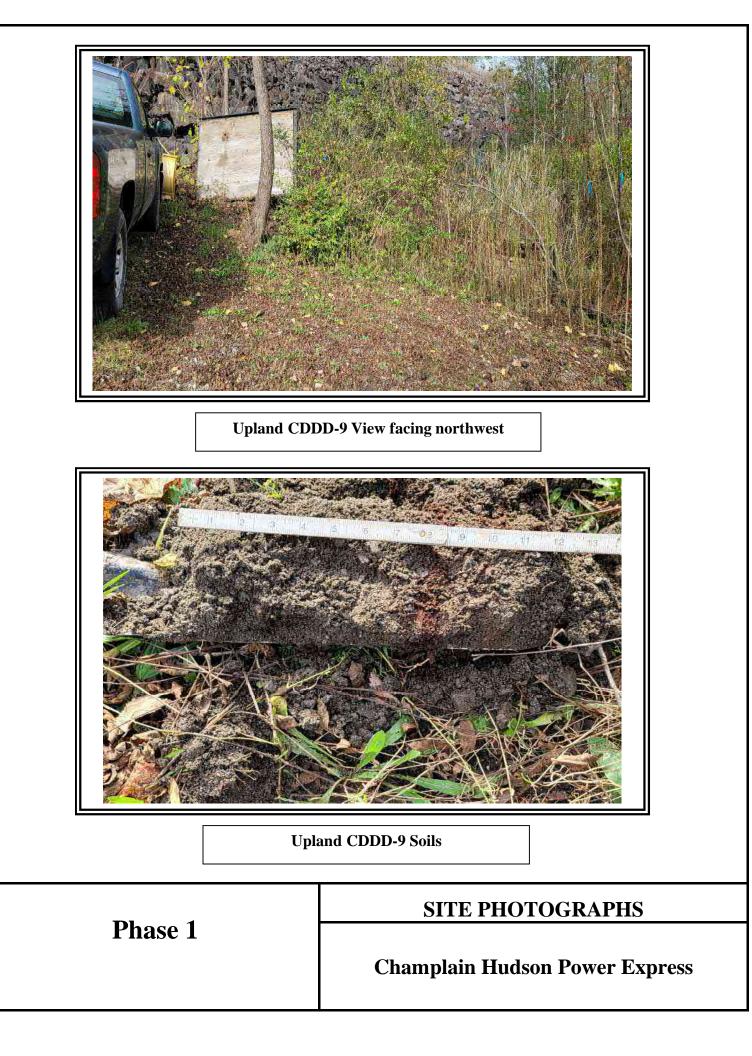
| Project/Site: CHPE | | City/County: Dresden / Washington | Sampling Date: 10/19/21 |
|--------------------------------------|---|---|----------------------------|
| Applicant/Owner: TDI | | State: NY | Sampling Point: UPL CDDD-9 |
| Investigator(s): J. Greaves, C. Scr | ivner | Section, Township, Range: | |
| Landform (hillside, terrace, etc.): | Hillslope Local | relief (concave, convex, none): Convex | Slope %: 5 |
| Subregion (LRR or MLRA): LRR | R Lat: 43-36-17.06N | Long: 73-25-52.48W | Datum: WGS 84 |
| Soil Map Unit Name: HLE - Hollis | -Charlton association, moderately steep | and steep NWI classification | : <u>NA</u> |
| Are climatic / hydrologic conditions | on the site typical for this time of year? | Yes X No (If no, | explain in Remarks.) |
| Are Vegetation, Soil | , or Hydrology significantly distur | bed? Are "Normal Circumstances" pres | sent? Yes X No |
| Are Vegetation, Soil | , or Hydrology naturally problema | atic? (If needed, explain any answers i | n Remarks.) |
| SUMMARY OF FINDINGS - | - Attach site map showing san | npling point locations, transects, i | mportant features, etc. |
| Hydrophytic Vegetation Present? | Yes No X | Is the Sampled Area | |
| Hydric Soil Present? | Yes No X | within a Wetland? Yes | No X |
| Wetland Hydrology Present? | Yes No_X | If yes, optional Wetland Site ID: | |
| | cedures here or in a separate report.) essional shrubland and gravel parking are | ea. | |
| HYDROLOGY | | | |
| Wetland Hydrology Indicators: | | Secondary Indicators | (minimum of two required) |
| Primary Indicators (minimum of on | e is required; check all that apply) | Surface Soil Cracl | ks (B6) |
| Surface Water (A1) | Water-Stained Leaves (| B9) Drainage Patterns | ; (B10) |
| High Water Table (A2) | Aquatic Fauna (B13) | Moss Trim Lines (| B16) |

| | | Aqualic | | | | | |
|-----------------------------|------------------|-----------------|----------------------------|-------------------|-----------------------------|--------------|---------|
| Saturation (A3) | | Marl De | eposits (B15) | | Dry-Season Water Table (C2) | | |
| Water Marks (B1) | | Hydrog | en Sulfide Odor (C1) | | Crayfish Burrows (C8 |) | |
| Sediment Deposits (B2 | .) | Oxidize | d Rhizospheres on Livin | g Roots (C3) | Saturation Visible on | Aerial Image | ry (C9) |
| Drift Deposits (B3) | | Presen | ce of Reduced Iron (C4) | | Stunted or Stressed F | Plants (D1) | |
| Algal Mat or Crust (B4) | | Recent | Iron Reduction in Tilled | Soils (C6) | Geomorphic Position | (D2) | |
| Iron Deposits (B5) | | Thin Mu | uck Surface (C7) | | Shallow Aquitard (D3 |) | |
| Inundation Visible on A | erial Imagery (B | 37) Other (1 | Explain in Remarks) | | Microtopographic Rel | ief (D4) | |
| Sparsely Vegetated Co | ncave Surface (| (B8) | | | FAC-Neutral Test (D5 | 5) | |
| Field Observations: | | | | | | | |
| Surface Water Present? | Yes | No X | Depth (inches): | | | | |
| Water Table Present? | Yes | No X | No X Depth (inches): | | | | |
| Saturation Present? | Yes | No X | Depth (inches): | Wetland | Hydrology Present? | Yes | No X |
| (includes capillary fringe) | | | | | | | |
| Describe Recorded Data (s | tream gauge, m | onitoring well, | aerial photos, previous ir | nspections), if a | vailable: | | |
| | | | | | | | |
| | | | | | | | |
| Remarks: | | | | | | | |
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Sampling Point: UPL CDDD-9

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | | | |
|---------------------------------------|---------------------|----------------------|---------------------|---|--|--|--|
| 1. Juglans nigra | 40 | Yes | FACU | Number of Dominant Species | | | |
| 2. Populus tremuloides | 5 | No | FACU | That Are OBL, FACW, or FAC:(A) | | | |
| 3 | | <u> </u> | | Total Number of Dominant | | | |
| 4 | | | | Species Across All Strata: 5 (B) | | | |
| 5 | | | | Percent of Dominant Species | | | |
| 6 | | | | That Are OBL, FACW, or FAC: 0.0% (A/ | | | |
| 7 | | | | Prevalence Index worksheet: | | | |
| | 45 | =Total Cover | | Total % Cover of: Multiply by: | | | |
| Sapling/Shrub Stratum (Plot size: 15' |) | | | OBL species 0 x 1 = 0 | | | |
| 1. Lonicera morrowii | 55 | Yes | FACU | FACW species <u>5</u> x 2 = <u>10</u> | | | |
| 2. Rhus typhina | 5 | No | UPL | FAC species 15 x 3 = 45 | | | |
| 3. Rubus occidentalis | 5 | No | UPL | FACU species <u>175</u> x 4 = <u>700</u> | | | |
| 4 | | | | UPL species 10 x 5 = 50 | | | |
| 5 | | | | Column Totals: 205 (A) 805 (| | | |
| ð | | | | Prevalence Index = B/A = 3.93 | | | |
| 7 | | <u> </u> | | Hydrophytic Vegetation Indicators: | | | |
| | 65 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation | | | |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% | | | |
| 1. Solidago caesia | 25 | Yes | FACU | 3 - Prevalence Index is ≤3.0 ¹ | | | |
| 2. Taraxacum officinale | 25 | Yes | FACU | 4 - Morphological Adaptations ¹ (Provide supportin | | | |
| 3. <u>Setaria pumila</u> | 10 | No | FAC | data in Remarks or on a separate sheet) | | | |
| 4. Solidago rugosa | 5 | No | FAC | Problematic Hydrophytic Vegetation ¹ (Explain) | | | |
| 5. Solidago gigantea | 5 | No | FACW | ¹ Indicators of hydric soil and wetland hydrology must | | | |
| 6. Solidago canadensis | 5 | No | FACU | present, unless disturbed or problematic. | | | |
| 7. Ambrosia artemisiifolia | 5 | No | FACU | Definitions of Vegetation Strata: | | | |
| 3. Oxalis stricta | 5 | No | FACU | Tree – Woody plants 3 in. (7.6 cm) or more in diame | | | |
| 9. Cichorium intybus | 5 | No | FACU | at breast height (DBH), regardless of height. | | | |
| 10 | | <u> </u> | | Sapling/shrub – Woody plants less than 3 in. DBH | | | |
| 11 | | <u> </u> | | and greater than or equal to 3.28 ft (1 m) tall. | | | |
| 12 | | | | Herb – All herbaceous (non-woody) plants, regardle | | | |
| | 90 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. | | | |
| Woody Vine Stratum (Plot size: 30' |) | | | Woody vines – All woody vines greater than 3.28 ft | | | |
| 1. Vitis aestivalis | 5 | Yes | FACU | height. | | | |
| 2 | _ | | | | | | |
| 3. | | | | Hydrophytic Vegetation | | | |
| 4. | | | | Present? Yes No X | | | |
| | 5 | =Total Cover | | | | | |

| Profile Desc | ription: (Describe t | o the dep | th needed to docu | ment th | e indica | tor or co | nfirm the absence | of indicat | ors.) | |
|----------------------------|----------------------|-----------|---------------------|-----------|-------------------|------------------|-------------------------|-------------|------------------------|-------------------------|
| Depth | Matrix | | Redo | x Featu | res | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | | Remar | ks |
| 0.10 | 40VD 2/2 | 100 | | | | | Condu | _ | | |
| 0-16 | 10YR 3/2 | 100 | | | | | Sandy | | | |
| | | | | _ | | | | _ | | |
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| | ncentration, D=Deple | ation DM | Deduced Metrix M | C Maal | | Craina | ² L continue | DI Dara | Lining, M=Mat | |
| Hydric Soil I | | | | S=IVIASK | eu Sanu | Grains. | | | lematic Hydri | |
| - | | | Debuselus Dela | | | | | | • | |
| Histosol | | | Polyvalue Belo | | ce (58) (I | .кк к, | | |)) (LRR K, L, N | |
| | ipedon (A2) | | MLRA 149B | , | | | | | edox (A16) (LF | |
| Black His | . , | | Thin Dark Surf | | | | | • | | (LRR K, L, R) |
| | n Sulfide (A4) | | High Chroma S | | | | | | / Surface (S8) | |
| | Layers (A5) | | Loamy Mucky | | | R K, L) | | | ce (S9) (LRR | |
| | Below Dark Surface | e (A11) | Loamy Gleyed | | F2) | | | - | |) (LRR K, L, R) |
| | rk Surface (A12) | | Depleted Matri | | | | | | | 9) (MLRA 149B) |
| | ucky Mineral (S1) | | Redox Dark Su | urface (F | 6) | | Mesic | : Spodic (T | A6) (MLRA 1 4 | I4A, 145, 149B) |
| Sandy G | leyed Matrix (S4) | | Depleted Dark | Surface | (F7) | | | Parent Mat | | |
| | edox (S5) | | Redox Depres | | 8) | | | | ark Surface (F2 | 22) |
| Stripped | Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other | (Explain ii | n Remarks) | |
| Dark Sur | face (S7) | | | | | | | | | |
| | | | | | | | | | | |
| ³ Indicators of | hydrophytic vegetati | on and we | etland hydrology mu | st be pre | esent, unl | ess distu | rbed or problematic. | | | |
| Restrictive L | ayer (if observed): | | | | | | | | | |
| Type: | | | | | | | | | | |
| Depth (in | ches): | | | | | | Hydric Soil Pres | sent? | Yes | No X |
| | | | | | | | | | | |
| Remarks: | | | | | | | | | | |
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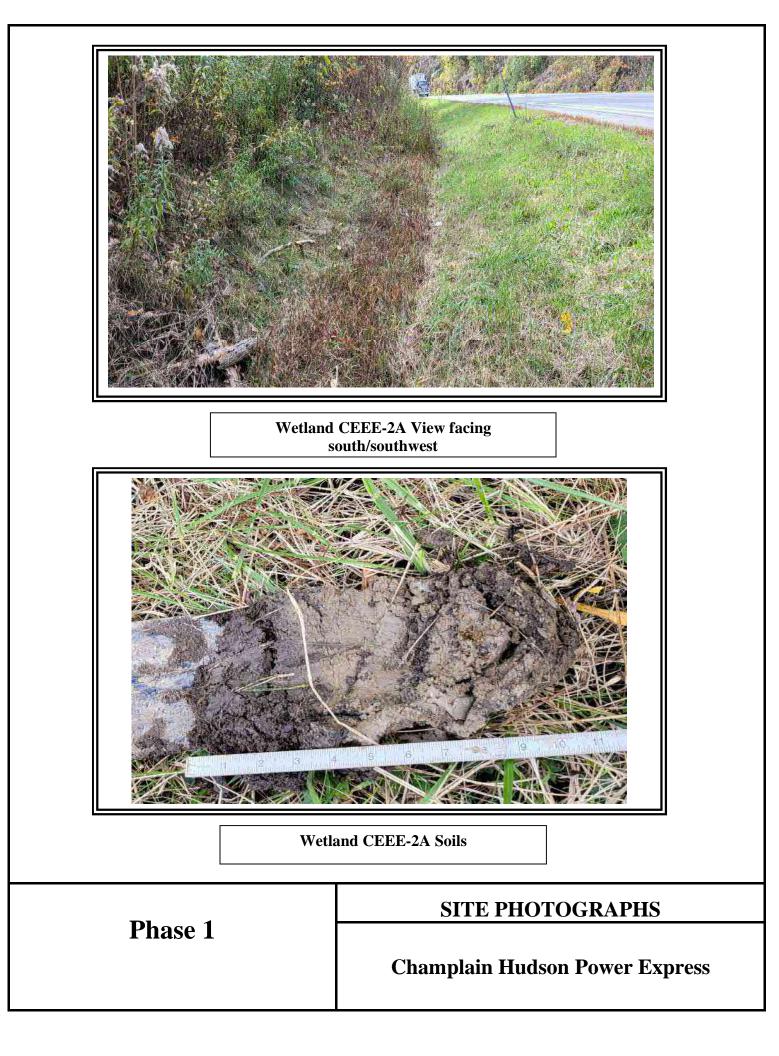


| r: Dresden / Washington Sampling Date: 10/19/21 | | | | | |
|--|--|--|--|--|--|
| State: NY Sampling Point: WET CEEE-2A | | | | | |
| ection, Township, Range: | | | | | |
| ve, convex, none): Concave Slope %: 5 | | | | | |
| | | | | | |
| Long: 73-26-2.49W Datum: WGS 84 | | | | | |
| NWI classification: PEM1 | | | | | |
| Yes X No (If no, explain in Remarks.) | | | | | |
| Are "Normal Circumstances" present? Yes X No | | | | | |
| (If needed, explain any answers in Remarks.) | | | | | |
| nt locations, transects, important features, etc. | | | | | |
| mpled Area | | | | | |
| Wetland? Yes X No | | | | | |
| tional Wetland Site ID: Near Flag WET CEEE-2A | | | | | |
| nger classification: Purple Loosestrife Marsh. | | | | | |
| | | | | | |
| Secondary Indicators (minimum of two required) | | | | | |
| Surface Soil Cracks (B6) | | | | | |
| 9) Drainage Patterns (B10) | | | | | |
| Moss Trim Lines (B16) | | | | | |
| Dry-Season Water Table (C2) | | | | | |
| Crayfish Burrows (C8) | | | | | |
| on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) | | | | | |
| Stunted or Stressed Plants (D1) | | | | | |
| (C6) X Geomorphic Position (D2) | | | | | |
| <u>?</u> Shallow Aquitard (D3) | | | | | |
| Microtopographic Relief (D4) | | | | | |
| X FAC-Neutral Test (D5) | | | | | |
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| | | | | | |
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| Wetland Hydrology Present? Yes X No | | | | | |
| | | | | | |
| tions), if available: | | | | | |
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Sampling Point: WET CEEE-2A

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|---|---------------------|----------------------|---------------------|--|
| 1. 2. | | · | | Number of Dominant Species That Are OBL, FACW, or FAC:1 (A) |
| 3. 4. | | | | Total Number of Dominant Species Across All Strata: 1 (B) |
| 5 | | · | | Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) |
| 7 | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 91 x 1 = 91 |
| 1 | | | | FACW species 1 x 2 = 2 |
| 2. | | | | FAC species 3 x 3 = 9 |
| 3. | | | | FACU species 0 x 4 = 0 |
| 4. | | | | UPL species 0 x 5 = 0 |
| 5. | | | | Column Totals: 95 (A) 102 (B) |
| 6. | | | | Prevalence Index = $B/A = 1.07$ |
| 7. | | · | | Hydrophytic Vegetation Indicators: |
| | | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% |
| 1. Lythrum salicaria | 90 | Yes | OBL | X 3 - Prevalence Index is ≤3.0 ¹ |
| 2. Euthamia graminifolia | 2 | No | FAC | 4 - Morphological Adaptations ¹ (Provide supporting |
| 3. Cornus amomum | 1 | · | FACW | data in Remarks or on a separate sheet) |
| 4. Typha angustifolia | 1 | No | OBL | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. Solidago rugosa | | | FAC | |
| 6. | | | | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 7. | | · | | Definitions of Vegetation Strata: |
| 8. | | · | | |
| 9. | | · | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 10 11 | | · | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | 95 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | |
| 1 | | | | Woody vines – All woody vines greater than 3.28 ft in height. |
| 2 | | | | Hydrophytic |
| 3 | | | | Vegetation |
| 4 | | | | Present? Yes X No |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a separate | ate sheet.) | | | |
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| Profile Desc | ription: (Describe t | o the de | pth needed to docu | ment the | e indicat | tor or co | nfirm the absence of in | dicators.) | | | |
|---------------------------|--|--|---------------------|-----------|-------------------|------------------|---|--|--|--|--|
| Depth | Matrix | | Redox Features | | | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | | | |
| 0-4 | 10YR 3/1 | 90 | 10YR 5/3 | 10 | С | М | Loamy/Clayey | Distinct redox concentrations | | | |
| 4-12 | 10YR 5/1 | 60 | 10YR 5/4 | 30 | С | М | Mucky Loam/Clay | Distinct redox concentrations | | | |
| | | | 10YR 4/6 | 10 | С | М | | Prominent redox concentrations | | | |
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| | oncentration, D=Deple | etion, RN | I=Reduced Matrix, M | S=Mask | ed Sand | Grains. | | Pore Lining, M=Matrix. | | | |
| Hydric Soil I Histosol | | | Polyvalue Belo | w Surfac | o (S8) (I | | | Problematic Hydric Soils ³ : (A10) (LRR K, L, MLRA 149B) | | | |
| | vipedon (A2) | | MLRA 149B | | ,e (00) (L | -IXIX IX, | | rie Redox (A16) (LRR K, L, R) | | | |
| Black His | | | Thin Dark Surf | , | (LRR R. | MLRA 1 | | xy Peat or Peat (S3) (LRR K, L, R) | | | |
| | n Sulfide (A4) | | High Chroma S | | | | | Below Surface (S8) (LRR K, L) | | | |
| | Layers (A5) | | Loamy Mucky | | | | · | Surface (S9) (LRR K, L) | | | |
| | Below Dark Surface | (A11) | Loamy Gleyed | | | , _/ | Iron-Manganese Masses (F12) (LRR K, L, R) | | | | |
| | ark Surface (A12) | , (, , , , , , , , , , , , , , , , , , | X Depleted Matri | | _) | | Piedmont Floodplain Soils (F12) (MLRA 149B) | | | | |
| | lucky Mineral (S1) | | X Redox Dark Su | • • | 6) | | Mesic Spodic (TA6) (MLRA 144A, 145, 149B) | | | | |
| | leyed Matrix (S4) | | Depleted Dark | | | | Red Parent Material (F21) | | | | |
| | edox (S5) | | ? Redox Depress | | . , | | | | | | |
| | Matrix (S6) | | Marl (F10) (LR | | , | | Very Shallow Dark Surface (F22) Other (Explain in Remarks) | | | | |
| | face (S7) | | | in in, E/ | | | | nair in reenancy | | | |
| 2 | | | | | | | | | | | |
| | f hydrophytic vegetati _ayer (if observed): | on and w | etland hydrology mu | st be pre | sent, unl | ess distu | rbed or problematic. | | | | |
| Туре: | Roc | :k | | | | | | | | | |
| Depth (ir | nches): | 12 | | | | | Hydric Soil Present? | Yes <u>X</u> No | | | |
| Remarks: | | | | | | | | | | | |
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| Project/Site: CHPE | | City/County: Dresden / Wash | nington Sar | mpling Date: 10/19 | 9/21 |
|--|---|---------------------------------|------------------------|---------------------|------------|
| Applicant/Owner: TDI | | | State: NY S | Sampling Point: UPL | CEEE-2A |
| Investigator(s): J. Greaves, C. Scriv | ner | Section, Township, R | Range: | | |
| Landform (hillside, terrace, etc.): | Hillslope Local | relief (concave, convex, none): | : Convex | Slope %: | 30 |
| Subregion (LRR or MLRA): LRR R | Lat: 43-35-56.72N | Long: 73-26-2 | 2.63W | Datum: WGS | 3 84 |
| Soil Map Unit Name: HLE - Hollis-0 | Charlton association, moderately steep a | Ind steep NW | VI classification: NA | | |
| Are climatic / hydrologic conditions o | n the site typical for this time of year? | Yes X No | o (If no, expla | ain in Remarks.) | |
| , , | , or Hydrology significantly disturb | | mstances" present? | | |
| | , or Hydrology naturally problema | | n any answers in Rei | | |
| | | | - | | - |
| SUMMARY OF FINDINGS - | Attach site map showing sam | pling point locations, t | transects, impo | ortant features, | , etc. |
| Hydrophytic Vegetation Present? | Yes No X | Is the Sampled Area | | | |
| Hydric Soil Present? | Yes No X | within a Wetland? | Yes No | o_X_ | |
| Wetland Hydrology Present? | Yes No X | If yes, optional Wetland Site | e ID: | | |
| Mowed roadside. | edures here or in a separate report.) | | | | |
| HYDROLOGY | | | | | |
| Wetland Hydrology Indicators: | | Second | lary Indicators (minir | num of two required | <u>(</u> t |
| Primary Indicators (minimum of one | is required; check all that apply) | Sur | rface Soil Cracks (Be | 6) | |
| Surface Water (A1) | Water-Stained Leaves (E | 39) Dra | ainage Patterns (B10 |)) | |
| High Water Table (A2) | Aquatic Fauna (B13) | Mos | ss Trim Lines (B16) | | |
| Saturation (A3) | Marl Deposits (B15) | Dry | /-Season Water Tab | le (C2) | |
| Water Marks (B1) | Hydrogen Sulfide Odor (| C1) Cra | ayfish Burrows (C8) | | |
| Sediment Deposits (B2) | Oxidized Rhizospheres of | on Living Roots (C3) Sat | turation Visible on A | erial Imagery (C9) | |
| Drift Deposits (B3) | Presence of Reduced Irc | on (C4) Stu | inted or Stressed Pla | ants (D1) | |
| Algel Met en Orvet (D4) | | | | | |

| | .) | | eu Kinzospheres on Living | | Saturation visible on Aerial Intagery (C3) | | | |
|-----------------------------|-------------------|-----------------|------------------------------|----------------------|--|-----|----|---|
| Drift Deposits (B3) | | Preser | nce of Reduced Iron (C4) | _ | Stunted or Stressed Plants (D1) | | | |
| Algal Mat or Crust (B4) | l. | Recen | t Iron Reduction in Tilled S | Soils (C6) | Geomorphic Position (D2) | | | |
| Iron Deposits (B5) | | Thin M | luck Surface (C7) | - | Shallow Aquitard (D3) |) | | |
| Inundation Visible on A | erial Imagery (B | 7) Other | - | Microtopographic Rel | ief (D4) | | | |
| Sparsely Vegetated Co | oncave Surface (I | - | FAC-Neutral Test (D5 | 5) | | | | |
| Field Observations: | | | | | | | | |
| Surface Water Present? | Yes | No X | Depth (inches): | | | | | |
| Water Table Present? | Yes | No X | Depth (inches): | | | | | |
| Saturation Present? | | | | | Hydrology Present? | Yes | No | Х |
| (includes capillary fringe) | | | | _ | | | | |
| Describe Recorded Data (s | tream gauge, mo | onitoring well, | aerial photos, previous in | spections), if av | ailable: | | | |
| | | | | | | | | |
| | | | | | | | | |
| Remarks: | | | | | | | | |
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Sampling Point: UPL CEEE-2A

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | | | |
|--|---------------------|----------------------|---------------------|---|------|--|--|
| 1. 2. | | · | | Number of Dominant Species That Are OBL, FACW, or FAC:(A) |) | | |
| 3 4 | | · | | Total Number of Dominant Species Across All Strata: <u>2</u> (B) |) | | |
| 5. 6. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/ | /B) | | |
| 7 | | | | Prevalence Index worksheet: | | | |
| | | =Total Cover | | Total % Cover of: Multiply by: | | | |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 0 x 1 = 0 | | | |
| 1 | | | | FACW species 0 x 2 = 0 | | | |
| 2 | | | | FAC species 20 x 3 = 60 | | | |
| 3 | | | | FACU species x 4 =280 | | | |
| 4 | | | | UPL species 10 x 5 = 50 | | | |
| 5 | | | | Column Totals: 100 (A) 390 (| (B) | | |
| 6. | | | | Prevalence Index = B/A = 3.90 | | | |
| 7. | | | | Hydrophytic Vegetation Indicators: | | | |
| | | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation | | | |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% | | | |
| 1. Phleum pratense | 40 | Yes | FACU | 3 - Prevalence Index is ≤3.0 ¹ | | | |
| 2. Setaria pumila | 20 | Yes | FAC | 4 - Morphological Adaptations ¹ (Provide support | ting | | |
| 3. Taraxacum officinale | 15 | No | FACU | data in Remarks or on a separate sheet) | Ŭ | | |
| 4. Lotus corniculatus | 15 | No | FACU | Problematic Hydrophytic Vegetation ¹ (Explain) | | | |
| 5. Vicia cracca | 10 | No | UPL | | | | |
| 6. | | | | ¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. | t be | | |
| 7 | | | | Definitions of Vegetation Strata: | | | |
| 8 9 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height. | eter | | |
| 10. | | | | Sapling/shrub – Woody plants less than 3 in. DBH | | | |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. | | | |
| 12 | 100 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. | SS | | |
| Woody Vine Stratum (Plot size: 30') | | | | | | | |
| | | | | Woody vines – All woody vines greater than 3.28 ft height. | in | | |
| 1 2. | | | | hoight | | | |
| | | · | | Hydrophytic | | | |
| | | . <u> </u> | | Vegetation Present? Yes No X | | | |
| 4 | | =Total Cover | | Present? Yes No X | | | |
| | | | | | | | |
| Remarks: (Include photo numbers here or on a separ | ate sneet.) | | | | | | |
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| Profile Desc | ription: (Describe t | o the dep | oth needed to docu | ment th | e indica | tor or co | onfirm the absence of | of indicators.) |
|-------------------------|---|------------|----------------------|-----------|--------------------|------------------|------------------------|---|
| Depth | Matrix | | Redo | x Featur | es | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-6 | 10YR 2/1 | 100 | | | | | Sandy | |
| 6-13 | 10YR 4/3 | 75 | 10YR 5/6 | 25 | С | М | Mucky Loam/Clay | Distinct redox concentrations |
| | | | | | | | | |
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| ¹ Tvpe: C=Co | ncentration, D=Depl | etion. RM: | Reduced Matrix. M | S=Mask | ed Sand | Grains. | ² Location: | PL=Pore Lining, M=Matrix. |
| Hydric Soil I | | | , | | | | | for Problematic Hydric Soils ³ : |
| Histosol | (A1) | | Polyvalue Belo | w Surfac | ce (S8) (L | .RR R, | 2 cm N | Muck (A10) (LRR K, L, MLRA 149B) |
| | ipedon (A2) | | MLRA 149B | , | | | | Prairie Redox (A16) (LRR K, L, R) |
| Black His | | | Thin Dark Surfa | | | | 149B) 5 cm N | Mucky Peat or Peat (S3) (LRR K, L, R) |
| | n Sulfide (A4) | | High Chroma S | | | | | lue Below Surface (S8) (LRR K, L) |
| Stratified | Layers (A5) | | Loamy Mucky I | Mineral (| F1) (LRF | R K, L) | Thin D | ark Surface (S9) (LRR K, L) |
| Depleted | Below Dark Surface | e (A11) | Loamy Gleyed | Matrix (F | -2) | | | anganese Masses (F12) (LRR K, L, R) |
| Thick Da | rk Surface (A12) | | Depleted Matrix | x (F3) | | | Piedm | ont Floodplain Soils (F19) (MLRA 149B) |
| Sandy M | ucky Mineral (S1) | | Redox Dark Su | urface (F | 6) | | Mesic | Spodic (TA6) (MLRA 144A, 145, 149B) |
| Sandy Gl | leyed Matrix (S4) | | Depleted Dark | Surface | (F7) | | Red Pa | arent Material (F21) |
| Sandy Re | edox (S5) | | Redox Depress | sions (F8 | 3) | | Very S | hallow Dark Surface (F22) |
| Stripped | Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other | (Explain in Remarks) |
| Dark Sur | face (S7) | | | | | | — | |
| 3 | | | | | | | | |
| | hydrophytic vegetati ayer (if observed): | on and we | etland hydrology mus | st be pre | esent, uni | ess distu | rbed or problematic. | |
| Type: | Roc | ĸ | | | | | | |
| - | iches): | 13 | | | | | Hydric Soil Pres | ent? Yes <u>No X</u> |
| Remarks: | · | | | | | | | |
| itemarks. | | | | | | | | |
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Upland CEEE-2A View facing south/southwest



Upland CEEE-2A Soils

Phase 1

SITE PHOTOGRAPHS

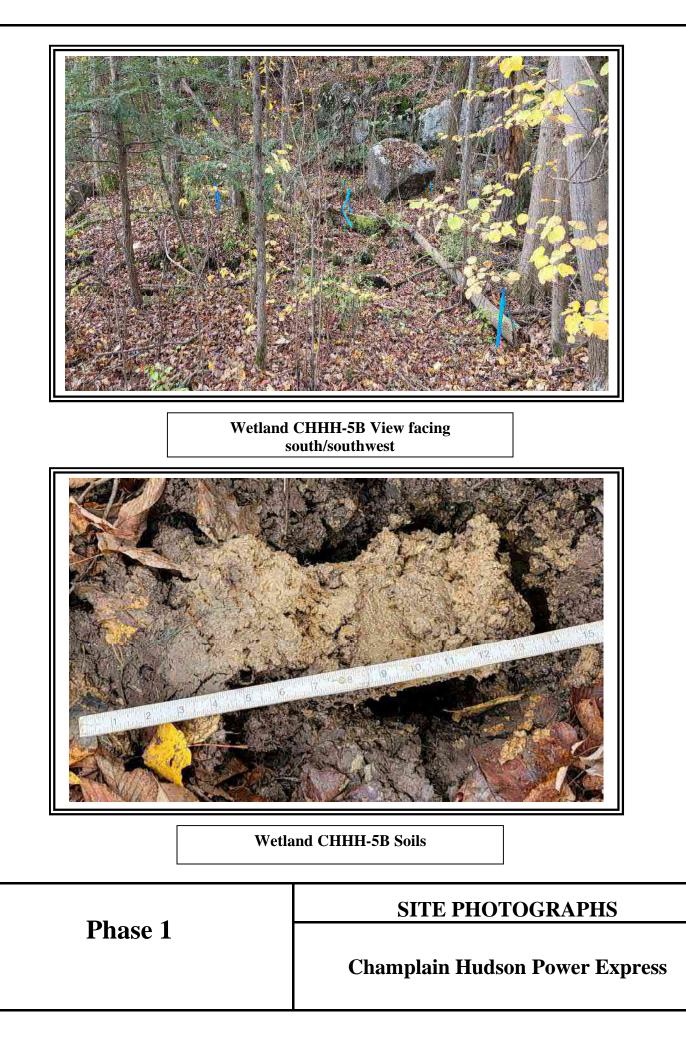
Champlain Hudson Power Express

| Project/Site: CHPE | City/County: Dresden / Washington Sampling Date: 10/19/21 |
|---|---|
| Applicant/Owner: TDI | State: NY Sampling Point: WET CHHIH-5B |
| Investigator(s): J. Greaves, C. Scrivner | Section, Township, Range: |
| Landform (hillside, terrace, etc.): Depression Local | relief (concave, convex, none): Concave Slope %: 3 |
| Subregion (LRR or MLRA): LRR R Lat: 43-35-49.62N | Long: 73-26-2.41W Datum: WGS 84 |
| Soil Map Unit Name: HLE - Hollis-Charlton association, moderately steep a | and steep NWI classification: PFO1 |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes X No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly distur | |
| | |
| Are Vegetation, Soil, or Hydrologynaturally problema | atic? (If needed, explain any answers in Remarks.) npling point locations, transects, important features, etc. |
| | |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No |
| Wetland Hydrology Present? Yes X No | If yes, optional Wetland Site ID: Near Flag WET CHHH-5B |
| Palustrine Forested Wetland. Edinger classification: Red-maple Hardwood | Swamp. |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1)Water-Stained Leaves (I | B9) Drainage Patterns (B10) |
| X High Water Table (A2) Aquatic Fauna (B13) | Moss Trim Lines (B16) |
| X Saturation (A3) Marl Deposits (B15) | Dry-Season Water Table (C2) |
| Water Marks (B1) Hydrogen Sulfide Odor (| |
| Sediment Deposits (B2) X Oxidized Rhizospheres of | |
| Drift Deposits (B3) Presence of Reduced Iro | |
| Algal Mat or Crust (B4) Iron Deposits (B5) Recent Iron Reduction ir Thin Muck Surface (C7) | |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar | |
| Sparsely Vegetated Concave Surface (B8) | X FAC-Neutral Test (D5) |
| Field Observations: | |
| Surface Water Present? Yes <u>No X</u> Depth (inches): | |
| Water Table Present? Yes X No Depth (inches): | |
| Saturation Present? Yes X No Depth (inches): | |
| (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre | evious inspections), if available: |
| | |
| Remarks: | |
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Sampling Point: WET CHHH-5E

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | | |
|---|---------------------|----------------------|---------------------|--|--|--|
| 1. Ulmus americana | <u>30</u> | Yes | FACW | Dominance rest worksheet. | | |
| 2. Acer rubrum | 25 | Yes | FAC | Number of Dominant SpeciesThat Are OBL, FACW, or FAC:4(A) | | |
| | | 165 | FAC | $\frac{1}{1}$ | | |
| 3. | | | | Total Number of Dominant Species Across All Strata: 5 (B) | | |
| 4 | | | | Species Across All Strata: 5 (B) | | |
| 5 6 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80.0%</u> (A/B) | | |
| 7 | | | | Prevalence Index worksheet: | | |
| | 55 | =Total Cover | | Total % Cover of: Multiply by: | | |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 0 x 1 = 0 | | |
| 1. Ulmus americana | 3 | Yes | FACW | FACW species 45 x 2 =90 | | |
| 2. Tsuga canadensis | 3 | Yes | FACU | FAC species x 3 =75 | | |
| 3 | | | | FACU species3 x 4 =12 | | |
| 4 | | | | UPL species 0 x 5 = 0 | | |
| 5. | | | | Column Totals: 73 (A) 177 (B) | | |
| 6. | | | | Prevalence Index = B/A = 2.42 | | |
| 7. | | | | Hydrophytic Vegetation Indicators: | | |
| | 6 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation | | |
| Herb Stratum (Plot size: 5') | | - | | X 2 - Dominance Test is >50% | | |
| 1. Solidago gigantea | 8 | Yes | FACW | X 3 - Prevalence Index is $\leq 3.0^1$ | | |
| 2. Ulmus americana | | No | FACW | 4 - Morphological Adaptations ¹ (Provide supporting | | |
| 3. Thelypteris palustris | | No | FACW | data in Remarks or on a separate sheet) | | |
| 4. | | | | Problematic Hydrophytic Vegetation ¹ (Explain) | | |
| 5 6 | | | | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. | | |
| 7. | | | | Definitions of Vegetation Strata: | | |
| 8. | | | | | | |
| 9. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. | | |
| 10 | | | | Sapling/shrub – Woody plants less than 3 in. DBH | | |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. | | |
| 12 | 12 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. | | |
| Woody Vine Stratum (Plot size: 30') | | | | | | |
| | | | | Woody vines – All woody vines greater than 3.28 ft in height. | | |
| | | | | Toight. | | |
| 2 | | | | Hydrophytic | | |
| | | | | Vegetation Present? Yes X No | | |
| 4 | | | | Present? Yes <u>X</u> No | | |
| | | =Total Cover | | | | |
| Remarks: (Include photo numbers here or on a sepa | rate sheet.) | | | | | |
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| Profile Desc | ription: (Describe t | o the de | oth needed to docu | ment th | e indica | tor or co | onfirm the absence of | indicators.) | | |
|-----------------------------|---|-----------|----------------------|------------------|--------------------|-------------------|-----------------------------------|--|--|--|
| Depth Matrix Redox Features | | | | | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | | |
| 0-5 | 10YR 2/1 | 84 | 10YR 5/8 | 10 | С | М | Mucky Loam/Clay | Prominent redox concentrations | | |
| | | | 10YR 5/4 | 5 | С | Μ | | Distinct redox concentrations | | |
| | | | 10YR 4/4 | 1 | С | PL | | Distinct redox concentrations | | |
| 5-16 | 10YR 5/1 | 60 | 10YR 5/6 | 20 | С | М | Mucky Loam/Clay | Prominent redox concentrations | | |
| | | | 10YR 5/4 | 10 | С | Μ | | Distinct redox concentrations | | |
| | | | 7.5YR 4/6 | 10 | С | PL | | Prominent redox concentrations | | |
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| · | | | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=Depl | etion, RM | =Reduced Matrix, M | S=Mask | ed Sand | Grains. | ² Location: P | L=Pore Lining, M=Matrix. | | |
| Hydric Soil I | ndicators: | | | | | | | or Problematic Hydric Soils ³ : | | |
| Histosol | (A1) | | Polyvalue Belo | w Surfac | ce (S8) (I | _RR R, | 2 cm Mu | uck (A10) (LRR K, L, MLRA 149B) | | |
| Histic Ep | ipedon (A2) | | MLRA 149B) |) | | | ? Coast Pr | rairie Redox (A16) (LRR K, L, R) | | |
| Black His | stic (A3) | | Thin Dark Surfa | ace (S9) | (LRR R, | MLRA 1 | 149B) 5 cm Mu | ucky Peat or Peat (S3) (LRR K, L, R) | | |
| Hydroger | n Sulfide (A4) | | High Chroma S | Sands (S | 511) (LRF | R K, L) | Polyvalu | e Below Surface (S8) (LRR K, L) | | |
| | Layers (A5) | | Loamy Mucky | | | | | | | |
| | , | (| | | | 、 ι、, ∟) | Thin Dark Surface (S9) (LRR K, L) | | | |
| | Below Dark Surface | e (A11) | Loamy Gleyed | | -2) | | | nganese Masses (F12) (LRR K, L, R) | | |
| Thick Da | rk Surface (A12) | | X Depleted Matrix | x (F3) | | | Piedmor | nt Floodplain Soils (F19) (MLRA 149B) | | |
| Sandy M | ucky Mineral (S1) | | X Redox Dark Su | Irface (F | 6) | | Mesic S | Mesic Spodic (TA6) (MLRA 144A, 145, 149B) | | |
| Sandy G | leyed Matrix (S4) | | Depleted Dark | Surface | (F7) | | Red Par | ent Material (F21) | | |
| | edox (S5) | | ? Redox Depress | | | | Verv Sha | allow Dark Surface (F22) | | |
| | Matrix (S6) | | Marl (F10) (LR | | | | Other (Explain in Remarks) | | | |
| | face (S7) | | | ιτις, Ε) | | | | | | |
| 3 | | | | | | | | | | |
| | hydrophytic vegetati ayer (if observed): | on and w | etland hydrology mus | st be pre | esent, unl | ess distu | Irbed or problematic. | | | |
| Туре: | | | | | | | | | | |
| Depth (ir | nches): | | | | | | Hydric Soil Preser | nt? Yes <u>X</u> No | | |
| Remarks: | | | | | | | | | | |
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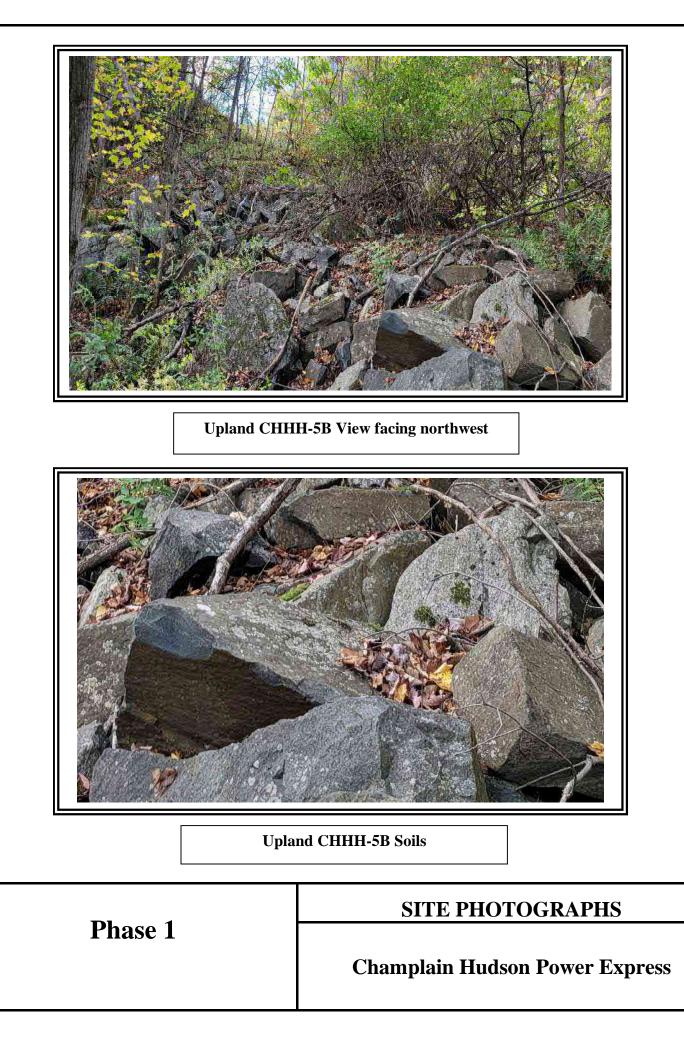
| Project/Site: CHPE | | City/County: Dresden / Washington | Sampling Date: 10/19/21 |
|--|-------------------------------------|---|-----------------------------|
| Applicant/Owner: TDI | | State: NY | Sampling Point: UPL CHHH-5B |
| Investigator(s): J. Greaves, C. Scrivner | | Section, Township, Range: | |
| Landform (hillside, terrace, etc.): Hills | ope Local r | relief (concave, convex, none): Concave | Slope %: 10 |
| Subregion (LRR or MLRA): LRR R | Lat: 43-35-49.54N | Long: 73-26-2.92W | Datum: WGS 84 |
| Soil Map Unit Name: HLE - Hollis-Char | ton association, moderately steep a | and steep NWI classification: | NA |
| Are climatic / hydrologic conditions on the | site typical for this time of year? | Yes X No (If no, e | explain in Remarks.) |
| Are Vegetation , Soil , or H | lydrology significantly disturb | Ded? Are "Normal Circumstances" pres | ent? Yes X No |
| Are Vegetation, Soil, or H | | | n Remarks.) |
| | | pling point locations, transects, ir | mportant features, etc. |
| Hydrophytic Vegetation Present? | Yes No X | Is the Sampled Area | |
| Hydric Soil Present? | Yes No X | within a Wetland? Yes | No_X |
| Wetland Hydrology Present? | Yes No X | If yes, optional Wetland Site ID: | |
| Remarks: (Explain alternative procedur Successional Northern Hardwood Fores | • • • • | | |
| HYDROLOGY | | | |
| Wetland Hydrology Indicators: | | Secondary Indicators (r | minimum of two required) |
| Primary Indicators (minimum of one is re | equired; check all that apply) | Surface Soil Crack | .s (B6) |
| Surface Water (A1) | Water-Stained Leaves (B | · • | · · · |
| High Water Table (A2) | Aquatic Fauna (B13) | Moss Trim Lines (E | 316) |
| Saturation (A3) | Marl Deposits (B15) | Dry-Season Water | Table (C2) |

| High Water Table (A2) | | Aquatic | quatic Fauna (B13) Moss Trim Lines (B16) | | | | |
|-----------------------------|------------------|------------------|--|------------------|-----------------------|---------------|--------|
| Saturation (A3) | | Marl De | arl Deposits (B15) Dry-Season Water Table (C2) | | | | |
| Water Marks (B1) | | Hydrog | gen Sulfide Odor (C1) Crayfish Burrows (C8) | | | | |
| Sediment Deposits (B2) | | Oxidize | d Rhizospheres on Living | Roots (C3) | Saturation Visible on | Aerial Imager | y (C9) |
| Drift Deposits (B3) | | Presen | ce of Reduced Iron (C4) | - | Stunted or Stressed F | Plants (D1) | |
| Algal Mat or Crust (B4) | | Recent | Iron Reduction in Tilled S | oils (C6) | Geomorphic Position | (D2) | |
| Iron Deposits (B5) | | Thin Mu | uck Surface (C7) | | Shallow Aquitard (D3) |) | |
| Inundation Visible on Ae | rial Imagery (B7 |) Other (I | Explain in Remarks) | - | Microtopographic Rel | ief (D4) | |
| Sparsely Vegetated Con | icave Surface (B | 38) | | - | FAC-Neutral Test (D5 | 5) | |
| Field Observations: | | | | | | | |
| Surface Water Present? | Yes | No X | Depth (inches): | | | | |
| Water Table Present? | Yes | No X | Depth (inches): | - | | | |
| Saturation Present? | Yes | No X | Depth (inches): | Wetland | Hydrology Present? | Yes | No X |
| (includes capillary fringe) | | | | - | | | |
| Describe Recorded Data (str | eam gauge, mo | nitoring well, a | aerial photos, previous ins | spections), if a | vailable: | | |
| | | | | | | | |
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| Remarks: | | | | | | | |
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Sampling Point: UPL CHHH-5B

| | Absolute | Dominant | Indicator | | | |
|--|-------------|--------------|-----------|--|--|--|
| Tree Stratum (Plot size: 30') | % Cover | Species? | Status | Dominance Test worksheet: | | |
| 1. Quercus rubra | 25 | Yes | FACU | Number of Dominant Species | | |
| 2. Quercus velutina | 25 | Yes | UPL | That Are OBL, FACW, or FAC:(A) | | |
| Ostrya virginiana 4. | 10 | No | FACU | Total Number of Dominant Species Across All Strata: <u>6</u> (B) | | |
| 5. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B) | | |
| 7. | | · | | Prevalence Index worksheet: | | |
| | 60 | =Total Cover | | Total % Cover of: Multiply by: | | |
| Sapling/Shrub Stratum (Plot size: 15') | | | | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | |
| 1. Lonicera morrowii | 15 | Yes | FACU | FACW species $3 \times 2 = 6$ | | |
| | | | 17100 | FAC species $3 \times 3 = 9$ | | |
| | | | | FACU species $55 \times 4 = 220$ | | |
| | | | | UPL species 25 $x5 =$ 125 | | |
| | | | | Column Totals: 86 (A) 360 (B) | | |
| | | · | | | | |
| 6. | | · | | | | |
| 7 | | | | Hydrophytic Vegetation Indicators: | | |
| | 15 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation | | |
| Herb Stratum (Plot size: 5') | _ | | | 2 - Dominance Test is >50% | | |
| 1. Lonicera morrowii | - | Yes | FACU | 3 - Prevalence Index is ≤3.0 ¹ | | |
| 2. <u>Thelypteris noveboracensis</u> | 3 | Yes | FAC | 4 - Morphological Adaptations ¹ (Provide supportindata in Remarks or on a separate sheet) | | |
| 3. <u>Pilea pumila</u> | 3 | Yes | FACW | | | |
| 4 | | | | Problematic Hydrophytic Vegetation ¹ (Explain) | | |
| 5 6 | | · | | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. | | |
| 7. | | | | Definitions of Vegetation Strata: | | |
| 8. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter | | |
| 9. | | | | at breast height (DBH), regardless of height. | | |
| 10 11 | | · | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. | | |
| 12. | | | | | | |
| | 11 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. | | |
| Woody Vine Stratum (Plot size: 30') | | - | | | | |
| 1, | | | | Woody vines – All woody vines greater than 3.28 ft in height. | | |
| | | · | | | | |
| | | · | | Hydrophytic | | |
| | | · | | Vegetation Present? Yes No X | | |
| 4. | | =Total Cover | | | | |
| Demorias (Include at sta sumb as the second | | | | I | | |
| Remarks: (Include photo numbers here or on a separ | ate sheet.) | | | | | |
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| Depth | Matrix | | | ox Featur | | | nfirm the absence of in | ······ | |
|------------------------------|------------------|-----------|----------------------|------------|--------------------|------------------|---------------------------|-------------------------------|-------------------------|
| (inches) C | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Rema | rks |
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| | | | | | | | | | |
| ¹ Type: C=Concent | tration. D=Depl | etion. RM | I=Reduced Matrix, I | //S=Mask | ed Sand | Grains. | ² Location: PL | .=Pore Lining, M=Ma | trix. |
| Hydric Soil Indica | | | , , , , | | | | | r Problematic Hydri | |
| Histosol (A1) | | | Polyvalue Bel | ow Surfa | ce (S8) (L | .RR R, | 2 cm Muc | ck (A10) (LRR K, L, I | MLRA 149B) |
| Histic Epipedo | n (A2) | | MLRA 149 | B) | | | Coast Pra | airie Redox (A16) (LF | RR K, L, R) |
| Black Histic (A | .3) | | Thin Dark Su | face (S9) |) (LRR R, | MLRA 14 | 49B) 5 cm Muc | cky Peat or Peat (S3) | (LRR K, L, R) |
| Hydrogen Sulf | ide (A4) | | High Chroma | Sands (S | 611) (LR R | K, L) | Polyvalue | e Below Surface (S8) | (LRR K, L) |
| Stratified Laye | rs (A5) | | Loamy Mucky | Mineral | (F1) (LRF | R K, L) | Thin Dark | s Surface (S9) (LRR | K, L) |
| Depleted Belo | w Dark Surface | e (A11) | Loamy Gleye | d Matrix (| F2) | | Iron-Man | ganese Masses (F12 | 2) (LRR K, L, R) |
| Thick Dark Su | rface (A12) | | Depleted Mat | rix (F3) | | | Piedmont | t Floodplain Soils (F1 | 9) (MLRA 149B) |
| Sandy Mucky | Mineral (S1) | | Redox Dark S | Surface (F | 6) | | Mesic Sp | odic (TA6) (MLRA 1 4 | 44A, 145, 149B) |
| Sandy Gleyed | Matrix (S4) | | Depleted Dar | k Surface | (F7) | | Red Pare | ent Material (F21) | |
| Sandy Redox | (S5) | | Redox Depres | ssions (F | 8) | | | llow Dark Surface (F | 22) |
| Stripped Matrix | < (S6) | | Marl (F10) (L | RR K, L) | | | Other (Ex | plain in Remarks) | |
| Dark Surface (| S7) | | | | | | | | |
| | | | | | | | | | |
| | | on and w | etland hydrology m | ust be pre | esent, unl | ess distur | bed or problematic. | | |
| Restrictive Layer | · / | | | | | | | | |
| Туре: | Riprap / B | oulders | | | | | | | |
| Depth (inches) |): | 0 | | | | | Hydric Soil Present | t? Yes | <u>No X</u> |
| Remarks: | | | | | | | | | |
| | riprap boulders. | Therefor | re, no soils were co | lected. | | | | | |
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| Project/Site: CHPE | City/County: Dresden / Washington Sampling Date: 10/19/21 |
|---|--|
| Applicant/Owner: TDI | State: NY Sampling Point: WET CFFF-3A |
| Investigator(s): J. Greaves, C. Scrivner | Section, Township, Range: |
| | relief (concave, convex, none): Concave Slope %: 2 |
| Subregion (LRR or MLRA): LRR R Lat: 43-35-41.97N | Long: 73-26-3.88W Datum: WGS 84 |
| Soil Map Unit Name: HLE - Hollis-Charlton association, moderately steep a | |
| · | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes X No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly disturb | |
| Are Vegetation, Soil, or Hydrologynaturally problemation | atic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sam | pling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No |
| Wetland Hydrology Present? Yes X No | If yes, optional Wetland Site ID: Near Flag WET CFFF-3A |
| Remarks: (Explain alternative procedures here or in a separate report.) | |
| Palustrine Emergent Marsh dominated by purple loosestrife Edinger classi | ification: Purple Loosestrife Marsh. |
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| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| X Surface Water (A1) Water-Stained Leaves (B | |
| X High Water Table (A2) Aquatic Fauna (B13) | Moss Trim Lines (B16) |
| X Saturation (A3) Marl Deposits (B15) | Dry-Season Water Table (C2) |
| Water Marks (B1) Hydrogen Sulfide Odor (C | |
| Sediment Deposits (B2) Oxidized Rhizospheres o | |
| Drift Deposits (B3) Presence of Reduced Iro | |
| Algal Mat or Crust (B4) Recent Iron Reduction in | |
| Iron Deposits (B5) Thin Muck Surface (C7) | X Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark | |
| Sparsely Vegetated Concave Surface (B8) | X FAC-Neutral Test (D5) |
| Field Observations: | |
| Surface Water Present? Yes X No Depth (inches): | 1 |
| Water Table Present? Yes X No Depth (inches): | |
| Saturation Present? Yes X No Depth (inches): | |
| (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev | vious inspections), if available: |
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| | |
| Remarks: | |
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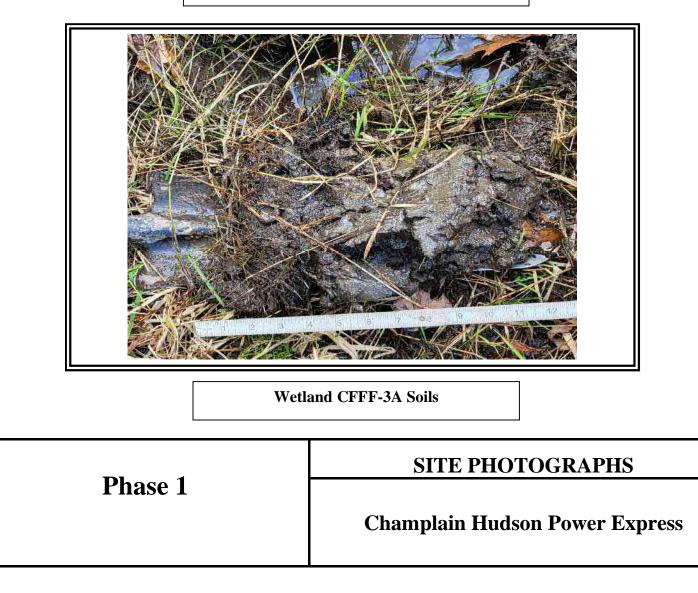
Sampling Point: WET CFFF-3A

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | | |
|--|---------------------|----------------------|---------------------|--|--|--|
| 1. 2. | | · | | Number of Dominant Species That Are OBL, FACW, or FAC:2 (A) | | |
| 3. 4. | | · | | Total Number of Dominant Species Across All Strata:2(B) | | |
| 5. 6. | | · | | Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) | | |
| 7 | | | | Prevalence Index worksheet: | | |
| | | =Total Cover | | Total % Cover of: Multiply by: | | |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species <u>63</u> x 1 = <u>63</u> | | |
| 1. Lonicera morrowii | 3 | No | FACU | FACW species 40 x 2 = 80 | | |
| 2 | | | | FAC species <u>5</u> x 3 = <u>15</u> | | |
| 3 | | | | FACU species <u>3</u> x 4 = <u>12</u> | | |
| 4 | | | | UPL species 0 x 5 = 0 | | |
| 5 | | | | Column Totals: 111 (A) 170 (B) | | |
| 6. | | | | Prevalence Index = B/A = 1.53 | | |
| 7. | | | | Hydrophytic Vegetation Indicators: | | |
| | 3 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation | | |
| Herb Stratum (Plot size: 5') | | • | | X 2 - Dominance Test is >50% | | |
| 1. Lythrum salicaria | 35 | Yes | OBL | X 3 - Prevalence Index is $\leq 3.0^1$ | | |
| 2. Onoclea sensibilis | 35 | Yes | FACW | 4 - Morphological Adaptations ¹ (Provide supporting | | |
| 3. Leersia oryzoides | 15 | No | OBL | data in Remarks or on a separate sheet) | | |
| 4. Typha angustifolia | 5 | No | OBL | Problematic Hydrophytic Vegetation ¹ (Explain) | | |
| 5. Epilobium coloratum | 5 | No | OBL | | | |
| 6. Impatiens capensis | 5 | No | FACW | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. | | |
| 7. Equisetum arvense | 5 | No | FAC | Definitions of Vegetation Strata: | | |
| 8. Carex lurida | 3 | No | OBL | | | |
| 9 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. | | |
| 10 11. | | · | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. | | |
| 12. | | | | | | |
| | 108 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. | | |
| Woody Vine Stratum (Plot size: 30') | | | | Woody vines – All woody vines greater than 3.28 ft in | | |
| 1 | | · | | height. | | |
| 2 | | | | Hydrophytic | | |
| 3 | | | | Vegetation | | |
| 4 | | | | Present? Yes X No | | |
| | | =Total Cover | | | | |
| Remarks: (Include photo numbers here or on a separ | ate sheet.) | | | | | |
| | | | | | | |

| Profile Desc | cription: (Describe | to the de | oth needed to docu | iment th | e indica | tor or co | onfirm the absence of indica | ators.) |
|-------------------------|---------------------------------|------------|-----------------------------|-----------|--------------------|------------------|-------------------------------|--|
| Depth | Matrix | | | x Featur | | <u> </u> | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-4 | 10YR 2/1 | 100 | | | | | Mucky Loam/Clay | |
| 4-13 | 10YR 3/1 | 60 | 10YR 2/1 | 35 | С | М | Mucky Loam/Clay | Faint redox concentrations |
| | | | 10YR 4/3 | 5 | С | М | | Distinct redox concentrations |
| | | | | | | | | |
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| | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=Depl | letion, RM | =Reduced Matrix, M | IS=Mask | ed Sand | Grains. | ² Location: PL=Por | e Lining, M=Matrix. |
| Hydric Soil | Indicators: | | | | | | Indicators for Pro | blematic Hydric Soils ³ : |
| Histosol | | | Polyvalue Belo | | ce (S8) (I | _RR R, | | 10) (LRR K, L, MLRA 149B) |
| | bipedon (A2) | | MLRA 149B | , | | | | Redox (A16) (LRR K, L, R) |
| Black Hi | | | Thin Dark Surf | | | | | eat or Peat (S3) (LRR K, L, R) |
| | n Sulfide (A4) d Layers (A5) | | High Chroma S | | | | | w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) |
| | d Below Dark Surface | - (Δ11) | Loamy Mucky Loamy Gleyed | | | (r , L) | | se Masses (F12) (LRR K, L, R) |
| | ark Surface (A12) | 5 (711) | Depleted Matri | | 2) | | | dplain Soils (F19) (MLRA 149B) |
| | lucky Mineral (S1) | | X Redox Dark Su | . , | 6) | | | (TA6) (MLRA 144A, 145, 149B) |
| | Bleyed Matrix (S4) | | Depleted Dark | | | | Red Parent Ma | |
| | ledox (S5) | | ? Redox Depres | | | | | Dark Surface (F22) |
| Stripped | Matrix (S6) | | Marl (F10) (LR | R K, L) | | | Other (Explain | in Remarks) |
| Dark Su | rface (S7) | | | | | | | |
| | | | | | | | | |
| | f hydrophytic vegetat | | etland hydrology mu | st be pre | esent, unl | ess distu | irbed or problematic. | |
| | Layer (if observed): | | | | | | | |
| Type: | Ro | | | | | | | |
| Depth (ir | nches): | 13 | | | | | Hydric Soil Present? | Yes X No |
| Remarks: | | | | | | | | |
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Wetland CFFF-3A View facing north/northeast

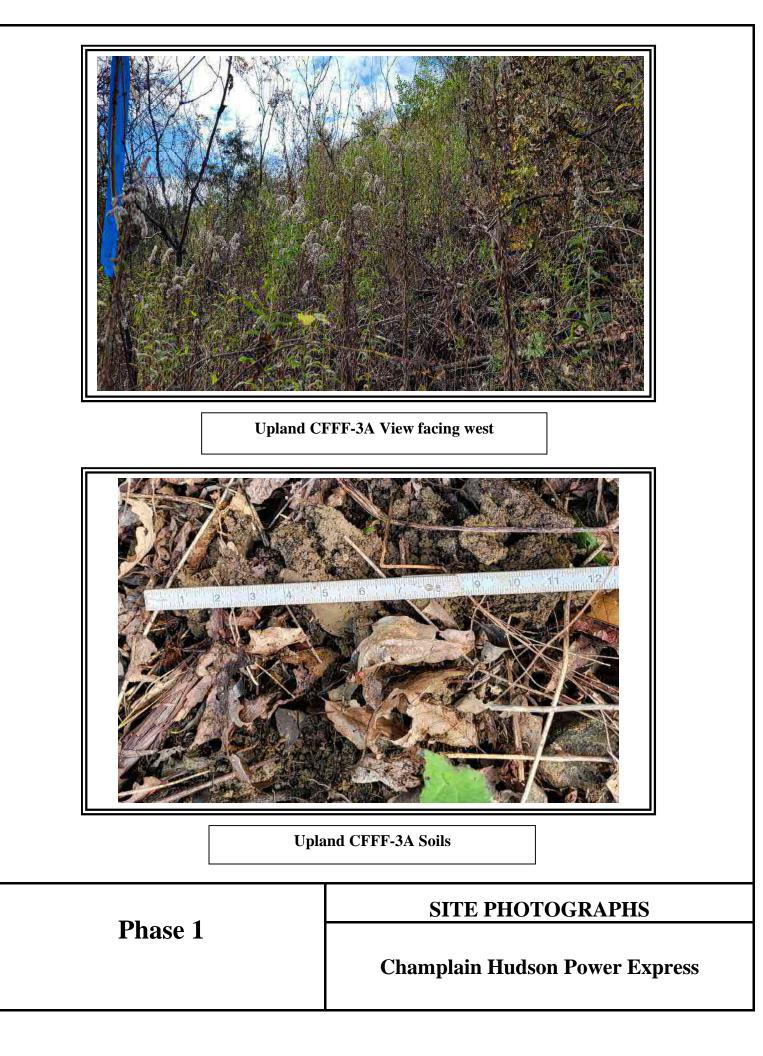


| Project/Site: CHPE | City/County: Dresden / Washington Sampling Date: 10/19/21 |
|---|---|
| Applicant/Owner: TDI | State: NY Sampling Point: UPL CFFF-3A |
| Investigator(s): J. Greaves, C. Scrivner | Section, Township, Range: |
| | relief (concave, convex, none): Convex Slope %: 45 |
| Subregion (LRR or MLRA): LRR R Lat: 43-35-42.16N | Long: 73-26-4.31W Datum: WGS 84 |
| Soil Map Unit Name: <u>HLE - Hollis-Charlton association, moderately steep a</u> | |
| | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes X No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignificantly disturb | |
| Are Vegetation, Soil, or Hydrologynaturally problemation | tic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sam | pling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes <u>No X</u> | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes No X |
| Wetland Hydrology Present? Yes No X | If yes, optional Wetland Site ID: |
| Remarks: (Explain alternative procedures here or in a separate report.) Successional Old Field. | |
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| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1)Water-Stained Leaves (B | B9) Drainage Patterns (B10) |
| High Water Table (A2)Aquatic Fauna (B13) | Moss Trim Lines (B16) |
| Saturation (A3)Marl Deposits (B15) | Dry-Season Water Table (C2) |
| Water Marks (B1) Hydrogen Sulfide Odor (C | |
| Sediment Deposits (B2)Oxidized Rhizospheres o | |
| Drift Deposits (B3) Presence of Reduced Iro | |
| Algal Mat or Crust (B4) Recent Iron Reduction in | |
| Iron Deposits (B5) Thin Muck Surface (C7) | Shallow Aguitard (D2) |
| | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark | ks) Microtopographic Relief (D4) |
| Sparsely Vegetated Concave Surface (B8) | |
| Sparsely Vegetated Concave Surface (B8) | ks) Microtopographic Relief (D4) FAC-Neutral Test (D5) |
| Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No _X Depth (inches): | ks)Microtopographic Relief (D4) FAC-Neutral Test (D5) |
| Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes No X Depth (inches): No X Depth (inches): | ks) Microtopographic Relief (D4) FAC-Neutral Test (D5) |
| Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): | ks) Microtopographic Relief (D4) FAC-Neutral Test (D5) |
| Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Ves Ves Ves | ks) Microtopographic Relief (D4) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes NoX |
| Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): | ks) Microtopographic Relief (D4) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes NoX |
| Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Ves Ves Ves | ks) Microtopographic Relief (D4) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes NoX |
| Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, prevention | ks) Microtopographic Relief (D4) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes NoX |
| Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Ves Ves Ves | ks) Microtopographic Relief (D4) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes NoX |
| Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, prevention | ks) Microtopographic Relief (D4) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes NoX |
| Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, prevention | ks) Microtopographic Relief (D4) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes NoX |

Sampling Point: UPL CFFF-3A

| Stratum (Plot size: 30') | % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|------------------------------------|---------|----------------------|---------------------|---|
| Quercus rubra | 25 | Yes | FACU | Number of Deminent Creation |
| Quercus velutina | 25 | Yes | UPL | Number of Dominant SpeciesThat Are OBL, FACW, or FAC:0(A) |
| Ostrya virginiana | 10 | No | FACU | Total Number of Dominant |
| | | | | Species Across All Strata: 6 (B) |
| | | | | |
| | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/ |
| | | | | Prevalence Index worksheet: |
| | 60 | =Total Cover | | Total % Cover of: Multiply by: |
| ing/Shrub Stratum (Plot size: 15') | | | | OBL species 0 x 1 = 0 |
| Lonicera morrowii | 20 | Yes | FACU | FACW species $0 	 x 2 = 0$ |
| Rhus typhina | 15 | Yes | UPL | FAC species $23 \times 3 = 69$ |
| Juniperus virginiana | 3 | No | FACU | FACU species 103 x 4 = 412 |
| · · · · · | | | | UPL species 45 x 5 = 225 |
| | | | | Column Totals: 171 (A) 706 (|
| | | | | Prevalence Index = $B/A = 4.13$ |
| | | | | Hydrophytic Vegetation Indicators: |
| | 38 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| <u>) Stratum</u> (Plot size: 5') | | | | 2 - Dominance Test is >50% |
| Solidago canadensis | 35 | Yes | FACU | 3 - Prevalence Index is ≤3.0 ¹ |
| Solidago rugosa | 10 | No | FAC | 4 - Morphological Adaptations ¹ (Provide support |
| Euthamia graminifolia | 10 | No | FAC | data in Remarks or on a separate sheet) |
| Rubus occidentalis | 5 | No | UPL | Problematic Hydrophytic Vegetation ¹ (Explain) |
| Tussilago farfara | 5 | No | FACU | |
| Acer rubrum | 3 | No | FAC | ¹ Indicators of hydric soil and wetland hydrology mus present, unless disturbed or problematic. |
| | | | | Definitions of Vegetation Strata: |
| | | | | |
| | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height. |
| | | | | |
| | | | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. |
| | | | | |
| | | Tetel Course | | Herb – All herbaceous (non-woody) plants, regardle |
| | 68 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| by Vine Stratum (Plot size: 30') | - | Vee | FACU | Woody vines – All woody vines greater than 3.28 ft |
| Vitis aestivalis | 5 | Yes | FACU | height. |
| | | | | Hydrophytic |
| | | | | Vegetation |
| | | | | Present? Yes No X |
| | | =Total Cover | | |

| Profile Desc | ription: (Describe t | to the de | oth needed to docu | ment th | e indica | tor or co | onfirm the absence of | indicators.) |
|-------------------------|---|-----------|---------------------|-----------|--------------------|--|------------------------|--|
| Depth | Matrix | | Redo | x Featur | es | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-12 | 10YR 4/2 | 80 | 10YR 6/6 | 20 | С | М | Mucky Loam/Clay | Prominent redox concentrations |
| | | | | | | | | |
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| ¹ Type: C=Co | ncentration, D=Depl | etion, RM | =Reduced Matrix, M | S=Mask | ed Sand | Grains. | | PL=Pore Lining, M=Matrix. |
| Hydric Soil I | ndicators: | | | | | | Indicators f | for Problematic Hydric Soils ³ : |
| Histosol | (A1) | | Polyvalue Belo | w Surfac | ce (S8) (I | _RR R, | 2 cm Mi | uck (A10) (LRR K, L, MLRA 149B) |
| Histic Ep | ipedon (A2) | | MLRA 149B |) | | | Coast P | Prairie Redox (A16) (LRR K, L, R) |
| Black His | tic (A3) | | Thin Dark Surf | ace (S9) | (LRR R, | MLRA 1 | 1 49B) 5 cm Mi | ucky Peat or Peat (S3) (LRR K, L, R) |
| Hydroger | n Sulfide (A4) | | High Chroma S | Sands (S | 611) (LRF | R K, L) | Polyvalu | ue Below Surface (S8) (LRR K, L) |
| | Layers (A5) | | Loamy Mucky | | | | | ark Surface (S9) (LRR K, L) |
| | | (111) | | | | 、 | | |
| | Below Dark Surface | ; (ATT) | Loamy Gleyed | | r <i>z)</i> | | | inganese Masses (F12) (LRR K, L, R) |
| | rk Surface (A12) | | X Depleted Matri | . , | | | | nt Floodplain Soils (F19) (MLRA 149B) |
| Sandy M | ucky Mineral (S1) | | Redox Dark Su | urface (F | 6) | | Mesic S | Spodic (TA6) (MLRA 144A, 145, 149B) |
| Sandy Gl | eyed Matrix (S4) | | Depleted Dark | Surface | (F7) | | Red Par | rent Material (F21) |
| Sandy Re | edox (S5) | | Redox Depress | sions (F | 8) | | Very Sh | allow Dark Surface (F22) |
| | Matrix (S6) | | Marl (F10) (LR | | , | | | Explain in Remarks) |
| Dark Sur | | | | , _, | | | | |
| 3 | | | | | | | | |
| | hydrophytic vegetati ayer (if observed): | ion and w | etland hydrology mu | st be pre | esent, unl | ess distu | rbed or problematic. | |
| Туре: | Roc | ck | | | | | | |
| Depth (in | ches): | 12 | | | | | Hydric Soil Prese | nt? Yes <u>X</u> No |
| Remarks: | | | | | | | | |
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| Anvestigator(s): J. Greaves, C. Scrivner Section, Township, Range: .a.andform (hillside, terrace, etc.): Swale Local relief (concave, convex, none): Concave Slope %: 5 Subregion (LRR or MLRA): LRR R Lat: 43-35-38.20N Long: 73-26-7.75W Datum: WGS 84 Soil Map Unit Name: HLE - Hollis-Charlton association, moderately steep and steep NWI classification: PEM1 Are climatic / hydrologic conditions on the site typical for this time of year? Yes _X No (ff no, explain in Remarks.) Are Vegetation | Project/Site: CHPE | | City/County: Dresden / Washington | Sampling Date: 10/19/21 |
|---|---|-----------------------------------|--|-----------------------------|
| newsigator(s): j_Greaves, C. Scrivner | Applicant/Owner: TDI | | State: NY | Sampling Point: WET CGGG-1A |
| andform (hillside, terrace, etc.); Swale Local relief (concave; convex, none); Concave Slope %; 5 Solar begin (LRR or MLRA); LRR R Lat: 43-53-33.20N Long; 73-26-7.75W Datum; WGS 84 Solar begin (LRR or MLRA); LRR R Lat: 43-53-33.20N Long; 73-26-7.75W Datum; WGS 84 Solar begin (LRR or MLRA); LRR R is infificantly disturbed? Are "Normal Circumstances" present? Yes X No | | | Section, Township, Range: | |
| Subregion (LRR or MLRA): LRR Lat: 43-35-38.20N Long: 73-26-7.75W Datum: WGS 84 Soid Map Unit Name: HLE - Hollis-Charlton association, moderately steep and steep NWI classification: PEM1 tee climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) ver Vegetation | | Local re | | Slope %: 5 |
| Sol Map Unit Name: HLE - Holls-Chartton association, moderately steep and steep NWI classification: PEM1 ve climatic / hydrologic conditions on the site typical for this time of year? Yes X No(fr.o, explain in Remarks.) ve Vegetation | | | | |
| we climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) we Vegetation | . | | | |
| we VegetationSoil, or Hydrologyinstinuity problematic? Are "Normal Circumstances" present? Yes | | | | |
| we Vegetation Soil or Hydrologynaturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No Is the Sampled Area within a Wetland? Yes X No Hydrophytic Vegetation Present? Yes X No Is the Sampled Area within a Wetland? Yes X No Remarks: (Explain alternative procedures here or in a separate report.) Prescreption (If yes, optional Wetland Site ID: Near Flag WET CFFF-3A Palustrine Emergent Marsh - linear roadside swale dominated by purple loosestrife Edinger classification: Purple Loosestrife Marsh. PMDROLOGY Wetland Hydrology Indicators: Surface Soil Cracks (B6) Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) X High Water Table (A2) Aquatic Fauna (B13) Mors Trin Lines (B16) Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sectiment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) I'modation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Su | | | | |
| SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophylic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No If yes, optional Wetland Site ID: Near Flag WET CFFF-3A Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh - linear roadside swale dominated by purple loosestrife. Edinger classification: Purple Loosestrife Marsh. Primary Indicators: Secondary Indicators: Secondary Indicators (minimum of one is required: check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) Drainage Patterns (B10) X High Water Table (A2) Aquatic Fauna (B13) Moss Trin Lines (R16) Dry-Season Water Table (C2) Yeader Marks (B1) Hydrogen sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Sturtation Visible on Aerial Imagery (C9) Sedment Deposits (B3) Presence of Reduced Iron (C4) Sturtation Visible on Aerial Imagery (C9) Sturtation Visible on Aerial Imagery (C9) Aqual tor Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X FaC-Neutral Test (D5) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Microtopographic Relief (D4) Agal Mat or Crust (B4) Presence of Reduced Iron (C4) | | | | ent? Yes X No |
| Hydrophytic Vegetation Present? Yes X No Hydric Soli Present? Yes X No Wetland Hydrology Present? Yes X No Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh - linear roadside swale dominated by purple loosestrife Edinger classification: Purple Loosestrife Marsh. Primary Indicators: Secondary Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) X High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Surface Soil Cracks (B8) Drainage Patterns (B10) Vater Marks (B1) Hydrogen Sulfide Odor (C1) Crarkins Burrows (C3) Saturation Visible on Aerial Imagery (C9) Sediment Deposits (B2) Oxidzed Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) If to Deposits (B5) Thin Muck Surface (C7) Xelendor for Clask Sediment Present? Yes X Into Adaptive Present? Yes X No | Are Vegetation, Soil, or Hydrol | ogynaturally problemati | ic? (If needed, explain any answers in | Remarks.) |
| Hydric Soil Present? Yes X No If yes, optional Wetland ? Yes X No Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh - linear roadside swale dominated by purple loosestrife. Edinger classification: Purple Loosestrife Marsh. Hyper Coord Primary Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Soil Cracks (B6) X Hip Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) Mass Trim Lines (B16) X Hip Water (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Staturation (X3) Presence of Reduced Iron (C4) Statued or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) X Shallow Aquitard (D3) Inurdation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5) Field Observations: Wetland Hydrology Present? Yes No Depth (inches): 4 | SUMMARY OF FINDINGS – Attach | site map showing sam | pling point locations, transects, in | nportant features, etc. |
| Hydric Soil Present? Yes X No If yes, optional Wetland ? Yes X No Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh - linear roadside swale dominated by purple loosestrife. Edinger classification: Purple Loosestrife Marsh. Hyper Coord Primary Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Soil Cracks (B6) X Hip Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) Mass Trim Lines (B16) X Hip Water (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Staturation (X3) Presence of Reduced Iron (C4) Statued or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) X Shallow Aquitard (D3) Inurdation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5) Field Observations: Wetland Hydrology Present? Yes No Depth (inches): 4 | Hydrophytic Vegetation Present? | Yes X No | Is the Sampled Area | |
| Wetland Hydrology Present? Yes X No If yes, optional Wetland Site ID: Near Flag WET CFFF-3A Remarks: (Explain alternative procedures here or in a separate report.) Palustrine Emergent Marsh - linear roadside swale dominated by purple loosestrife Edinger classification: Purple Loosestrife Marsh. 1YDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required: check all that apply) Surface Soil Cracks (B6) Drainage Patterns (B10) X High Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) X High Water Table (A2) Aquatic Fauna (B13) More Strin Lines (B16) X Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sufide Odor (C1) Craylish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Orift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Mintager (P14) Sparsely Vegetate | | | • | No |
| Palustrine Emergent Marsh - linear roadside swale dominated by purple loosestrife Edinger classification: Purple Loosestrife Marsh. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) | | Yes X No | | |
| Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) | | | sestrife Edinger classification: Purple Looses | trife Marsh. |
| Primary Indicators (minimum of one is required; check all that apply) | HYDROLOGY | | | |
| Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) X High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) X Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) X Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes X No Depth (inches): 4 Saturation Present? Yes X No Depth (inches): 4 Saturation Present? Yes X No Depth (inches): 4 Saturation Present? Yes X No </td <td>Wetland Hydrology Indicators:</td> <td></td> <td>Secondary Indicators (n</td> <td>ninimum of two required)</td> | Wetland Hydrology Indicators: | | Secondary Indicators (n | ninimum of two required) |
| X High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) X Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) X Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes X No Saturation Present? Yes X No Includes capillary fringe) Depth (inches): 0 Wetland Hydrology Present? Yes X No Saturation Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Des | Primary Indicators (minimum of one is require | d; check all that apply) | Surface Soil Cracks | s (B6) |
| X Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) X Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes X No Depth (inches): 4 Water Table Present? Yes X No Depth (inches): 4 Wetland Hydrology Present? Yes X No Gincludes capillary fringe) Depth (inches): 0 Wetland Hydrology Present? Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Saturationstis available: <t< td=""><td>Surface Water (A1)</td><td>Water-Stained Leaves (B</td><td>9) Drainage Patterns</td><td>(B10)</td></t<> | Surface Water (A1) | Water-Stained Leaves (B | 9) Drainage Patterns | (B10) |
| Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) X Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): 4 Water Table Present? Yes No Depth (inches): 4 Saturation Present? Yes No Depth (inches): 4 Mater Table Present? Yes No Depth (inches): 0 Microtopographic Relief Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Yes X No | X High Water Table (A2) | Aquatic Fauna (B13) | Moss Trim Lines (B | 516) |
| Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) X Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5) Field Observations: Sufface Water Present? Yes Saturation Present? Yes No Depth (inches): Water Table Present? Yes X No Depth (inches): (includes capillary fringe) Depth (inches): 0 Wetland Hydrology Present? Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: If available: Imagery (Pail Algorithm and Pail Algorithm | | | | |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) X Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes Sufface Water Present? Yes No Depth (inches): Water Table Present? Yes X No Depth (inches): Gincludes capillary fringe) Depth (inches): 0 Wetland Hydrology Present? Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: If available: If available: | | | | |
| Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) X Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes Water Table Present? Yes X No Depth (inches): 4 Saturation Present? Yes X No Depth (inches): 0 (includes capillary fringe) Depth (inches): inspections), if available: | | | • · · · <u> </u> | |
| Iron Deposits (B5) Thin Muck Surface (C7) X Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Water Table Present? Yes X No Saturation Present? Yes X No Depth (inches): 4 Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | | |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes X No Depth (inches): 4 Wetland Hydrology Present? Yes X No Saturation Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Image: Content of the stream gauge in | | | | |
| Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): | | | | |
| Field Observations: Surface Water Present? Yes Water Table Present? Yes X No Depth (inches): 4 Saturation Present? Yes X No Depth (inches): 4 Saturation Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes < | | | | |
| Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Mo Depth (inches): 0 Wetland Hydrology Present? Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | <i>>)</i> | | 05) |
| Water Table Present? Yes X No Depth (inches): 4 Saturation Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Wetland Hydrology Present? Yes X No | | No V Depth (inches): | | |
| Saturation Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No (includes capillary fringe) | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | | Yes X No |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | <u> </u> | | <u> </u> |
| | | itoring well, aerial photos, prev | rious inspections), if available: | |
| Remarks: | · | . | . , | |
| | Remarks [.] | | | |
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Sampling Point: WET CGGG-1A

| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|---|---------------------|----------------------|---------------------|--|
| 1 | | | | Number of Dominant Species |
| 2. | | | | That Are OBL, FACW, or FAC:(A) |
| 3 | | | | Total Number of Dominant Species Across All Strata: 1 (B) |
| 5. | | | | 、/ |
| 6. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) |
| 7 | | | | Prevalence Index worksheet: |
| | | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species <u>62</u> x 1 = <u>62</u> |
| 1. <u>Salix nigra</u> | 2 | No | OBL | FACW species <u>15</u> x 2 = <u>30</u> |
| 2 | | | | FAC species <u>5</u> x 3 = <u>15</u> |
| 3 | | | | FACU species x 4 = 80 |
| 4 | | | | UPL species 0 x 5 = 0 |
| 5. | | · | | Column Totals: 102 (A) 187 (B) |
| 6. | | | | Prevalence Index = B/A = 1.83 |
| 7. | | | | Hydrophytic Vegetation Indicators: |
| | 2 | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% |
| 1. Lythrum salicaria | 60 | Yes | OBL | X_3 - Prevalence Index is ≤3.0 ¹ |
| 2. Poa pratensis | 15 | No | FACU | 4 - Morphological Adaptations ¹ (Provide supporting |
| 3. Phalaris arundinacea | 10 | No | FACW | data in Remarks or on a separate sheet) |
| 4. Equisetum arvense | 5 | No | FAC | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. Symphyotrichum novae-angliae | 5 | No | FACW | |
| 6. Tussilago farfara | 5 | No | FACU | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 7. | ~ | | | Definitions of Vegetation Strata: |
| 8. | | | | _ |
| 9. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 10. | | | | |
| 11 | | | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | | · | | Herb – All herbaceous (non-woody) plants, regardless |
| | 100 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | Woody vines – All woody vines greater than 3.28 ft in |
| 1 | | | | height. |
| 2. | | | | |
| 3. | | | | Hydrophytic Vegetation |
| 4. | | | | Vegetation Present? Yes X No |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a separ | | | | |
| Rellians. (include proto numbers here of on a separ | die Sneet. | | | |
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| Profile Desc | ription: (Describe t | to the de | pth needed to docu | ment th | e indica | tor or co | onfirm the absence of | indicators.) |
|------------------------|----------------------------|------------|----------------------|--|-------------------|------------------|-----------------------|--|
| Depth | Matrix | | Redox | x Featur | es | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-5 | 10YR 2/1 | 95 | 7.5YR 4/6 | 5 | С | PL | Mucky Loam/Clay | Prominent redox concentrations |
| 5-13 | N 4/ | 70 | 10YR 5/6 | 20 | С | Μ | Mucky Loam/Clay | Prominent redox concentrations |
| | | | 5YR 4/6 | 10 | С | Μ | | Prominent redox concentrations |
| | | | | | | | | |
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| Hydric Soil I | | etion, RIV | I=Reduced Matrix, M | S=Mask | ed Sand | Grains. | | L=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ : |
| Histosol | | | Polyvalue Belov | w Surfac | ce (S8) (I | LRR R, | | ck (A10) (LRR K, L, MLRA 149B) |
| | ipedon (A2) | | MLRA 149B) | | . , . | - | | airie Redox (A16) (LRR K, L, R) |
| Black His | stic (A3) | | Thin Dark Surfa | ace (S9) | (LRR R | , MLRA 1 | 149B) 5 cm Mu | cky Peat or Peat (S3) (LRR K, L, R) |
| Hydroger | n Sulfide (A4) | | High Chroma S | ands (S | 11) (LRF | R K, L) | Polyvalue | e Below Surface (S8) (LRR K, L) |
| Stratified | Layers (A5) | | Loamy Mucky M | Mineral (| F1) (LR F | R K, L) | Thin Dar | k Surface (S9) (LRR K, L) |
| | Below Dark Surface | e (A11) | X Loamy Gleyed | | | . , | | nganese Masses (F12) (LRR K, L, R) |
| | rk Surface (A12) | . , | Depleted Matrix | | | | | t Floodplain Soils (F19) (MLRA 149B) |
| | ucky Mineral (S1) | | X Redox Dark Su | rface (F | 6) | | | bodic (TA6) (MLRA 144A, 145, 149B) |
| | eyed Matrix (S4) | | Depleted Dark | | | | | ent Material (F21) |
| | edox (S5) | | ? Redox Depress | | | | | allow Dark Surface (F22) |
| | Matrix (S6) | | Marl (F10) (LR | • | , | | | xplain in Remarks) |
| Dark Sur | . , | | | ((((((((((((((((((((| | | | Aprain in reemanoy |
| _ | | | | | | | | |
| | | on and w | etland hydrology mus | st be pre | sent, un | less distu | rbed or problematic. | |
| Restrictive L Type: | ayer (if observed): Roc | | | | | | | |
| Depth (in | | 13 | | | | | Hydric Soil Presen | nt? Yes_X_No |
| | | 13 | | | | | Hydric Soli Fresen | |
| Remarks: | | | | | | | | |
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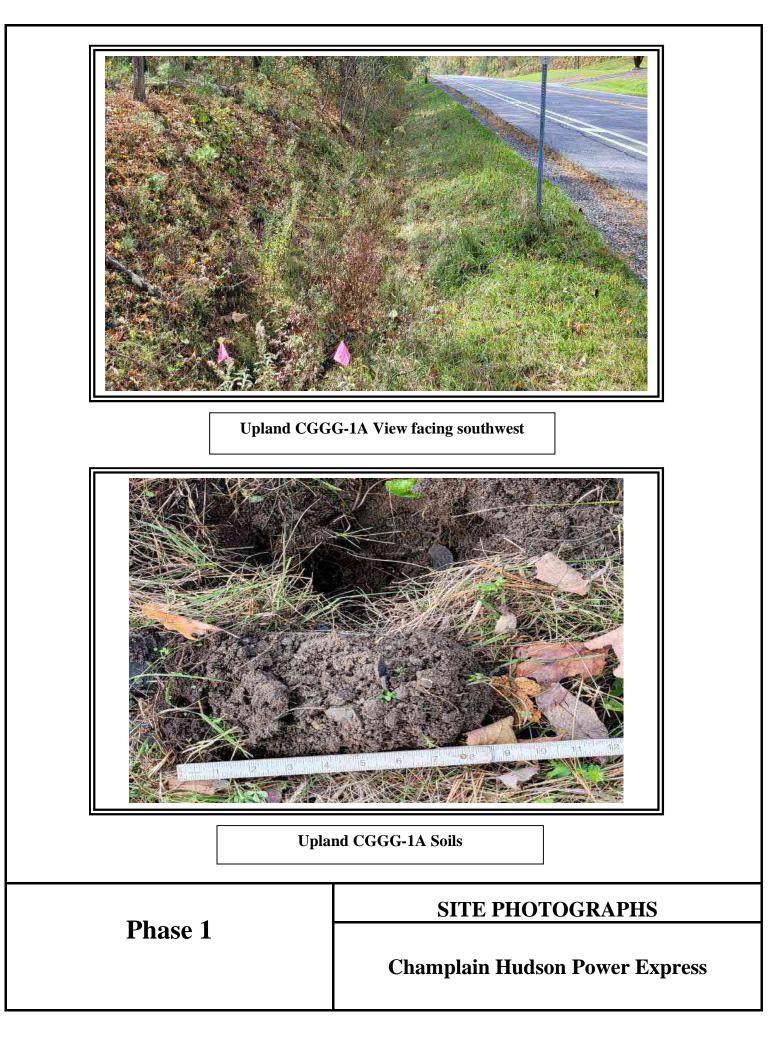
| Project/Site: CHPE | City/County: Dresd | den / Washington Sampling Date: 10/19/2 | 1 | |
|---|--|--|-------|--|
| Applicant/Owner: TDI | | State: NY Sampling Point: UPL CG | €G-1A | |
| Investigator(s): J. Greaves, C. Scrivner | Section, T | ownship, Range: | | |
| Landform (hillside, terrace, etc.): Hillslope | Local relief (concave, conv | vex, none): Convex Slope %: 3 | 0 | |
| Subregion (LRR or MLRA): LRR R | Lat: 43-35-38.25N Long | g: 73-26-7.85W Datum: WGS 8 | 4 | |
| Soil Map Unit Name: HLE - Hollis-Charlton asso | pciation, moderately steep and steep | NWI classification: NA | | |
| Are climatic / hydrologic conditions on the site typi | | | | |
| Are Vegetation , Soil , or Hydrology | | rmal Circumstances" present? Yes X No | | |
| Are Vegetation, Soil, or Hydrology | | ed, explain any answers in Remarks.) | | |
| | | | | |
| SUMMARY OF FINDINGS – Attach sit | e map showing sampling point loc | ations, transects, important features, e | tc. | |
| Hydrophytic Vegetation Present? Ye | es No X Is the Sampled A | Area | | |
| Hydric Soil Present? Ye | | | | |
| Wetland Hydrology Present? Ye | es No X If yes, optional W | | | |
| | | | | |
| HYDROLOGY | | | | |
| Wetland Hydrology Indicators: | | Secondary Indicators (minimum of two required) | | |
| Primary Indicators (minimum of one is required; | check all that apply) | Surface Soil Cracks (B6) | | |
| Surface Water (A1) | Water-Stained Leaves (B9) | Drainage Patterns (B10) | | |
| High Water Table (A2) | Aquatic Fauna (B13) | Moss Trim Lines (B16) | | |
| Saturation (A3) | Marl Deposits (B15) | Dry-Season Water Table (C2) | | |
| Water Marks (B1) | Hydrogen Sulfide Odor (C1) | Crayfish Burrows (C8) | | |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Roots (C3) | Saturation Visible on Aerial Imagery (C9) | | |
| Drift Deposits (B3) | Presence of Reduced Iron (C4) | Stunted or Stressed Plants (D1) | | |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils (C6) | Geomorphic Position (D2) | | |
| Iron Deposits (B5) | Thin Muck Surface (C7) | Shallow Aquitard (D3) | | |
| Inundation Visible on Aerial Imagery (B7) | Other (Explain in Remarks) | Microtopographic Relief (D4) | | |

| Sparsely Vegetated Co | oncave Surfac | e (B8) | | FAC-Neutral Test (D5 |) | |
|-----------------------------|---------------|------------------|----------------------------|----------------------------|-----|-------------|
| Field Observations: | | | | | | |
| Surface Water Present? | Yes | No <u>X</u> | Depth (inches): | | | |
| Water Table Present? | Yes | No X | Depth (inches): | | | |
| Saturation Present? | Yes | No X | Depth (inches): | Wetland Hydrology Present? | Yes | <u>No X</u> |
| (includes capillary fringe) | | | | | | |
| Describe Recorded Data (s | stream gauge, | monitoring well, | aerial photos, previous ir | nspections), if available: | | |
| Remarks: | | | | | | |
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Sampling Point: UPL CGGG-1A

| | Absolute | Dominant | Indicator | Deminent Testandalasi |
|--|-------------|--------------|-----------|---|
| <u>Tree Stratum</u> (Plot size: <u>30'</u>) | % Cover | Species? | Status | Dominance Test worksheet: |
| 1. Quercus rubra | 25 | Yes | FACU | Number of Dominant Species |
| 2. Quercus velutina | 25 | Yes | UPL | That Are OBL, FACW, or FAC: (A) |
| Ostrya virginiana 4. | 10 | No | FACU | Total Number of Dominant Species Across All Strata: 3 (B) |
| 5 | | | | Percent of Dominant Species |
| 6 | | | | That Are OBL, FACW, or FAC: 0.0% (A/B) |
| 7 | | | | Prevalence Index worksheet: |
| | 60 | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species 0 x 1 = 0 |
| 1 | | | | FACW species 0 x 2 = 0 |
| 2 | | | | FAC species 0 x 3 = 0 |
| 3 | | | | FACU species <u>125</u> x 4 = <u>500</u> |
| 4 | | | | UPL species 50 x 5 = 250 |
| 5 | | | | Column Totals: <u>175</u> (A) <u>750</u> (B) |
| 6 | | | | Prevalence Index = B/A = 4.29 |
| 7 | | | | Hydrophytic Vegetation Indicators: |
| | | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | 2 - Dominance Test is >50% |
| 1. Poa pratensis | 65 | Yes | FACU | 3 - Prevalence Index is ≤3.0 ¹ |
| 2. Daucus carota | 15 | No | UPL | 4 - Morphological Adaptations ¹ (Provide supporting |
| 3. Cichorium intybus | 10 | No | FACU | data in Remarks or on a separate sheet) |
| 4. Lotus corniculatus | 10 | No | FACU | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. Rubia peregrina | 10 | No | UPL | ¹ Indicators of hydric soil and wetland hydrology must be |
| 6. Trifolium pratense | 5 | No | FACU | present, unless disturbed or problematic. |
| 7 | | | | Definitions of Vegetation Strata: |
| 8. | | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter |
| 9 | | | | at breast height (DBH), regardless of height. |
| 10 | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | | | | Herb – All herbaceous (non-woody) plants, regardless |
| | 115 | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 30') | | | | Woody vines – All woody vines greater than 3.28 ft in |
| 1 | | | | height. |
| 2. | | | | |
| 3. | | | | Hydrophytic Vegetation |
| 4. | | | | Present? Yes No X |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a separ | ate sheet.) | | | |
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| Profile Desc | ription: (Describe | to the dep | th needed to docu | ment th | e indica | tor or co | nfirm the absence of indicators.) | |
|---------------|----------------------|----------------|-----------------------|---------------|--------------------|------------------|---|-------------|
| Depth | Matrix | | Redo | x Featur | es | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture Re | emarks |
| 0-2 | 10YR 2/1 | 100 | | | | | Sandy | |
| 2-9 | 10YR 4/2 | 100 | | | | | Sandy | |
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| 1 | | | | <u> </u> | | | 21 | |
| Hydric Soil I | oncentration, D=Depl | etion, RM= | =Reduced Matrix, M | S=Mask | ed Sand | Grains. | ² Location: PL=Pore Lining, M: Indicators for Problematic H | |
| Histosol | | | Polyvalue Belo | w Surfa | ce (S8) (I | .RR R. | 2 cm Muck (A10) (LRR K | - |
| | vipedon (A2) | | MLRA 149B | | | , | Coast Prairie Redox (A16 | |
| Black His | | | Thin Dark Surfa | , ace (S9) | (LRR R | MLRA 1 | | |
| | n Sulfide (A4) | | High Chroma S | | | | Polyvalue Below Surface | |
| | Layers (A5) | | Loamy Mucky I | | | | Thin Dark Surface (S9) (L | |
| | Below Dark Surface | e (A11) | Loamy Gleyed | | | , _, | Iron-Manganese Masses | |
| | irk Surface (A12) | () | Depleted Matrix | | _, | | Piedmont Floodplain Soils | |
| | lucky Mineral (S1) | | Redox Dark Su | . , | 6) | | Mesic Spodic (TA6) (MLR | . , . , |
| | leyed Matrix (S4) | | Depleted Dark | | | | Red Parent Material (F21) | |
| | edox (S5) | | Redox Depress | | | | Very Shallow Dark Surfac | |
| | Matrix (S6) | | Marl (F10) (LR | | 5) | | Other (Explain in Remarks | |
| | face (S7) | | (11211) (1112) (1112) | , _, | | | | -, |
| | | | | | | | | |
| | hydrophytic vegetat | ion and we | tland hydrology mus | st be pre | esent, unl | ess distu | rbed or problematic. | |
| | ayer (if observed): | alı | | | | | | |
| Type: | Roo | <u>ск</u> 9 | | | | | Undria Cail Presento Vez | |
| | nches): | 9 | | | | | Hydric Soil Present? Yes | <u>No X</u> |
| Remarks: | | | | | | | | |
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| Project/Site: CHPE - Route 22 - Whitehall Section | City/County: Washington Sampling Date: 10/08/21 |
|---|--|
| Applicant/Owner: CHPE | State: NY Sampling Point: G-R-Wet |
| Investigator(s): KW, KS | Section, Township, Range: Whitehall |
| Landform (hillside, terrace, etc.): Toeslope | Local relief (concave, convex, none): Concave Slope %: 0 |
| Subregion (LRR or MLRA): LRR R, MLRA 142 Lat: 43°,38 | ',27.40"N Long: 73°,26',15.88"W Datum: |
| Soil Map Unit Name: Rock outcrop/Hollis | NWI classification: PFO |
| Are climatic / hydrologic conditions on the site typical for this tim | e of year? Yes X No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignifi | cantly disturbed? Are "Normal Circumstances" present? Yes X No |
| Are Vegetation, Soil, or Hydrology natura | Ily problematic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map show | ving sampling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes X No |
| Wetland Hydrology Present? Yes X No | If yes, optional Wetland Site ID: |
| Remarks: (Explain alternative procedures here or in a separate Streamside wetlands associated with G-S-H. | e report.) |
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| | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |

| wenand nyurology mule | 1015. | | | | | | influtti of two required) |
|--|--------------------------|--|---------------------|-------------|-----------------------|------------------------|------------------------------|
| Primary Indicators (minimu | <u>m of one is requi</u> | red; check all | l that apply) | | | Surface Soil Cracks (| B6) |
| Primary Indicators (minimum of one is required; check all that apply) X Surface Water (A1) X Water-Stained Leaves (B9) | | | | | | X Drainage Patterns (B | 10) |
| High Water Table (A2) Aquatic Fauna (B13) | | | | | | Moss Trim Lines (B16 | 5) |
| Saturation (A3) | | Marl D | Deposits (B15) | | | Dry-Season Water Ta | ıble (C2) |
| X Water Marks (B1) | | Hydro | gen Sulfide Odor (C | :1) | Crayfish Burrows (C8 |) | |
| X Sediment Deposits (B2 |) | Oxidiz | ed Rhizospheres or | h Living Re | Saturation Visible on | Aerial Imagery (C9) | |
| Drift Deposits (B3) | | Preser | nce of Reduced Iror | n (C4) | Stunted or Stressed F | Plants (D1) | |
| Algal Mat or Crust (B4) | | Recent Iron Reduction in Tilled Soils (C6) | | | | Geomorphic Position | (D2) |
| Iron Deposits (B5) | | Thin M | /luck Surface (C7) | | | Shallow Aquitard (D3 |) |
| Inundation Visible on A | erial Imagery (B | 7) Other | (Explain in Remark | s) | | Microtopographic Rel | ief (D4) |
| Sparsely Vegetated Co | ncave Surface (l | B8) | | | | X FAC-Neutral Test (D5 | 5) |
| Field Observations: | | | | | | | |
| Surface Water Present? | Yes X | No | Depth (inches): | 1 | | | |
| Water Table Present? | Yes | No X | Depth (inches): | <u> </u> | | | |
| Saturation Present? | Yes | No | Depth (inches): | 2 | Wetlan | d Hydrology Present? | Yes X No |
| (includes capillary fringe) | | | · · · (| | | | ···· <u>···</u> ··· <u>·</u> |
| Describe Recorded Data (s | tream dauge mo | onitoring well | aerial photos prev | ious inspe | ections) if a | available. | |
| (- | | ;g;, | ,, F, F | | ,, | | |
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| Remarks: | | | | | | | |
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Sampling Point: G-R-Wet

| Tree Stratum (Plot size: 30') | % Cover | Species? | Status | Dominance Test worksheet: |
|---|--------------|--------------|--------|---|
| 1. Betula alleghaniensis | 30 | Yes | FAC | |
| 2. Tsuga canadensis | 25 | Yes | FACU | Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A) |
| 3. 4. | | | | Total Number of Dominant Species Across All Strata: <u>4</u> (B) |
| 5. 6. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: |
| 7. | | | | Prevalence Index worksheet: |
| | 55 | =Total Cover | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum (Plot size: 15') | | | | OBL species x 1 = |
| 1 | | | | FACW species x 2 = |
| 2 | | | | FAC species x 3 = |
| 3 | | | | FACU species x 4 = |
| 4 | | | | UPL species x 5 = |
| 5 | | | | Column Totals: (A)(B) |
| 6. | | | | Prevalence Index = B/A = |
| 7. | | | | Hydrophytic Vegetation Indicators: |
| | | =Total Cover | | 1 - Rapid Test for Hydrophytic Vegetation |
| Herb Stratum (Plot size: 5') | | | | X 2 - Dominance Test is >50% |
| 1. Impatiens capensis | 15 | Yes | FACW | 3 - Prevalence Index is ≤3.0 ¹ |
| 2. Bidens frondosa | 10 | Yes | FACW | 4 - Morphological Adaptations ¹ (Provide supporting |
| 3 | | | | data in Remarks or on a separate sheet) |
| 4 | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 5. | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 6. | | | | be present, unless disturbed or problematic. |
| 7. | | | | Definitions of Vegetation Strata: |
| 8 | | | | Tree – Woody plants 3 in. (7.6 cm) or more in |
| 9 | | | | diameter at breast height (DBH), regardless of height. |
| 10 | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 11 | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 12 | 25 | =Total Cover | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| Woody Vine Stratum (Plot size: 15') | | | | Woody vines – All woody vines greater than 3.28 ft in |
| 1 | | | | height. |
| 2 | | | | |
| 3 | | | | Hydrophytic Vegetation |
| 4 | | | | Present? Yes X No |
| | | =Total Cover | | |
| Remarks: (Include photo numbers here or on a sepa | rate sheet.) | | | |
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| Depth Matrix | · | Redox Features | | | | | | |
|---|--------------|--|-----------------|-------------------|------------------|-----------------------|--|--|
| (inches) Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-12 10YR 3/2 | 95 | 10YR 4/6 | 5 | С | М | Loamy/Clayey | Prominent redox concentrations | |
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| ¹ Type: C=Concentration, D=Depletion | on, RM | =Reduced Matrix, N | IS=Mas | ked Sand | l Grains. | | L=Pore Lining, M=Matrix. | |
| Hydric Soil Indicators: | | Daharaha Daha | 0 6 | | | | or Problematic Hydric Soils ³ : | |
| Histosol (A1) | • | Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | | | LKK K, | | ck (A10) (LRR K, L, MLRA 149B) | |
| Histic Epipedon (A2) Black Histic (A3) | | Thin Dark Surfa | | | | | airie Redox (A16) (LRR K, L, R) cky Peat or Peat (S3) (LRR K, L, R) | |
| Hydrogen Sulfide (A4) | • | High Chroma S | | - | | | e Below Surface (S8) (LRR K, L) | |
| Stratified Layers (A5) | • | Loamy Mucky I | | | | | k Surface (S9) (LRR K, L) | |
| Depleted Below Dark Surface (A | <u>(</u> 11) | Loamy Gleyed | | | ,, | | iganese Masses (F12) (LRR K, L, R) | |
| Thick Dark Surface (A12) | , | Depleted Matrix | | , | | | t Floodplain Soils (F19) (MLRA 1498 | |
| Sandy Mucky Mineral (S1) | • | X Redox Dark Su | | 6) | | | oodic (TA6) (MLRA 144A, 145, 149B | |
| Sandy Gleyed Matrix (S4) | | Depleted Dark | Surface | (F7) | | Red Pare | ent Material (F21) | |
| Sandy Redox (S5) | | ? Redox Depress | sions (F | 8) | | Very Sha | allow Dark Surface (F22) | |
| Stripped Matrix (S6) | - | Marl (F10) (LR | R K, L) | | | Other (E | xplain in Remarks) | |
| Dark Surface (S7) | | | | | | | | |
| 2 | | | | | | | | |
| ³ Indicators of hydrophytic vegetation | and we | etland hydrology mu | ist be pr | resent, ur | iless dist | urbed or problematic. | | |
| Restrictive Layer (if observed): Type: | | | | | | | | |
| Lype. | | | | | | | | |
| Depth (inches): | | | | | | Hydric Soil Preser | | |