| WETLAI | ND DETERMINATION | DATA FORM - North Ce | entral and Northeast Regio | on | | |
|--|--|--|------------------------------|--|--|--|
| Project/Site: SPP | | | | Sampling Date: 2016-08-29 | | |
| Applicant/Owner: Enbridge | | State: Minnesota | a Samp | ling Point: <u>u-47n22w11-ad1</u> | | |
| Investigator(s): DPT, MGH | Section, | Township, Range: S11, T47 | 7N, R22W | | | |
| Landform (hillslope, terrace, etc.): Rise | | Local Relief (conc | ave, convex, none): VL | Slope (%): 3-7% | | |
| Subregion (LRR or MLRA): | Lat | itude: 46.5646698559 | Longitude: -93.08442243 | Datum: NAD83 | | |
| Soil Map Unit Name: 736 | | | NWI | Classification: N/A | | |
| Are climatic/hydrologic conditions on the | site typical for this tim | e of year? (if no, explain in | Remarks): | No | | |
| Are Vegetation <u>No</u> , Soil <u>No</u> , or Hyd | rology <u>No</u> significant | ly disturbed? Are "Normal | Circumstances" present? Ye | <u>s</u> | | |
| Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydro | logy <u>No</u> naturally pro | oblematic? (If needed, exp | plain any answers in Remarks |) | | |
| SUMMARY OF FINDINGS - Attach site | map showing sampling | point locations, transects | , important features, etc. | | | |
| Hydrophytic Vegetation Present? | No | Is the Sampled A | rea | | | |
| Hydric Soil Present? | No | within a Wetland | within a Wetland? No | | | |
| Wetland Hydrology Present? | No | If yes, optional W | etland Site ID: | | | |
| HYDROLOGY | | | | | | |
| Wetland Hydrology Indicators: | | | Secondary Indi | cators (minimum of two required) | | |
| | | | | | | |
| | mary Indicators (minimum of one is required; check all that apply) | | | Surface Soil Cracks (B6) Drainage Patterns (B10) | | |
| Surface Water (A1) High Water Table (A2) | | Water-Stained Leaves (B9) 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) | | hizospheres on Living Roots (C3 |)Saturatio | Saturation Visible on Aerial Imagery (C9) | | |
| Drift Deposits (B3) | Presence of | Presence of Reduced Iron (C4) | | Stunted/Stressed Plants (D1) | | |
| Algal Mat or Crust (B4) | Recent Iro | n Reduction in Tilled Soils (C6) | Geomorg | Geomorphic Position (D2) | | |
| Iron Deposits (B5) | Thin Muck | Surface (C7) | Shallow / | Shallow Aquitard (D3) | | |
| Inundation Visible on Aerial Imagery (B7) | e on Aerial Imagery (B7) Other (Explain in Remarks) | | Microtop | Microtopographic Relief (D4) | | |
| Sparsely Vegetated Concave Surface (B8) | | | FAC-Neu | tral Test (D5) | | |
| Field Observations: | | | | | | |
| Surface Water Present? | | (inches) | | | | |
| Water Table Present? | | (inches) | | | | |
| Saturation Present? | <u>No</u> Depth | (inches) | Wetland Hydrology | Present? <u>No</u> | | |

(includes capillary fringe)

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

Remarks:

No digging, could not verify water table.

US Army Corps of Engineers

VEGETATION - Use scientific names of plants.

Sampling Point: u-47n22w...

| | Absolute | Dominant | Indicator | Dominance Test worksheet: | |
|---|----------|---------------|-----------|---|--|
| Tree Stratum (Plot Size: 30) | % Cover | Species? | Status | Number of Dominant Species | |
| 1. | | | | That Are OBL, FACW, or FAC: 0 (A) | |
| 2. | | | | Total Number of Dominant | |
| 3 | | | | Species Across All Strata: 3 (B) | |
| 4. | | | | Percent of Dominant Species | |
| 5 | | | | That Are OBL, FACW, or FAC: 0 (A/B) | |
| 6 | | | | Prevalence Index worksheet: | |
| 7 | | | | Total % Cover of: Multiply by: | |
| | 0 | = Total Cover | | OBL species 0.00 x 1 0 | |
| Sapling/Shrub Stratum (Plot Size: 15) | | | | FACW species 0.00 x 2 0 | |
| 1 | | | | FACU species 90.00 x 3 360 | |
| 2 | | | | UPL species 0.00 x 4 0 | |
| 3. | | | | Column Totals 100 (A) 390 (B) | |
| 4. | | · | · | Prevalence Index = $B/A = 3.9$ | |
| * | | | | | |
| | | · | · | Hydrophytic Vegetation Indicators: | |
| 6 | | | | 1 - Rapid Test for Hydrophytic Vegetation | |
| 7 | | | | $\frac{no}{2}$ - Dominance Test is > 50% | |
| | 0 | = Total Cover | | no 3 - Prevalence Index is $\leq 3.0^1$ | |
| Herb Stratum (Plot Size: 5) | 20.00 | N. | 54.011 | 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) | |
| 1. Pteridium aquilinum | 20.00 | Yes | FACU | | |
| 2. Phleum pratense | 20.00 | Yes | FACU | Problematic Hydrophytic Vegetation ¹ (Explain) | |
| 3. Poa pratensis | 20.00 | Yes | FACU | ¹ Indicators of hydric soil and wetland hydrology must be present, unless | |
| 4. Trifolium repens | 15.00 | No | FACU | disturbed or problematic. | |
| 5. Plantago major | 10.00 | No | FAC | Definitions of Vegetation Strata: | |
| 6. Trifolium pratense | 10.00 | No | FACU | | |
| 7. Rubus idaeus | 5.00 | No | FACU | Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height. | |
| 8 | | | | | |
| 9 | | | | Sapling/Shrub - Woody plants less than 3 in. DBH and greater than | |
| 10 | | | | or equal to 3.28 ft (1 m) tall. | |
| 11 | | | | Herb - All herbaeceous (non-woody) plants, regardless of size, and | |
| 12 | | | | woody plants less than 3.28 ft tall. | |
| | 100 | = Total Cover | | Woody vines - All woody vines greater than 3.28 ft in height. | |
| Woody Vine Stratum (Plot Size: 30) | | | | ······, ······························ | |
| 1. | | | | | |
| | | | | Hydrophytic | |
| 2 | | | | Vegetation | |
| 3 | | | | Present? <u>No</u> | |
| 4 | | - · - | | 4 | |
| | 0 | =Total Cover | | | |
| Remarks: (include photo numbers here or on a separate sheet | .) | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

US Army Corps of Engineers

Northcentral and Northeast Region – Version 2.0

SOIL

| Sampling Point: | u-47n22w |
|-----------------|----------|
|-----------------|----------|

| Depth Matrix | | Redox F | eatures | | | | | |
|---|---------------|---|--------------------|--|------------------|---|--|--|
| (inches) Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| | | | | | | | | |
| | | | | | | | | |
| | · | | | | | | | |
| | = | | | | | | | |
| Type: C=Concentration, D=Depletion, RM=R | educed Matr | rix, MS=Masked Sand Grai | ins. | | | | ² Location: PL=Pore Lining, M=Mat | |
| Hydric Soil Indicators: | | | ()(0) | | | Indicators for Pro | blematic Hydric Soil ³ : | |
| Histosol (A1) | | Polyvalue Below St 149B) | urtace (S8 |) (LRR R, | MLKA | 2 cm Muck (/ | A10) (LRR K, L, MLRA 149B) | |
| Histic Epipedon (A2) | | Thin Dark Surface | (S9) (LRR | R, MLRA | 149B) | Coast Prairie | Redox (A16)(LRR K, L, R) | |
| Black Histic (A3) | | Loamy Mucky Min | eral (F1) (| LRR K, L) | | 5 cm Mucky | Peat or Peat (S3) (LRR K, L, R) | |
| Hydrogen Sulfide (A4) | | Loamy Gleyed Matrix (F2) Depleted Matrix (F3) | | | | Dark Surface (S7) (LRR K, M) Polyvalue Below Surface (S8) (LRR K, L) | | |
| Stratified Layers (A5) | | | | | | | | |
| Depleted Below Dark Surface (A11) | | Redox Dark Surface | e (F6) | | | Thin Dark Sur | face (S9) (LRR K, L) | |
| Thick Dark Surface (A12) | | Depleted Dark Surface (F7) | | Iron-Maganese Masses (F12) (LRR K, L, R) | | | | |
| Sandy Mucky Mineral (S1) | | Redox Depressions | s (F8) | | | Piedmont Flo | odplain Soils (F19) (MLRA 149B) | |
| Sandy Gleyed Matrix (S4) | | | | | | Mesic Spodic | (TA6) (MLRA 144A, 145, 149B) | |
| Sandy Redox (S5) | | | | | | Red Parent N | Naterial (F21) | |
| Stripped Matrix (S6) | | | | | | _ | v Dark Surface (TF12) | |
| Dark Surface (S7) (LRR R, MLRA 149B) | | | | | | Other (explai | in in remarks) | |
| Restrictive Layer (if observed): | | | | | | | | |
| Туре: | | | | | н | ydric Soil Present? <u>No</u> | 0 | |
| Depth (inches): | | | | | | | | |
| Remarks: | | | | I | | | | |
| No digging, soils assumed non-hydric based of | on vegetation | n and hydrology. | | | | | | |

Site Photograph 1



Latitude: 46.5647465084182

Longitude: -93.0843767524632

Direction: North

Remarks: Upland Cowardin Classification:

Circular 39:

Eggers & Reed:

Site Photograph 2



Latitude: 46.5646608453678

Longitude: -93.0844624155137

Direction: South

Remarks: Upland Cowardin Classification:

Circular 39:

Eggers & Reed: