

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Carlton Sampling Date: 5/30/2014
 Applicant/Owner: Enbridge State: MN Sampling Point: CRC5128a2W
 Investigator(s): LEB/CPF Section, Township, Range: _____
 Landform (hillslope, terrace, etc.) Depression Local relief (concave, convex, none) CC
 Slope (%): 0 - 2% Lat.: 46.59553 Long.: -92.574711 Datum: _____
 Soil Map Unit Name: 21C NWI Classification: _____
 Are climatic/hydrologic conditions of the site typical for this time of the year? (If no, explain in remarks)
 Are vegetation , soil , or hydrology significantly disturbed? Are "normal
 Are vegetation , soil , or hydrology naturally problematic? circumstances" present?
 (If needed, explain any answers in remarks)

SUMMARY OF FINDINGS

| | |
|--|--|
| Hydrophytic vegetation present? <u>Y</u> Hydric soil present? <u>Y</u> Indicators of wetland hydrology present? <u>Y</u> | Is the sampled area within a wetland? <u>Y</u> If yes, optional wetland site ID: _____ |
| Remarks: (Explain alternative procedures here or in a separate report.) The wetland is a cedar swamp draining under I-35. | |

HYDROLOGY

| | |
|---|---|
| Primary Indicators (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on <input type="checkbox"/> Drift Deposits (B3) Living Roots (C3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Recent Iron Reduction in Tilled <input type="checkbox"/> Inundation Visible on Aerial Soils (C6) Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Sparsely Vegetated Concave <input type="checkbox"/> Other (Explain in Remarks) Surface (B8) | Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5) |
| Field Observations: Surface water present? Yes <input type="checkbox"/> Depth (inches): _____ Water table present? Yes <input type="checkbox"/> Depth (inches): _____ Saturation present? Yes <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe) | Indicators of wetland hydrology present? <u>Y</u> |
| Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | |
| Remarks: Surface water was observed between moss hummocks throughout the wetland at the time of survey. | |

VEGETATION - Use scientific names of plants

Sampling Point:

CRC5128a2W

| Tree Stratum | | | | Plot Size (30 ft) | | Absolute % Cover | Dominant Species | Indicator Status |
|--------------|---------------------------|--|----|---------------------|------|------------------|------------------|------------------|
| 1 | <i>Thuja occidentalis</i> | | 75 | Y | FACW | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| | | | 75 | = Total Cover | | | | |

| Sapling/Shrub Stratum | | | | Plot Size (15 ft) | | Absolute % Cover | Dominant Species | Indicator Status |
|-----------------------|----------------------------|--|----|---------------------|------|------------------|------------------|------------------|
| 1 | <i>Populus balsamifera</i> | | 10 | Y | FACW | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| | | | 10 | = Total Cover | | | | |

| Herb Stratum | | | | Plot Size (5 ft) | | Absolute % Cover | Dominant Species | Indicator Status |
|--------------|--------------------------|--|----|--------------------|------|------------------|------------------|------------------|
| 1 | <i>Rubus pubescens</i> | | 10 | Y | FACW | | | |
| 2 | <i>Equisetum arvense</i> | | 5 | Y | FAC | | | |
| 3 | <i>Galium triflorum</i> | | 5 | Y | FACU | | | |
| 4 | <i>Acer rubrum</i> | | 5 | Y | FAC | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| | | | 25 | = Total Cover | | | | |

| Woody Vine Stratum | | | | Plot Size (30 ft) | | Absolute % Cover | Dominant Species | Indicator Status |
|--------------------|--|--|---|---------------------|--|------------------|------------------|------------------|
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| | | | 0 | = Total Cover | | | | |

50/20 Thresholds

| | | |
|-----------------------|-----|-----|
| | 20% | 50% |
| Tree Stratum | 15 | 38 |
| Sapling/Shrub Stratum | 2 | 5 |
| Herb Stratum | 5 | 13 |
| Woody Vine Stratum | 0 | 0 |

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across all Strata: 6 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 83.33% (A/B)

Prevalence Index Worksheet

Total % Cover of:

| | | |
|--------------------------|-----------------|----------------|
| OBL species | <u>0</u> x 1 = | <u>0</u> |
| FACW species | <u>95</u> x 2 = | <u>190</u> |
| FAC species | <u>10</u> x 3 = | <u>30</u> |
| FACU species | <u>5</u> x 4 = | <u>20</u> |
| UPL species | <u>0</u> x 5 = | <u>0</u> |
| Column totals | <u>110</u> (A) | <u>240</u> (B) |
| Prevalence Index = B/A = | <u>2.18</u> | |

Hydrophytic Vegetation Indicators:

Rapid test for hydrophytic vegetation

Dominance test is >50%

Prevalence index is ≤3.0*

Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)

Problematic hydrophytic vegetation* (explain)

*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Definitions of Vegetation Strata:

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

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

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

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

Hydrophytic vegetation present? Y

Remarks: (Include photo numbers here or on a separate sheet)
 The wetland is dominated by white cedar. Moss hummocks are present.

