

**WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region**

Project/Site: SPP City/County: Clearwater Sampling Date: 5/28/2014  
 Applicant/Owner: Enbridge State: MN Sampling Point: CLC5013c2W  
 Investigator(s): EAB/RAJ Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): CL  
 Slope (%): 0 - 2% Lat.: 47.6339498 Long.: -95.3983315 Datum: \_\_\_\_\_  
 Soil Map Unit Name: 718C NWI Classification: PEMC  
 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><br>Hydric soil present? <u>Y</u><br>Indicators of wetland hydrology present? <u>Y</u>  | <b>Is the sampled area within a wetland?</b> <u>Y</u><br><br>If yes, optional wetland site ID: _____ |
| Remarks: (Explain alternative procedures here or in a separate report.)<br>The wetland lies at the base of a slope that drops into a channel just east of the corridor. The wetland consists of a scrub-shrub community dominated by willows. |  |

**HYDROLOGY**

|   |   |
|---|---|
| Primary Indicators (minimum of one is required; check all that apply)<br><input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9)<br><input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13)<br><input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15)<br><input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1)<br><input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)<br><input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4)<br><input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)<br><input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7)<br><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks)<br><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | Secondary Indicators (minimum of two required)<br><input type="checkbox"/> Surface Soil Cracks (B6)<br><input type="checkbox"/> Drainage Patterns (B10)<br><input type="checkbox"/> Moss Trim Lines (B16)<br><input type="checkbox"/> Dry-Season Water Table (C2)<br><input type="checkbox"/> Crayfish Burrows (C8)<br><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)<br><input type="checkbox"/> Stunted or Stressed Plants (D1)<br><input checked="" type="checkbox"/> Geomorphic Position (D2)<br><input type="checkbox"/> Shallow Aquitard (D3)<br><input type="checkbox"/> Microtopographic Relief (D4)<br><input checked="" type="checkbox"/> FAC-Neutral Test (D5) |
| Field Observations:<br>Surface water present? Yes <input type="checkbox"/> Depth (inches): _____<br>Water table present? Yes <input checked="" type="checkbox"/> Depth (inches): <u>10</u><br>Saturation present? Yes <input checked="" type="checkbox"/> Depth (inches): <u>8</u><br>(includes capillary fringe)   | <b>Indicators of wetland hydrology present?</b> <u>Y</u>  |
| Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  |   |
| Remarks:<br>The site features a high water table and saturated soils.   |   |

**VEGETATION - Use scientific names of plants**

**Sampling Point:**

CLC5013c2W

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

| Sapling/Shrub Stratum | Plot Size ( 15 ft )        | Absolute % Cover | Dominant Species | Indicator Status |
|-----------------------|----------------------------|------------------|------------------|------------------|
| 1                     | <i>Salix petiolaris</i>    | 40               | Y                | FACW             |
| 2                     | <i>Salix discolor</i>      | 40               | Y                | FACW             |
| 3                     | <i>Populus balsamifera</i> | 15               | N                | FACW             |
| 4                     |                            |                  |                  |                  |
| 5                     |                            |                  |                  |                  |
| 6                     |                            |                  |                  |                  |
| 7                     |                            |                  |                  |                  |
| 8                     |                            |                  |                  |                  |
| 9                     |                            |                  |                  |                  |
| 10                    |                            |                  |                  |                  |
|                       |                            | 95 = Total Cover |                  |                  |

| Herb Stratum | Plot Size ( 5 ft )        | Absolute % Cover  | Dominant Species | Indicator Status |
|--------------|---------------------------|-------------------|------------------|------------------|
| 1            | <i>Poa pratensis</i>      | 40                | Y                | FACU             |
| 2            | <i>Cinna latifolia</i>    | 20                | Y                | FACW             |
| 3            | <i>Cornus alba</i>        | 15                | N                | FACW             |
| 4            | <i>Ribes americanum</i>   | 10                | N                | FACW             |
| 5            | <i>Salix petiolaris</i>   | 10                | N                | FACW             |
| 6            | <i>Carex blanda</i>       | 5                 | N                | FAC              |
| 7            | <i>Anemone canadensis</i> | 5                 | N                | FACW             |
| 8            | <i>Cicuta maculata</i>    | 5                 | N                | OBL              |
| 9            |                           |                   |                  |                  |
| 10           |                           |                   |                  |                  |
| 11           |                           |                   |                  |                  |
| 12           |                           |                   |                  |                  |
| 13           |                           |                   |                  |                  |
| 14           |                           |                   |                  |                  |
| 15           |                           |                   |                  |                  |
|              |                           | 110 = 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**

|                       |     |     |
|-----------------------|-----|-----|
| Tree Stratum          | 20% | 50% |
| Sapling/Shrub Stratum | 2   | 5   |
| Herb Stratum          | 19  | 48  |
| Woody Vine Stratum    | 22  | 55  |
|                       | 0   | 0   |

**Dominance Test Worksheet**

Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across all Strata: 5 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 80.00% (A/B)

**Prevalence Index Worksheet**

Total % Cover of:

|                          |                               |
|--------------------------|-------------------------------|
| OBL species              | <u>5</u> x 1 = <u>5</u>       |
| FACW species             | <u>165</u> x 2 = <u>330</u>   |
| FAC species              | <u>5</u> x 3 = <u>15</u>      |
| FACU species             | <u>40</u> x 4 = <u>160</u>    |
| UPL species              | <u>0</u> x 5 = <u>0</u>       |
| Column totals            | <u>215</u> (A) <u>510</u> (B) |
| Prevalence Index = B/A = | <u>2.37</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 shrub layer is dominated by pussy willow and meadow willow; the herb layer is dominated by Kentucky blue grass.

