

## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Cass Sampling Date: 9/19/2014  
 Applicant/Owner: Enbridge State: MN Sampling Point: CAC5001\_500a5U  
 Investigator(s): BEH/NTT Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Crest Local relief (concave, convex, none) VL  
 Slope (%): 3 - 7% Lat.: 46.79072032 Long.: -94.7867451 Datum: \_\_\_\_\_  
 Soil Map Unit Name: 1943 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>N</u><br>Hydric soil present? <u>N</u><br>Indicators of wetland hydrology present? <u>N</u>                                      | <b>Is the sampled area within a wetland?</b> <u>N</u><br><br>If yes, optional wetland site ID: _____ |
| Remarks: (Explain alternative procedures here or in a separate report.)<br>Upland island of fire-dependent forest surrounded by forested wetland and shallow marsh. |                                                                                                      |

### HYDROLOGY

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
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| <b>Primary Indicators</b> (minimum of one is required; check all that apply)                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Secondary Indicators</b> (minimum of two required)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| <input type="checkbox"/> Surface Water (A1)<br><input type="checkbox"/> High Water Table (A2)<br><input type="checkbox"/> Saturation (A3)<br><input type="checkbox"/> Water Marks (B1)<br><input type="checkbox"/> Sediment Deposits (B2)<br><input type="checkbox"/> Drift Deposits (B3)<br><input type="checkbox"/> Algal Mat or Crust (B4)<br><input type="checkbox"/> Iron Deposits (B5)<br><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)<br><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <input type="checkbox"/> Water-Stained Leaves (B9)<br><input type="checkbox"/> Aquatic Fauna (B13)<br><input type="checkbox"/> Marl Deposits (B15)<br><input type="checkbox"/> Hydrogen Sulfide Odor (C1)<br><input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)<br><input type="checkbox"/> Presence of Reduced Iron (C4)<br><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)<br><input type="checkbox"/> Thin Muck Surface (C7)<br><input type="checkbox"/> Other (Explain in Remarks) | <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 type="checkbox"/> Geomorphic Position (D2)<br><input type="checkbox"/> Shallow Aquitard (D3)<br><input type="checkbox"/> Microtopographic Relief (D4)<br><input type="checkbox"/> FAC-Neutral Test (D5) |  |
| <b>Field Observations:</b><br>Surface water present? Yes <input type="checkbox"/> Depth (inches): _____<br>Water table present? Yes <input type="checkbox"/> Depth (inches): _____<br>Saturation present? Yes <input type="checkbox"/> Depth (inches): _____<br>(includes capillary fringe)                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Indicators of wetland hydrology present?</b> <u>N</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| Remarks:<br>No primary or secondary hydrological indicators were observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |