

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP City/County: Carlton Sampling Date: 2015-06-27
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: CR162h1U
 Investigator(s): ACM/LEB Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Rise Local Relief (concave, convex, none): Conve... Slope (%): 0-2
 Subregion (LRR or MLRA): _____ Latitude: 46.357788 Longitude: -92.178498 Datum: Minnesota State ...
 Soil Map Unit Name: 303 NWI Classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks): Yes
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes
 Are Vegetation No, Soil No, or Hydrology No 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?	<u>No</u>	Is the Sampled Area within a Wetland?	<u>No</u>
Hydric Soil Present?	<u>No</u>		
Wetland Hydrology Present?	<u>No</u>		
Remarks: (Explain alternative procedures here or in a separate report.) The upland sample point is located on a bermed up area at the edge of an aspen forest and a hayfield.			

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
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 Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<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/Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations: Surface Water Present? <u>No</u> Depth (inches) _____ Water Table Present? <u>No</u> Depth (inches) _____ Saturation Present? <u>No</u> Depth (inches) _____ (includes capillary fringe)	Wetland Hydrology Present? <u>No</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 No indicators of wetland hydrology were observed.

VEGETATION - Use scientific names of plants.

Sampling Point: CR162h1U

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot Size: <u>30 ft</u>)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3333333333...</u> (A/B)
1. <u>Populus tremuloides</u>	<u>30.00</u>	<u>Yes</u>	<u>FACU</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot Size: <u>15 ft</u>)				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species <u>0.00</u> x 1 <u>0</u> FACW species <u>35.00</u> x 2 <u>70</u> FACU species <u>10.00</u> x 3 <u>580</u> UPL species <u>15.00</u> x 4 <u>75</u> Column Totals <u>205</u> (A) <u>755</u> (B) Prevalence Index = B/A = <u>3.68292</u>
1. <u>Populus tremuloides</u>	<u>30.00</u>	<u>Yes</u>	<u>FACU</u>	
2. <u>Cornus alba</u>	<u>20.00</u>	<u>Yes</u>	<u>FACW</u>	
3. <u>Rhamnus cathartica</u>	<u>10.00</u>	<u>No</u>	<u>FAC</u>	
4. <u>Salix discolor</u>	<u>5.00</u>	<u>No</u>	<u>FACW</u>	
5. <u>Ilex verticillata</u>	<u>5.00</u>	<u>No</u>	<u>FACW</u>	
6. <u>Viburnum rafinesquianum</u>	<u>5.00</u>	<u>No</u>	_____	
7. <u>Fraxinus nigra</u>	<u>5.00</u>	<u>No</u>	<u>FACW</u>	
_____ = Total Cover				
Herb Stratum (Plot Size: <u>5 ft</u>)				Hydrophytic Vegetation Indicators: _____ 1 - Rapid Test for Hydrophytic Vegetation no _____ 2 - Dominance Test is > 50% no _____ 3 - Prevalence Index is ≤ 3.0 ¹ _____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Pteridium aquilinum</u>	<u>50.00</u>	<u>Yes</u>	<u>FACU</u>	
2. <u>Trifolium repens</u>	<u>15.00</u>	<u>No</u>	<u>FACU</u>	
3. <u>Eurybia macrophylla</u>	<u>10.00</u>	<u>No</u>	<u>UPL</u>	
4. <u>Asclepias syriaca</u>	<u>5.00</u>	<u>No</u>	<u>UPL</u>	
5. <u>Rosa acicularis</u>	<u>5.00</u>	<u>No</u>	<u>FACU</u>	
6. <u>Vicia americana</u>	<u>5.00</u>	<u>No</u>	<u>FACU</u>	
7. <u>Valeriana officinalis</u>	<u>5.00</u>	<u>No</u>	_____	
8. <u>Sanicula marilandica</u>	<u>5.00</u>	<u>No</u>	<u>FACU</u>	
9. <u>Sonchus arvensis</u>	<u>5.00</u>	<u>No</u>	<u>FACU</u>	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
_____ = Total Cover				
Woody Vine Stratum (Plot Size: _____)				Definitions of Vegetation Strata: Tree - Woody plants 3 in. (.76 cm) or more in diameter 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.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				
Hydrophytic Vegetation Present? _____				
Remarks: (include photo numbers here or on a separate sheet.)				
The vegetation consists of a sparse canopy of quaking aspen and a dense shrub layer dominated by aspen saplings and red-osier dogwood. Bracken fern is dominant in the herb layer.				

