

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP City/County: Clearwater Sampling Date: 2015-07-08
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: CL004e1U
 Investigator(s): KRG/JRT Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): talf Local Relief (concave, convex, none): LL Slope (%): 0-2
 Subregion (LRR or MLRA): _____ Latitude: 47.716861981943 Longitude: -95.56023831... Datum: Minnesota State ...
 Soil Map Unit Name: 765 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>Yes</u>		
Wetland Hydrology Present?	<u>No</u>		
Remarks: (Explain alternative procedures here or in a separate report.) The upland point is located in an untilled buffer strip between a crop field and a roadside ditch. Vegetation is dominated by smooth brome and other g...			

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"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Stunted/Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Microtopographic Relief (D4)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Aquatic Fauna (B13)	
<input type="checkbox"/> Marl Deposits (B15)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:		Wetland Hydrology Present?	<u>No</u>
Surface Water Present?	<u>No</u> Depth (inches) _____		
Water Table Present?	<u>No</u> Depth (inches) _____		
Saturation Present? (includes capillary fringe)	<u>No</u> Depth (inches) _____		

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

Remarks:
 No wetland hydrology indicators were observed.

VEGETATION - Use scientific names of plants.

Sampling Point: CL004e1U

	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>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
0 _____ = Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0.00</u> x 1 <u>0</u> FACW species <u>34.00</u> x 2 <u>68</u> FACU species <u>0.00</u> x 3 <u>128</u> UPL species <u>47.00</u> x 4 <u>235</u> Column Totals <u>113</u> (A) <u>431</u> (B) Prevalence Index = B/A = <u>3.8141592...</u>
Sapling/Shrub Stratum (Plot Size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
0 _____ = Total Cover				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.
Herb Stratum (Plot Size: <u>5 ft</u>)				
1. <u>Bromus inermis</u>	<u>45.00</u>	<u>Yes</u>	<u>UPL</u>	
2. <u>Poa palustris</u>	<u>20.00</u>	<u>No</u>	<u>FACW</u>	
3. <u>Poa pratensis</u>	<u>20.00</u>	<u>No</u>	<u>FACU</u>	
4. <u>Carex granularis</u>	<u>10.00</u>	<u>No</u>	<u>FACW</u>	
5. <u>Solidago canadensis</u>	<u>5.00</u>	<u>No</u>	<u>FACU</u>	
6. <u>Symphotrichum ericoides</u>	<u>5.00</u>	<u>No</u>	<u>FACU</u>	
7. <u>Melilotus officinalis</u>	<u>2.00</u>	<u>No</u>	<u>FACU</u>	
8. <u>Solidago gigantea</u>	<u>2.00</u>	<u>No</u>	<u>FACW</u>	
9. <u>Cornus alba</u>	<u>2.00</u>	<u>No</u>	<u>FACW</u>	
10. <u>Apocynum androsaemifolium</u>	<u>2.00</u>	<u>No</u>	<u>UPL</u>	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
113 _____ = Total Cover				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.
Woody Vine Stratum (Plot Size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
0 _____ = Total Cover				Hydrophytic Vegetation Present? _____
Remarks: (include photo numbers here or on a separate sheet.)				
Vegetation is dominated by smooth brome with Kentucky bluegrass and fowl bluegrass also common.				

