

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Carlton Sampling Date: 5/19/2014
 Applicant/Owner: Enbridge State: MN Sampling Point CR144a2W
 Investigator(s): DGL/CPF Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): CL
 Slope (%): 0 - 2% Lat.: 46.603268 Long.: -92.352687 Datum: WGS1984
 Soil Map Unit Name: 303E 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 consists of a wet meadow fringing a small stream within an existing pipeline corridor. Sparse plantings of red-osier dogwood were observed.	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<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)	<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 <input type="checkbox"/> (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: The area supports hydrophytic vegetation and borders a stream.	

VEGETATION - Use scientific names of plants

Sampling Point: CR144a2W

Tree Stratum	Plot Size (30)	Absolute % Cover	Dominant Species	Indicator Status																	
1					50/20 Thresholds <table style="width:100%; border-collapse: collapse;"> <tr> <td></td><td style="text-align: right;">20%</td><td style="text-align: right;">50%</td></tr> <tr> <td>Tree Stratum</td><td style="text-align: right;">0</td><td style="text-align: right;">0</td></tr> <tr> <td>Sapling/Shrub Stratum</td><td style="text-align: right;">1</td><td style="text-align: right;">3</td></tr> <tr> <td>Herb Stratum</td><td style="text-align: right;">18</td><td style="text-align: right;">45</td></tr> <tr> <td>Woody Vine Stratum</td><td style="text-align: right;">0</td><td style="text-align: right;">0</td></tr> </table>			20%	50%	Tree Stratum	0	0	Sapling/Shrub Stratum	1	3	Herb Stratum	18	45	Woody Vine Stratum	0	0
	20%	50%																			
Tree Stratum	0	0																			
Sapling/Shrub Stratum	1	3																			
Herb Stratum	18	45																			
Woody Vine Stratum	0	0																			
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10		0 = Total Cover																			
					Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC: <u>3</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>100.00%</u> (A/B)																
Sapling/Shrub Stratum	Plot Size (15)	Absolute % Cover	Dominant Species	Indicator Status																	
1	<i>Cornus alba</i>	5	Y	FACW	Prevalence Index Worksheet Total % Cover of: OBL species $\frac{25}{55} \times 1 = \frac{25}{110}$ FACW species $\frac{55}{55} \times 2 = \frac{110}{110}$ FAC species $\frac{0}{0} \times 3 = \frac{0}{0}$ FACU species $\frac{15}{15} \times 4 = \frac{60}{60}$ UPL species $\frac{0}{0} \times 5 = \frac{0}{0}$ Column totals <u>95</u> (A) <u>195</u> (B) Prevalence Index = B/A = <u>2.05</u>																
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10		5 = Total Cover																			
					Hydrophytic Vegetation Indicators: <input type="checkbox"/> Rapid test for hydrophytic vegetation <input checked="" type="checkbox"/> Dominance test is >50% <input checked="" type="checkbox"/> 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																
Herb Stratum	Plot Size (5)	Absolute % Cover	Dominant Species	Indicator Status																	
1	<i>Phalaris arundinacea</i>	45	Y	FACW	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? <u>Y</u>																
2	<i>Scirpus microcarpus</i>	20	Y	OBL																	
3	<i>Poa compressa</i>	10	N	FACU																	
4	<i>Thalictrum dasycarpum</i>	5	N	FACW																	
5	<i>Tanacetum vulgare</i>	5	N	FACU																	
6	<i>Ranunculus sceleratus</i>	5	N	OBL																	
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15		90 = Total Cover																			
Woody Vine Stratum	Plot Size (30)	Absolute % Cover	Dominant Species	Indicator Status																	
1																					
2																					
3																					
4																					
5																					
10		0 = Total Cover																			
Remarks: (Include photo numbers here or on a separate sheet)																					
The area is dominated by reed canary grass and <i>Scirpus microcarpus</i> . Plantings of red-osier dogwood are present in the shrub layer.																					

