

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Hubbard Sampling Date: 6/14/2014
 Applicant/Owner: Enbridge State: MN Sampling Point: HUC5072a3U
 Investigator(s): BCS/BEH Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Shoulder Local relief (concave, convex, none): VV
 Slope (%): 3 - 7% Lat.: 47.0581095 Long.: -95.14240633 Datum: _____
 Soil Map Unit Name: 797 NWI Classification: PFO1C
 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> Hydric soil present? <u> N </u> Indicators of wetland hydrology present? <u> N </u>	Is the sampled area within a wetland? <u> N </u> If yes, optional wetland site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) The sample point is located on an upland rise within a large, forested wetland complex. Vegetation is dominated by quaking aspen.	

HYDROLOGY

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 <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)	Secondary Indicators (minimum of two required) <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 or 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? 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> N </u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No primary or secondary wetland hydrology indicators were observed.	

VEGETATION - Use scientific names of plants

Sampling Point:

HUC5072a3U

Tree Stratum				Plot Size (30 ft)																	
	Absolute % Cover	Dominant Species	Indicator Status																		
1	70	Y	FAC	50/20 Thresholds <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>20%</td> <td>50%</td> </tr> <tr> <td>Tree Stratum</td> <td>15</td> <td>37</td> </tr> <tr> <td>Sapling/Shrub Stratum</td> <td>6</td> <td>15</td> </tr> <tr> <td>Herb Stratum</td> <td>12</td> <td>30</td> </tr> <tr> <td>Woody Vine Stratum</td> <td>0</td> <td>0</td> </tr> </table>				20%	50%	Tree Stratum	15	37	Sapling/Shrub Stratum	6	15	Herb Stratum	12	30	Woody Vine Stratum	0	0
	20%	50%																			
Tree Stratum	15	37																			
Sapling/Shrub Stratum	6	15																			
Herb Stratum	12	30																			
Woody Vine Stratum	0	0																			
2	3	N	FACW																		
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
<u>73</u> = Total Cover				Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across all Strata: <u>5</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>40.00%</u> (A/B)																	
Sapling/Shrub Stratum							Plot Size (15 ft)														
	Absolute % Cover	Dominant Species	Indicator Status																		
1	10	Y	FACU				Prevalence Index Worksheet Total % Cover of: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>8</u> x 2 = <u>16</u> FAC species <u>90</u> x 3 = <u>270</u> FACU species <u>35</u> x 4 = <u>140</u> UPL species <u>15</u> x 5 = <u>75</u> Column totals <u>148</u> (A) <u>501</u> (B) Prevalence Index = B/A = <u>3.39</u>														
2	10	Y	FAC																		
3	5	N	FACU																		
4	5	N	FAC																		
5																					
6																					
7																					
8																					
9																					
10																					
<u>30</u> = Total Cover				Hydrophytic Vegetation Indicators: <input type="checkbox"/> Rapid test for hydrophytic vegetation <input type="checkbox"/> Dominance test is >50% <input type="checkbox"/> Prevalence index is ≤3.0* <input type="checkbox"/> Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																	
Herb Stratum							Plot Size (5 ft)														
	Absolute % Cover	Dominant Species	Indicator Status																		
1	15	Y	NI				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.														
2	15	Y	UPL																		
3	5	N	FACW																		
4	5	N	FAC																		
5	5	N	FACU																		
6	5	N	FACU																		
7	5	N	FACU																		
8	5	N	FACU																		
9																					
10																					
11																					
12																					
13																					
14																					
15																					
<u>60</u> = Total Cover				Hydrophytic vegetation present? <u>N</u>																	
Woody Vine Stratum							Plot Size (30 ft)														
	Absolute % Cover	Dominant Species	Indicator Status																		
1																					
2																					
3																					
4																					
5																					
<u>0</u> = Total Cover																					

Remarks: (Include photo numbers here or on a separate sheet)
 The upland sample point is dominated by quaking aspen in the tree stratum; beaked hazelnut and quaking aspen are the dominant shrubs/saplings; the understory is dominated by Pennsylvania sedge and large-leaf aster.

