

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Carlton Sampling Date: 5/27/2014
 Applicant/Owner: Enbridge State: MN Sampling Point: CRR51010_627a3W
 Investigator(s): KJA/JRT Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): CL
 Slope (%): 0 - 2% Lat.: 46.618186 Long.: -92.517291 Datum: _____
 Soil Map Unit Name: 534 NWI Classification: PFO
 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 sample point is located in a forested wetland dominated by black ash, black spruce, and tamarack.	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
☐ Surface Water (A1) ☒ High Water Table (A2) ☒ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8)	☐ Water-Stained Leaves (B9) ☐ Aquatic Fauna (B13) ☐ Marl Deposits (B15) ☐ Hydrogen Sulfide Odor (C1) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Presence of Reduced Iron (C4) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Thin Muck Surface (C7) ☐ Other (Explain in Remarks)	☐ Surface Soil Cracks (B6) ☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16) ☐ Dry-Season Water Table (C2) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Stunted or Stressed Plants (D1) ☐ Geomorphic Position (D2) ☐ Shallow Aquitard (D3) ☐ Microtopographic Relief (D4) ☒ FAC-Neutral Test (D5)	
Field Observations: Surface water present? Yes ☐ Water table present? Yes ☒ Saturation present? Yes ☒ (includes capillary fringe)		Depth (inches): _____ Depth (inches): <u>2</u> Depth (inches): <u>0</u>	
		Indicators of wetland hydrology present? <u>Y</u>	
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Hydrology indicators include a high water table at 2 inches and saturation at the surface.			

VEGETATION - Use scientific names of plants
Sampling Point:

CRR51010_627a3W

Tree Stratum			Absolute % Cover	Dominant Species	Indicator Status
1	<i>Fraxinus nigra</i>	30 ft	35	Y	FACW
2	<i>Picea mariana</i>		20	Y	FACW
3	<i>Larix laricina</i>		15	N	FACW
4	<i>Abies balsamea</i>		10	N	FAC
5					
6					
7					
8					
9					
10					
			80	= Total Cover	

Sapling/Shrub Stratum			Absolute % Cover	Dominant Species	Indicator Status
1	<i>Alnus incana</i>	15 ft	45	Y	FACW
2					
3					
4					
5					
6					
7					
8					
9					
10					
			45	= Total Cover	

Herb Stratum			Absolute % Cover	Dominant Species	Indicator Status
1	<i>Caltha palustris</i>	5 ft	25	Y	OBL
2	<i>Calamagrostis canadensis</i>		25	Y	OBL
3	<i>Anemone quinquefolia</i>		10	N	FACU
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
			60	= Total Cover	

Woody Vine Stratum			Absolute % Cover	Dominant Species	Indicator Status
1		30 ft			
2					
3					
4					
5					
			0	= Total Cover	

50/20 Thresholds

	20%	50%
Tree Stratum	16	40
Sapling/Shrub Stratum	9	23
Herb Stratum	12	30
Woody Vine Stratum	0	0

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across all Strata: 5 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	<u>50</u> x 1 =	<u>50</u>
FACW species	<u>115</u> x 2 =	<u>230</u>
FAC species	<u>10</u> x 3 =	<u>30</u>
FACU species	<u>10</u> x 4 =	<u>40</u>
UPL species	<u>0</u> x 5 =	<u>0</u>
Column totals	<u>185</u> (A)	<u>350</u> (B)
Prevalence Index = B/A =		<u>1.89</u>

Hydrophytic Vegetation Indicators:

☒ Rapid test for hydrophytic vegetation

☒ Dominance test is >50%

☒ 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

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? Y

Remarks: (Include photo numbers here or on a separate sheet)

The area is dominated by black ash, black spruce and tamarack in the overstory. Speckled alder is very common in the shrub layer. Marsh marigold and Canada bluejoint dominate the ground layer.

SOIL

Sampling Point: CRR51010_627a3W

[illegible]