

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Carlton Sampling Date: 5/29/2014
Applicant/Owner: Enbridge State: MN Sampling Point: CRR51010_612a8U
Investigator(s): LEB/CPF Section, Township, Range: _____
Landform (hillslope, terrace, etc.): Rise Local relief (concave, convex, none): VV
Slope (%): 0 - 2% Lat.: 46.597906 Long.: -92.568602 Datum: _____
Soil Map Unit Name: 536 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> 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 point is on a slight rise between I-35 and a large wetland complex. Vegetation is dominated by balsam fir, American hazelnut, and Canada mayflower.	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Water (A1) ☐ Water-Stained Leaves (B9) ☐ High Water Table (A2) ☐ Aquatic Fauna (B13) ☐ Saturation (A3) ☐ Marl Deposits (B15) ☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1) ☐ Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Drift Deposits (B3) ☐ Presence of Reduced Iron (C4) ☐ Algal Mat or Crust (B4) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Iron Deposits (B5) ☐ Thin Muck Surface (C7) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) ☐ Sparsely Vegetated Concave Surface (B8)			Secondary Indicators (minimum of two required) ☐ 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>15</u> Depth (inches): _____		Indicators of wetland hydrology present? <u>N</u>	
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						
Remarks: A deep water table was observed; however, no wetland hydrology indicators were met.						

VEGETATION - Use scientific names of plants
Sampling Point:

CRR51010_612a8U

Tree Stratum			Plot Size (30 ft)			Absolute % Cover	Dominant Species	Indicator Status
1	<i>Abies balsamea</i>		65	Y	FAC			
2	<i>Larix laricina</i>		15	N	FACW			
3	<i>Populus tremuloides</i>		10	N	FAC			
4								
5								
6								
7								
8								
9								
10								
			90	= Total Cover				

Sapling/Shrub Stratum			Plot Size (15 ft)			Absolute % Cover	Dominant Species	Indicator Status
1	<i>Corylus americana</i>		15	Y	FACU			
2								
3								
4								
5								
6								
7								
8								
9								
10								
			15	= Total Cover				

Herb Stratum			Plot Size (5 ft)			Absolute % Cover	Dominant Species	Indicator Status
1	<i>Maianthemum canadense</i>		45	Y	FACU			
2	<i>Equisetum sylvaticum</i>		10	N	FACW			
3	<i>Luzula acuminata</i>		10	N	FACU			
4	<i>Corylus cornuta</i>		5	N	FACU			
5	<i>Vaccinium angustifolium</i>		5	N	FACU			
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
			75	= Total Cover				

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

50/20 Thresholds

	20%	50%
Tree Stratum	18	45
Sapling/Shrub Stratum	3	8
Herb Stratum	15	38
Woody Vine Stratum	0	0

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across all Strata: 3 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 33.33% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	0	x 1 =	0
FACW species	25	x 2 =	50
FAC species	75	x 3 =	225
FACU species	80	x 4 =	320
UPL species	0	x 5 =	0
Column totals	180	(A)	595 (B)

Prevalence Index = B/A = 3.31

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 in height.

Woody vines - All woody vines greater than 3.28 ft in height.

Hydrophytic vegetation present? N

Remarks: (Include photo numbers here or on a separate sheet)
 The vegetation is dominated by balsam fir with an understory of mesic forest species.

SOIL

Sampling Point: CRR51010_612a8U

[illegible]