

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP City/County: Clearwater Sampling Date: 2016-06-21
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: w-149n38w17-ac1
 Investigator(s): DPT, ZCW Section, Township, Range: S17, T149N, R38W
 Landform (hillslope, terrace, etc.): Depression Local Relief (concave, convex, none): CC Slope (%): 0-2%
 Subregion (LRR or MLRA): _____ Latitude: 47.7175998408... Longitude: -95.54959698... Datum: NAD83
 Soil Map Unit Name: 180 NWI Classification: N/A
 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>Yes</u>	Is the Sampled Area within a Wetland?	
Hydric Soil Present?	<u>Yes</u>		<u>Yes</u>
Wetland Hydrology Present?	<u>Yes</u>		If yes, optional Wetland Site ID: <u>w-149n38w17-ac</u>
Remarks: (Explain alternative procedures here or in a separate report.)			

HYDROLOGY

Wetland Hydrology Indicators:	<u>Secondary Indicators (minimum of two required)</u>
<u>Primary Indicators (minimum of one is required; check all that apply)</u>	
<u>yes</u> Surface Water (A1)	<u> </u> Surface Soil Cracks (B6)
<u> </u> Water-Stained Leaves (B9)	<u> </u> Drainage Patterns (B10)
<u>yes</u> High Water Table (A2)	<u> </u> Moss Trim Lines (B16)
<u> </u> Aquatic Fauna (B13)	<u> </u> Dry-Season Water Table (C2)
<u>yes</u> Saturation (A3)	<u> </u> Crayfish Burrows (C8)
<u> </u> Marl Deposits (B15)	<u> </u> Saturation Visible on Aerial Imagery (C9)
<u> </u> Water Marks (B1)	<u> </u> Stunted/Stressed Plants (D1)
<u> </u> Hydrogen Sulfide Odor (C1)	<u>YES</u> Geomorphic Position (D2)
<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u> </u> Shallow Aquitard (D3)
<u> </u> Presence of Reduced Iron (C4)	<u> </u> Microtopographic Relief (D4)
<u> </u> Recent Iron Reduction in Tilled Soils (C6)	<u>YES</u> FAC-Neutral Test (D5)
<u> </u> Thin Muck Surface (C7)	
<u> </u> Other (Explain in Remarks)	
<u> </u> Sparsely Vegetated Concave Surface (B8)	

Field Observations:		Wetland Hydrology Present?	<u>Yes</u>
Surface Water Present?	<u>Yes</u>	Depth (inches)	<u>3</u>
Water Table Present?	<u>Yes</u>	Depth (inches)	<u> </u>
Saturation Present? (includes capillary fringe)	<u>Yes</u>	Depth (inches)	<u> </u>

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

Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point: w-149n38...

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot Size: <u>30</u>)				Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species
2. _____	_____	_____	_____	That Are OBL, FACW, or FAC: <u>2</u> (A)
3. _____	_____	_____	_____	Total Number of Dominant
4. _____	_____	_____	_____	Species Across All Strata: <u>3</u> (B)
5. _____	_____	_____	_____	Percent of Dominant Species
6. _____	_____	_____	_____	That Are OBL, FACW, or FAC: <u>66.6666666666...</u> (A/B)
7. _____	_____	_____	_____	Prevalence Index worksheet:
	<u>0</u> = Total Cover			Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot Size: <u>15</u>)				OBL species <u>0.00</u> x 1 <u>0</u>
1. _____	_____	_____	_____	FACW species <u>40.00</u> x 2 <u>80</u>
2. _____	_____	_____	_____	FACU species <u>35.00</u> x 3 <u>140</u>
3. _____	_____	_____	_____	UPL species <u>0.00</u> x 4 <u>0</u>
4. _____	_____	_____	_____	Column Totals <u>100</u> (A) <u>295</u> (B)
5. _____	_____	_____	_____	Prevalence Index = B/A = <u>2.95</u>
6. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:
7. _____	_____	_____	_____	_____ 1 - Rapid Test for Hydrophytic Vegetation
	<u>0</u> = Total Cover			<u>yes</u> 2 - Dominance Test is > 50%
Herb Stratum (Plot Size: <u>5</u>)				<u>yes</u> 3 - Prevalence Index is ≤ 3.0 ¹
1. <i>Poa palustris</i>	40.00	Yes	FACW	_____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2. <i>Taraxacum officinale</i>	20.00	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3. <i>Rumex crispus</i>	20.00	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. <i>Trifolium pratense</i>	10.00	No	FACU	Definitions of Vegetation Strata:
5. <i>Erigeron annuus</i>	5.00	No	FACU	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.
6. <i>Solidago gigantea</i>	5.00	No	FAC	Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
7. _____	_____	_____	_____	Herb - All herbaecous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
8. _____	_____	_____	_____	Woody vines - All woody vines greater than 3.28 ft in height.
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	<u>100</u> = Total Cover			Hydrophytic Vegetation Present? <u>Yes</u>
Woody Vine Stratum (Plot Size: <u>30</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u> = Total Cover			
Remarks: (include photo numbers here or on a separate sheet.)				

Site Photograph 1

Sampling Point: w-149n38w17-ac1



Latitude: 47.7175996732411

Cowardin Classification: PEM

Longitude: -95.5495974049862

Circular 39: 1

Direction: north

Eggers & Reed: Seasonally Flooded Basin

Remarks:

Empty rectangular box for remarks.

Site Photograph 2

Sampling Point: w-149n38w17-ac1



Latitude: 47.7175959852037

Cowardin Classification: PEM

Longitude: -95.5496030208613

Circular 39: 1

Direction: west

Eggers & Reed: Seasonally Flooded Basin

Remarks: